SD-25800-01

SHEET INDEX (INITIATED ON ISSUE 51D)

CONTENTS		SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
SHEET INDEX	"A" SHEETS SUPPORTING INFORMATION	A1	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	RESERVED	A2																										
	B SHEETS	A3	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
		A4	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
		A5	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	RESERVED	A6																										
	C SHEETS	A7	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
		A8	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	RESERVED	A9																										
	D SHEETS	A10	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
		A11	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
		A12	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	RESERVED	A13																										
	E SHEETS	A14	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	RESERVED	A15																										
		A16																										
	F SHEETS	A17	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	G SHEETS	A18	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
		A19	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	RESERVED	A20																										
		A21																										
APPARATUS INDEX		A22	82	83	84	85	86	86	88	88	90	90	90	93	93	93	93	97	98	99	100	101	101	101	101	101	106	107
		A23	82	83	83	85	86	86	88	88	88	88	88	93	93	93	96	96	98	99	99	99	102	102	102	102	102	102
		A24	82	83	84	85	86	86	86	89	90	90	90	93	93	95	96	97	98	99	99	99	102	102	102	102	102	102
	RESERVED	A25																										
		A26	82	83	83	85	86	86	88	89	90	90	90	93	93	95	96	97	98	99	100	101	101	103	104	104	106	107
		A27	82	82	84	84	86	87	88	89	90	91	91	91	91	95	96	97	98	99	99	101	102	102	104	104	104	104
		A28	82	83	84	85	86	86	88	88	90	90	90	90	90	90	90	98	98	98	98	98	98	98	98	98	98	98
		A29	82	82	82	85	85	85	85	85	85	85	85	85	85	85	96	96	98	98	98	98	98	98	98	98	98	98
LEAD INDEX		A30	82	82	82	85	86	87	87	87	87	87	87	87	87	87	95	95	97	98	98	98	98	98	98	104	104	104
		A31	82	82	82	82	86	87	88	88	89	89	89	89	89	89	89	89	89	89	89	89	101	102	102	102	102	102
		A32	82	82	84	85	86	86	88	89	90	90	90	93	94	94	96	96	96	96	96	96	102	102	104	104	104	104
		A33	82	82	84	85	85	85	88	89	89	89	89	89	89	89	89	97	98	98	98	98	98	98	98	98	98	98
		A34	82	83	83	83	86	86	88	89	89	89	89	89	89	89	96	96	98	99	99	99	99	99	99	99	106	106
		A35	82	83	84	85	86	87	88	89	90	91	91	91	93	93	95	96	96	98	99	99	101	101	103	103	103	103
		A36A*	82	83	84	85	86	87	88	89	90	90	90	90	90	90	90	90	97	98	99	100	100	100	103	104	104	106
		A36B							88	89	90	90	90	90	94	94	96	97	98	99	99	99	99	103	103	103	106	106
		A37	82	83	84	85	86	87	88	89	89	89	89	89	89	89	89	96	96	98	98	98	98	98	98	98	98	98
		A38	82	83	84	85	86	87	88	89	89	89	89	89	89	94	95	96	96	98	99	100	100	100	100	104	104	104
		A39	82	83	84	85	86	87	88	89	90	90	90	93	93	93	93	95	98	99	97	99	99	99	99	99	99	99
		A40							88	89	90	90	90	90	94	94	94	94	98	99	99	101	101	101	101	105	105	105
		A41															96	97	98	99	99	101	102	103	104	104	106	107
		A42	82	83	84	85	86	87	88	89	90	91	91	91	91	95	96	96	98	99	100	100	100	100	100	100	100	100
		A43	82	83	84	85	86	87	88	89	90	91	91	93	93	95	96	96	98	99	100	101	102	103	104	104	106	106
	RESERVED	A44																										
OPTION INDEX		A45	82	83	84	85	86	87	88	89	90	91	91	93	93	95	96	97	98	99	99	101	101	103	103	103	103	103
		A46	82	82	82	85	86	87	87	87	90	91	91	91	91	91	96	97	98	99	99	99	99	103	103	103	103	103
		A47	82	83	84	85	85	85	85	89	89	91	91	93	94	95	96	97	98	99	99	99	99	99	99	99	99	99
		A48	82	82	84	85	85	87	88	88	90	90	90	93	93	95	96	97	98	99	99	101	102	102	102	102	102	102
		A49	82	82	82	85	85	85	88	88	88	91	91	93	94	94	96	97	98	99	99	101	102	103	104	105	106	106
		A50	82	82	82	82	82	82	82	82	82	82	82	93	93	93	96	97	97	97	97	97	97	97	97	97	97	97
		A51	82	82	84	85	85	87	88	88	88	91	91	91	91	95	96	97	98	99	99	101	101	101	101	101	101	107
		A52	82	83	84	85	85	85	88	88	88	88	88	88	93	93	93	96	96	98	99	99	99	107	102	104	104	104
		A53	82	83	84	85	86	87	88	89	89	91	92	93	94	95	96	97	98	99	100	100	102	103	103	103	103	103
		A54	82	83	84	85	86	87	88	89	90	91	92	92	92	95	96	96	98	99	100	101	102	103	104	104	104	107
		A55	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	106	106	107
		A56																		99	100	101	102	103	104	105	106	107

* SHEETS WITH SUFFIX LETTER A WERE FORMERLY WITHOUT SUFFIX LETTER.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWINGS	J23252BW-( )
FRAME EQUIPMENT	J23252AJ-( )
APP FIG 1,2,22,24,3' & N	J23255G-( )
APP FIG.1,4,14,140,149	J23255BD-( )
APP FIG 3,6,9,60,77,97 & K	J23255H-( )
APP FIG 4 & 5	J23255B-( )
APP FIG 6,7,23 & M	J23255C-( )
APP FIG 9,10,V & 99	J23255D-( )
APP FIG 11,12 & 13	J23255E-( )
APP FIG 14 & 58	J23255F-( )
APP FIG 7,15,32,34,76,86&94	J23255A-( )
APP FIG 16,17,& 159	J23255M-( )
APP FIG 20,30,125,& 161	J23255K-( )
APP FIG 25 &26	J23255R-( )
APP FIG 27,29 & 39	J23255S-( )
APP FIG 35,36 & X	J23255L-( )
APP FIG 7,38 & 89	J23255T-( )
APP FIG 40,41,42,44,45,46, 48,64,93,100,Q & R	J23255U-( )
APP FIG 106 & 118	J23252AZ-( )
APP FIG 120	J23252BC-( )
APP FIG 122	J23258AA-( )
APP FIG B	J23255J-( )
APP FIG F	J23255W-( )
APP FIG H	J23255P-( )
APP FIG 49 & 117	J23255V-( )
APP FIG 55 & 56	J23255X-( )
APP FIG 49,59,62, & 110	J23255AA-( )
APP FIG 122	J23258AA-( )
APP FIG 87	J23255AC-( )
APP FIG 90	J23255AD-( )
APP FIC 94	J23255AE-( )
APP FIG 98	J23255AF-( )
APP FIG 99 & 114	J23255AG-( )
APP FIG 101	J23255AJ-( )
APP FIG 102	J23255AH-( )
APP FIC 93 & 100	J23255Y-( )
APP FIG 60,105,109,108 & M	J23255AL-( )
APP FIG 86	J23255AM-( )
APP FIG 107	J23255AK-( )
APP FIG 111	J23255AN-( )
APP FIG 11,114,174,175	J23255AP-( )
APP FIG 127	J23255AR-( )
APP FIG 20,30	J23255AS-( )
APP FIG 1	J23255AT-( )
APP FIG 135,136	J23255AU-( )
APP FIG 135	J23255AV-( )
APP FIG 136	J23255AW-( )
APP FIG 139	J23255AY-( )
APP FIG 139,14	J23255BA-( )
APP FIG 14a	J23255BB-( )
APP FIG 151,152	J23255BC-( )
APP FIG 154	J23255BE-( )
APP FIG 1	J23255BF-( )
APP FIG 39	J23256B-( )
APP FIG 137	J27964KH-( )
APP FIG 127	J23255BG-( )
APP FIG 158	23255BH-( )
APP FIG.160	J23255BJ-( )
APP FIG. 167,168	J23255BK-( )
APP FIG. 156	23252CD-( )
APP FIG. 171	J23255BL-( )
APP FIG. 173	J23255BM-( )
EQUIPMENT DESIGN REQUIREMENTS SEE NOTE 201 (A&M ONLY)	J23252 J23255

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND BROUGHT UP TO DATE EACH TIME ANY SHEET OF THE DRAWING IS REISSUED, OR A NEW SHEET IS ADDED.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.

DWG ISSUE	CD ISSUE	DWG ISSUE	CD ISSUE	DWG ISSUE	CD ISSUE
1	1	2A	2A	3AR	3AR
9D	3AR APP 1D	5A	4A	6D	4AR APP 1D
7A	4A APP 2A	8D	4A APP 3D	9D	5D
10AR	5D APP 1AR	11D	6D	12B	6D APP 1B
13D	6D APP 2D	14B	6D APP 3D	15D	6D APP 4D
16D	7D	17B	7D APP 1B	18D	7D APP 2D
19AR	7D APP 3AR	20B	7D APP 4D	21D	7D APP 5D
22D	8D	23B	8D APP 1B	24AR	8D APP 2AR
25A	8D APP 3A	26D	8D APP 4D	27A	8D APP 5A
28D	9D APP 6D	29A	9D APP 7A	30B	9D APP 8A
31B	9D APP 9B	32D	9D APP 10D	33A	9D APP 11A
34A	9D APP 12A	35D	9D APP 13D	36A	9D APP 14A
37D	9D APP 15D	38A	9D APP 16A	38B	9D APP 17B
40D	9D APP 18D	41D	9D APP 19D	42AR	9D APP 20AR
43D	9D APP 21D	44AC	9D APP 22AC	45A	9D APP 23A
46AR	9D APP 24AR	47AR	9D APP 25AR	48D	9D APP 26D
49B	9D APP 27B	50AR	9D APP 28AR	51D	9D
52A	9D APP 1A	53D	9D APP 2D	54B	9D APP 3B
55A	9D APP 4A	56D	9D APP 5D	57A	9D APP 6A
58D	9D APP 7D	59A	9D APP 8A	60D	9D APP 9D
61A	9D APP 10A	62D	9D APP 11D	63D	9D APP 12D
64A	9D APP 13A	65D	9D APP 14D	66A	9D APP 15A
67D	10D	68A	10D APP 1A	69D	10D APP 2D
70A	10D APP 3A	71D	10D APP 4D	72A	10D APP 5A
73D	10D APP 6D	74A	10D APP 7A	75B	10D APP 8B
76D	10D APP 9D	77A	10D APP 10A	78D	10D APP 11D
79A	10D APP 12A	80D	11D	81A	11D APP 1A

DWG ISSUE	SIZE OR CD ISSUED	DATE ISSUED		APPD
82D	11 APP 2D	7/26/71	GEL ASC	EDP DAJ TNJ CB
83A	11 APP 3A	7/26/71	GEL ASC	EDP DAJ TNJ CB
84D	11D APP 4D	3-15-72	DP RA	EDP DAJ TNJ CB
85A	11D APP 5A	3-15-72	DP RA	EDP DAJ TNJ CB
86D	11D APP 6D	8-1-72	JRB XWZ	EDP DAJ EDM CB
87A	11D APP 7A	8-1-72	JRB XWZ	EDP DAJ CAM CB
88D	12D	7-18-73	GM ASC	EDP DAJ EDM CB
89A	12D APP 1A	7-18-73	GM ASC	EDP DAJ EDM CB
90D	12D APP 2D	3-20-74	CDI DP	EDP DAJ EDM CB
91A	12D APP 3A	3-20-74	CDI DP	EDP DAJ EDM CB
92D	12D APP 4D	9-20-74	CDI KBG	HB DAJ TNJ CB
93A	12D APP 5A	9-20-74	CDI KBG	HB DAJ TNJ CB
94D	12D APP 6D	5-8-75	CDI DAP	HB DAJ TNJ CB
95A	12D APP 7A	5-8-75	CDI DAP	HB DAJ TNJ CB
96B	12D APP 8B	6-27-76	CDI GAS	HB DAJ TNJ CB
97A	12D APP 9A	6-27-76	CDI GAS	HB DAJ TNJ CB
98B	138	1-11-77	CDI GAS	HB DAJ TNJ CB
99A	138 APP 1A	1-11-77	CDI GAS	HB DAJ TNJ CB
100B	138 APP 2B	10-4-77	CDI LR	HB DAJ RCA CB
101A	138 APP 3A	11-4-77	CDI LR	HB DAJ RCA CB
102B	138 APP 4B	3-21-78	CDI KRF	HB DAJ RCA CB
103A	138 APP 5A	3-21-78	CDI KRF	HB DAJ RCA CB
104B	138 APP 6B	2-2-79	CDI KMS	HB DAJ RCA CB
105A	138 APP 7A	2-2-79	CDI KMS	HB DAJ RCA CB
106B	138 APP 8B	2-20-80	CDI PPC TNC	HB DAJ TNJ CB
107A	138 APP 9A	2-20-80	CDI PPC TNC	HB DAJ RM CB

NOTICE- NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

REPLACED BY SD-27997-01 FOR ACD USAGE

ISSUE 107A

1C02

CROSSBAR SYSTEMS

NO. 5
MASTER TEST CONTROL CIRCUIT

(MT CONT) 2

AT&TCO STANDARD

SD-25800-01-A1

663 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
FS 1A TEST START	B14A*	90	90	90	90	90	90	96	96	98	98	98	98	98	98	98	98	98	98							
FS 1B KEY RELEASE	B18	90	90	90	90	90	90	96	96	98	98	98	98	98	98	98	98	98	98							
FS 2A, FS 2B, FS 2C, FS 2D — TEST CLASS SELECTION	B20*	80	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91							
	B28	88	88	88	88	88	88	88	97	98	98	98	98	102	102	102	102	102	102							
	B30*	85	85	85	85	85	85	85	97	97	97	97	97	102	102	102	102	102	102							
	B3E	78	78	78	78	78	78	78	78	98	99	99	101	101	101	101	101	101	101							
FS 3A CLASS OF TEST LAMPS; FS 3B START TEST LAMP	B40*	87	87	87	87	87	87	87	87	98	98	98	98	98	98	98	98	98	98							
FS 4 AUXILIARY TEST CLASS RELAYS	B48	90	90	90	90	90	90	96	96	98	98	98	101	101	103	103	103	103	103							
FS 5A, FS 5B — PREFERENCE	B50*	90	91	91	93	93	93	93	93	98	99	99	99	99	99	104	104	104	104							
FS 5C — PREFERENCE	B58	89	91	91	91	91	91	91	91	98	98	98	98	98	98	98	98	98	98							
FS 5D — PREFERENCE	B5C	87	87	87	93	93	93	96	96	98	98	98	98	98	98	98	98	106	106							
FS 5E — PREFERENCE	B5D	90	90	90	93	93	95	96	96	96	96	96	96	96	96	96	96	106	106							
FS 6A, FS 6B — TEST CONTROL	B6A*	86	86	86	86	86	86	86	86	98	98	100	100	100	100	100	100	100	100							
	B68	90	91	91	93	94	94	96	96	98	99	99	99	99	99	99	99	99	99							
FS 7A MASTER TEST FRAME CONNECTOR PREFERENCE START	B7A*	90	90	90	90	90	90	90	90	98	98	98	98	98	98	98	98	98	98							
FS 7B TRANSVERTER, AND PRETRANSLATOR SELECTION	B7B	82	82	82	82	82	82	82	97	98	98	98	98	98	98	98	98	98	107							
FS 7C MARKER SELECTION	B7C	88	88	88	88	88	88	88	88	98	98	98	98	98	98	98	98	98	98							
FS 9 OPERATION OF MARKER TEST RELAYS	B8A*	89	91	91	91	91	91	91	91	98	99	99	101	101	103	103	103	103	107							
FS 8 TEST CONNECTOR RELAYS	B8B	85	85	85	85	85	85	85	85	98	99	99	99	99	99	99	99	99	99							
	B8C	90	90	90	93	93	93	96	96	96	96	96	96	96	96	96	96	96	96							
	B8D									98	99	99	101	102	102	102	102	102	102							
FS 10 NO. TEST CONNECTOR CONTROL	B9	87	91	91	91	91	91	91	91	98	99	99	99	99	99	99	99	99	99							
FS 11A MASTER TEST CONNECTOR CHECK	B10A*	89	89	89	89	89	95	95	97	97	99	99	99	99	103	103	103	103	103							
FS 11B JUNCTOR SEQUENCE CONTROL	B10F	89	89	89	89	94	94	94	94	98	98	98	98	98	98	98	98	98	98							
FS 12A MARKER CONNECTOR RELAYS	B11A*	85	85	85	85	85	85	96	97	98	99	99	99	99	99	99	99	99	99							
FS 12B MARKER CONTROL	B11B	86	86	86	86	86	86	86	86	98	99	99	101	101	103	103	103	103	103							
FS 13 CALLED NUMBER CONTROL	B12	89	89	89	89	89	89	89	89	98	99	99	99	102	102	102	102	102	102							
	B13A*	89	89	89	89	89	89	89	89	89	99	99	99	99	103	103	103	103	107							
	B13B	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85							
FS 14 CALLED NUMBER SELECTION	B14A	85	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	98							
	B14B	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
	B15A*	85	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	107							
	B15B	78	78	78	78	78	78	78	78	79	99	99	99	99	99	99	99	99	107							
FS 15 CALLED NUMBER FREQUENCY SHIFT PULSING, REGISTER TESTS	B16	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	106	106							
FS 16 CALLED NUMBER FREQUENCY SHIFT PULSING, SENDER TESTS	B17	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	106	106							
FS 17 CALLED NUMBER	B18A*	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73							
FS 95 PBX SLEEVE CONTROL	B18B	88	88	88	88	88	88	88	88	98	98	98	98	102	102	104	104	106	106							
FS 96 TRANSVERTER LINE VERIFICATION	B18C	73	73	73	73	73	73	73	73	98	98	98	98	98	98	98	98	98	98							
FS 18 OFFICE INDEX	B19	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85							
FS 19A, FS 19B — CALLING LINE NUMBER, LINE LINK LOCATION AND INCOMING CLASS CONTROL	B20A	87	87	87	87	87	87	87	87	98	98	98	98	102	102	102	102	102	102							
	B20B	89	89	89	89	89	89	89	97	98	98	98	98	98	98	98	98	98	98							
FS 20 CALLING NUMBER	B21	69	69	69	69	69	69	69	69	98	98	98	98	98	98	98	98	98	98							
FS 21 LINE LINK LOCATION (LINE LINK FRAME NUMBER)	B22A*	85	85	85	85	94	94	94	97	97	97	97	97	97	97	97	97	97	97							
	B22B	89	89	89	89	94	94	94	97	97	97	97	97	97	97	97	97	97	97							
(VERTICAL GROUP)	B23A*	83	83	83	83	94	94	94	94	94	94	94	94	94	94	94	94	94	94							
	B23B	82	82	82	82	82	82	82	97	97	97	97	97	97	97	97	97	97	97							
(HORIZONTAL GROUP)	B24A*	86	86	86	86	94	94	94	94	94	94	94	94	94	94	94	94	94	94							
	B24B	89	89	89	89	89	89	89	97	97	97	97	97	97	97	97	97	97	97							
(VERTICAL FILE)	B25	86	86	86	86	94	95	95	97	97	97	97	97	97	97	97	97	97	97							
FS 22 CLASS OF SERVICE AND RATE TREATMENT	B26A*	89	91	91	91	91	91	96	97	98	98	98	98	98	103	103	103	103	103							
	B26B	76	76	76	76	76	76	96	96	96	96	96	101	101	103	103	103	103	103							
	B27	86	91	91	93	93	93	93	97	97	99	99	99	99	99	99	99	99	99							
FS 23A FREE NUMBER	B28A*	76	76	76	76	76	76	76	97	97	97	97	97	97	97	97	97	97	97							
FS 23B RINGING COMBINATION	B28B	90	90	90	90	90	90	90	90	90	99	99	99	99	99	99	99	99	99							
FS 24 LINE VERIFICATION	B29	87	87	87	87	94	94	94	94	98	98	98	98	98	98	98	98	98	98							
FS 25 NUMBER GROUP TENS BLOCK SCREENING, TERMINATING TREATMENT	B30	89	89	89	89	89	89	96	96	96	99	99	99	102	102	102	105	105	107							
FS 26 TYPE OF CALL	B31	83	83	83	83	83	83	96	96	98	98	98	98	102	103	103	103	103	107							

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FS 27 COIN AND PREEMPTION CONTROL, PERMANENT SIGNAL, SECOND TRIAL AND TRANSFER START	B32	89	89	89	89	94	94	94	94	98	98	98	98	98	98	98	98	98	98							
FS 28 TANDEM SCREENING	B33A*	74	74	74	74	74	74	96	96	96	96	96	102	103	103	103	103	103								
FS 97 INCOMING CLASS; FS 98 TYPE OF CALL	B33B	87	87	87	87	87	87	87	87	98	98	98	98	98	98	98	98	98	98							
FS 29 TYPE OF TRANSLATOR	B34A*	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76							
FS 99 TYPE OF CALL; FS 100 TYPE OF TRANSLATOR	B34B	89	89	89	89	89	89	89	89	89	89	89	89	102	102	102	102	102	102							
PART OF FS 30 CLASS AND TRANSLATOR	B35A*	74	74	74	74	74	74	96	96	96	99	99	99	102	102	102	102	102								
FS 101 AUTOMATIC MONITOR CHECK	B35B	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82							
	B35C	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74							
PART OF FS 30 CLASS AND TRANSLATOR; FS 102 TRANSFER REGISTER PRIMING	B36	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
FS 31A, FS 31B — SIMULATED INCOMING TRUNK AND TRUNK LINK FRAME	B37A*	80	80	80	93	93	93	96	96	98	96	96	96	96	96	96	96	96	96							
	B37B	81	81	81	81	81	81	81	97	97	99	99	99	102	102	102	102	102	102							
FS 32 INCOMING TRUNK CLASS AND RECORDER NUMBER	B38	83	83	83	83	94	94	94	94	98	98	98	98	98	102	102	102	102	102							
FS 33A INCOMING TRUNK NUMBER RELAYS	B39A*	82	82	82	82	82	82	82	82	98	98	98	98	98	98	98	98	98	98							
FS 33B INCOMING TRUNK NUMBER CROSS CONNECTION	B39B	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82							
FS 33C INCOMING TRUNK NUMBER MESSAGE BILLING INDEX AND CODE POSITION	B39C	80	80	80	80	80	80	96	96	98	98	98	101	101	101	101	101	101	101							
FS 34 SIMULATED RINGING SELECTION SWITCH	B40A*	88	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91							
FS 35AA, FS 35AB — TRUNK SELECTION CONTROL	B40B	89	89	89	89	89	89	96	96	98	99	99	99	102	102	102	102	102	107							
	C41A*	86	86	86	86	86	86	96	96	96	99	99	99	103	103	103	103	103								
FS 35B CHANNEL AND ALLOTTER GROUP SELECTION AND JUNCTOR STEP POSITION CONTROL	B41B	89	89	89	89	94	94	96	97	98	98	98	98	98	98	98	98	98	98							
	B41C							96	96	96	96	96	96	96	96	96	96	96	96							
FS 36 ROUTE ADVANCE AND TRUNK SELECTION CONTROL	B42A*	84	91	91	91	91	95	96	96	96	96	96	96	96	96	96	96	96	96							
FS 37 ROUTE ADVANCE COUNTER	B42B	89	91	91	91	91	91	96	96	96	96	96	101	101	101	101	101	101	101							
FS 38 ROUTE ADVANCE CONTROL	B43	88	88	88	88	88	88	96	96	96	96	96	96	96	96	96	96	96	96							
FS 39A, FS 39B — TRUNK LINK FRAME SELECTION	B44A*	88	88	88	88	88	88	88	97	98	98	98	98	98	98	98	98	98	98							
	B44B	81	81	81	93	93	93	96	96	98	98	98	98	98	98	98	98	98	98							
FS 40 TRUNK OR ORIGINATING REGISTER SELECTION	B45	65	65	65	65	65	65	96	96	98	98	98	98	102	102	102	102	102	102							
FS 41 SENDER SELECTION	B46	51	51	51	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93							
	B47	85	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	98							
FS 42A TRUNK TESTING	B48A*	80	80	80	80	80	80	80	80	80	80	80	80	80	80	104	104	104	104							
FS 42B REGISTER AND SENDER TESTING	B48B	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82							
FS 42C REGISTER SENDER AND TRUNK TESTING	B48C	82	82	82	82	94	94	94	94	94	94	94	94	102	102	102	102	102	102							
FS 43 CAMA TESTS	B49A*	71	71	71	71	71	71	71	97	97	97	97	97	97	97	97	97	97	97							
	B49B								97	97	97	97	97	97	97	97	97	97	97							
FS 44A ORIGINATING TEST LINE CONTROL TIP AND RING	B50A*	85	85	85	85	94	95	95	95	95	95	101	101	101	101	101	101	101	101							
FS 44B ORIGINATING TEST LINE CONTROL SLEEVE	B50B	85	85	85	85	94	95	96	96	96	99	99	101	101	101	101	101	101	101							
FS 45 MARKER CONTINUITY TESTING	B51A*	86	86	86	86	86	95	95	97	97	99	99	99	102	102	102	102	102	102							
	B51B	89	89	89	89	89	89	89	89	89	99	100	100	100	100	100	100	100	100							
FS 134 PERMANENT SIGNAL TEST CONTROL	B51C	89	89	89	89	89	89	89	89	89	99	100	101	101	101	101	101	101	107							
FS 46A SIMULATED SLEEVE AND JUNCTOR OPERATION AND SURGE OPERATION TEST	B52A*	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	98	98							
FS 46B SIMULATED LINE LINK AND LINE LINK HOLD MAGNET OPERATION	B52B	85	85	85	85	85	85	85	97	98	99	99	101	102	102	102	102	102	102							
FS 47 MARKER TEST CONTROL	B53A*	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	98	K7							
	B53B	80	80	80	80	80	80	80	80	80	80	80	80	102	102	102	102	102	102							
	B53C	80	80	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92							
FS 48A MARKER FUNCTION CHECK	B54A*	88	88	88	88	88	95	96	96	96	96	96	96	96	96	96	96	106	K7							
FS 48B MARKER AND TRANSVERTER TEST CONTROL	B54B	89	91	91	91	91	91	91	91	98	99	99	101	102	102	102	102	102	102							

* SHEETS WITH SUFFIX "A" WERE FORMERLY WITHOUT A SUFFIX LETTER.

DRAWING ISSUE

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

(2)

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BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 6S

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FS 50 MISCELLANEOUS MARKER AND TRANSVERTER TEST	856A*	83	83	83	83	94	94	94	94	98	98	98	98	98	98	98	98	98	98							
	856B	87	87	87	93	94	94	94	94	98	98	98	98	98	98	104	104	104	104							
FS 51A DISCONNECT	857A*	90	90	90	90	94	94	96	97	98	99	99	99	102	102	102	102	106	107							
FS 51B TROUBLE RECORD REQUEST	857B	88	88	88	88	88	88	96	96	98	98	98	98	102	102	102	102	102	102							
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FS 53 VERIFICATION	859	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
FS 54 LINE VERIFICATION	860A*	75	75	75	75	75	75	96	96	96	96	96	96	96	96	96	96	96	96							
	860B	85	85	85	85	85	85	85	85	85	85	85	85	85	85	104	104	104	104							
FS 55 TRUNK (TT/LT) OR LINE (LT) RELAY LOCKOUT	861	84	84	84	84	84	95	95	97	98	98	98	98	102	102	102	102	102	102							
FS 56 LOCATION OF LINE LINK OR TRUNK LINK FRAME HAVING LOCKED (LTM/TTM) OR (LTA/TTA) RELAY	862A*	87	87	87	87	87	87	87	87	98	98	98	98	102	102	102	102	102	102							
FS 57 LINE LINK PULSING	862B									98	98	98	98	102	102	102	102	102	102							
FS 58A PROGRESS AND IDENTIFICATION LAMP CONTROL FS 58B PROGRESS AND IDENTIFICATION LAMP BOOSTER	863A*	89	89	89	93	93	95	95	95	95	95	95	95	95	95	95	95	95	95							
FS 60A ALLOTTED NUMBER GROUP SELECTION CONTROL FS 60B FS 61 MISCELLANEOUS TESTS	863B	87	87	87	87	87	87	87	87	98	98	98	98	102	102	102	102	102	102							
FS 62 TEST OF MARKER NO TEST AND NO HUNT FEATURES	864	85	85	85	85	85	85	85	85	98	98	98	98	102	102	102	102	102	102							
FS 63 REGISTER AND SENDER TESTS	865A*	90	90	90	90	90	90	90	90	98	98	98	98	98	98	98	98	98	98							
	865B									98	98	98	98	98	98	98	98	98	107							
FS 64 PULSE CONVERSION SENDER TEST	866	59	59	59	59	59	59	59	59	59	59	59	59	59	59	104	104	104	104							
FS 65 TRANSVERTER TEST CONTROL	867	87	87	87	87	94	94	94	98	98	98	98	98	98	98	98	98	98	98							
FS 66 TRANSVERTER TEST CONTROL	868A*	89	89	89	89	89	95	96	97	98	98	98	98	98	98	98	98	98	98							
	868B									98	98	98	101	101	101	101	101	101	101							
FS 67 TRANSVERTER TEST CONTROL	869A*	86	91	91	93	94	94	94	94	98	98	98	98	98	98	98	98	98	98							
	869B									98	98	98	98	98	98	104	104	104	104							
FS 68 CAMA TESTING	870	76	76	76	76	76	76	76	76	98	98	98	98	98	98	98	98	98	98							
FS 69 CAMA TESTS	871	74	74	74	74	74	74	74	74	98	98	98	98	98	98	98	98	98	98							
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FS 72 4-WIRE TESTS	874	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83							
FS 73 CAMP-ON	875	88	88	88	88	88	88	88	88	88	88	100	100	100	100	100	100	100	100							
FS 74 ECHO SUPPERSSOR AND PAD CONTROL	876	64	64	64	64	64	64	64	64	64	64	64	64	64	64	104	104	104	104							
FS 75 CONFERENCE CONTROLLER TEST	877	88	88	88	88	88	88	88	88	88	88	88	88	88	88	104	104	104	104							
FS 76 CENTREX SERVICE FS 77 CENTREX SERVICE	878	79	79	79	79	79	79	79	97	97	97	97	97	97	97	97	97	97	97							
FS 78 CENTREX SERVICE POSITION AND POSITION LINK CONTROL	879	89	99	89	89	89	89	89	89	89	89	100	100	100	100	100	100	100	100							

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FS 80B LINE IDENTIFIER CHECK FS 80C TRANSFER REGISTER TEST	881	68	68	68	68	68	68	68	68	68	68	68	68	68	68	104	104	104	104							
FS 81 DIAL TRANSFER TEST APPEARANCES	882	85	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	98							
FS 83 LINE IDENTIFICATION X-CHECK	883	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70							
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FS 85 MARKER MULTILEVEL STATUS CONTROL AND SIMULATED AUX LINE	885	88	88	88	88	88	88	96	96	98	98	98	98	98	98	98	98	98	98							
FS 86 STATUS CHECK CONTROL	886	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88							
FS 87 TRUNK OR AUX LINE STATUS CONTROL	887	88	88	88	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93							
FS 88 STATUS CONDITION CHECK	888	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88							
FS 89 DIRECT ACCESS PRETRANSLATOR CONTROL	889	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74							
FS 90 ACCESS GROUP CONTROL TEST	890	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83							
FS 92 PBX BLOCK SELECT HUNTING GROUP CONTROL	891	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76							
FS 93 GLARE DETECTION	892	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	90	80							
FS 94 CALL PRIVILEGE CONTROL DIGITS	893	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88							
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FS 104B	895B	85	85	85	85	85	85	85	85	85	99	99	99	99	99	99	99	99	99							
FS 105 REGISTER GROUP (ROUTE) SELECTION	896	76	76	76	76	76	95	95	97	97	97	97	97	97	103	103	103	103	103							
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FS 108 MAGNETIC TAPE RECORDING CHANNEL SELECTION	898	83	91	91	91	91	91	91	91	91	99	99	99	99	99	99	99	99	99							
FS 109 MAGNETIC TAPE RECORDING TRANSVERTER AND TRUNK CONTROL TEST	899	89	89	89	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93							
FS 110 MAGNETIC TAPE RECORDING TRANSVERTER RAIL CONTROL	8100	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80							
FS 111 MAGNETIC TAPE RECORDING TRUNK NUMBER AND TIME ENTRY	8101	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85							
FS 112 MAGNETIC TAPE RECORDING TRUNK CONTROL CKT SEIZURE AND TRANSFER	8102	89	89	89	93	93	93	93	93	93	99	99	99	99	99	99	99	99	99							
FS 113 MAGNETIC TAPE RECORDING TRUNK CONTROL TEST CONNECTION	8103	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
FS 114 MAGNETIC TAPE RECORDING SIMULATED TRUNK OPERATION	8104	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86							

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DRAWING ISSUE

ISSUE 107A

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FS 130 CALL WAITING - NO TEST	B119	85	85	85	85	85	85																			
FS 131 INTRAFLOW-ACD	B120	84	84	84	84	84	84																			
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APP FIG. 1	C7A*	90	91	92	92	92	95	96	97	98	99	100	100	100	103	104	104	104	104							
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APP FIG. 2	C8	86	91	91	93	93	93	96	96	98	99	99	99	99	103	103	103	103	107							
APP FIG. 3	C9	90	91	91	91	91	91	96	96	98	99	99	99	102	102	104	104	104	104							
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	C11	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85							
APP FIG. 5	C12	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85							
APP FIG. 6	C13	89	89	89	89	89	89	96	97	98	99	99	99	99	99	99	99	99	99							
	C14	74	74	74	74	74	74	74	97	97	97	97	97	97	97	97	97	97	97							
	C15	83	83	83	83	83	95	95	97	97	97	97	97	97	97	97	97	97	97							
APP FIG. 7	C16	85	85	85	85	85	95	96	97	98	99	99	99	99	99	99	99	99	99							
	C17	79	79	79	79	79	79	79	79	79	99	99	99	99	99	99	99	99	99							
	C18	85	85	85	85	85	85	96	96	98	98	98	98	98	98	98	98	98	98							
APP FIG. 8	C19	71	71	71	71	71	71	71	71	71	99	99	99	99	99	99	99	99	99							
APP FIG. 9	C20	86	86	86	86	86	86	96	96	96	99	99	101	101	101	101	101	101	101							
	C21	78	78	78	78	78	78	96	96	98	98	98	98	98	98	98	98	98	98							
	C22	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67							
APP FIG. 10	C23	86	86	86	86	86	86	96	96	98	99	99	99	99	99	99	99	99	99							
APP FIG. 11	C24	85	85	85	85	85	95	95	95	95	99	99	101	101	101	101	101	101	101							
	C25	74	74	74	74	74	74	74	74	74	99	99	99	99	99	99	99	99	99							
APP FIG. 12	C26	80	80	80	80	80	80	80	80	98	98	98	98	98	98	98	98	98	98							
APP FIG. 13	C27	88	88	88	93	93	93	93	93	99	99	99	99	99	99	99	99	99	99							
	C28	88	88	88	88	88	88	88	88	98	98	98	98	98	98	98	98	98	98							
APP FIG. 14	C29	89	89	89	89	89	89	89	89	98	99	99	101	101	101	101	101	101	101							
APP FIG. 15	C30	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86							
	C31	85	85	85	93	93	93	93	93	98	98	100	100	100	100	100	100	100	100							
APP FIG. 16	C32	84	84	84	84	84	84	84	84	98	99	99	99	99	99	99	99	99	99							
	C33	65	65	65	65	65	65	65	65	98	98	98	98	102	102	102	102	102	102							
APP FIG. 17	C34	87	87	87	87	87	87	87	87	87	99	99	99	99	99	99	99	99	99							
	C35	89	89	89	89	89	89	89	89	98	98	98	98	98	98	98	98	98	98							
APP FIG. 18,19	C36	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78							
APP FIG. 20	C37	80	80	80	80	80	80	80	80	98	98	98	98	98	98	98	98	98	98							
	C38	90	90	90	90	90	90	96	96	98	98	98	98	98	98	98	98	98	98							
APP FIG. 21	C39	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80							
APP FIG. 22,23,24	C40	76	76	76	76	76	76	76	76	98	98	100	100	100	100	100	100	100	100							
APP FIG. 25,26,27	C41	90	91	91	91	91	91	96	96	98	99	99	101	101	103	103	103	103	103							

CONTENTS	SHEET NO.	ISSUE NO. 90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
APP FIG. 28,29,30,31	C42	80	80	80	80	80	80	80	80	98	99	99	99	99	99	99	99	99	99							
APP FIG. 32,33,34	C43	87	87	87	87	87	95	95	95	95	95	95	95	95	95	95	95	95	95							
APP FIG. 35,36	C44	71	71	71	71	71	71	71	71	71	99	99	99	99	99	99	99	99	99							
APP FIG. 37,38,39	C45	85	85	85	93	93	93	93	93	98	98	98	98	98	98	98	105	105	105							
APP FIG. 40	C46	85	85	85	85	85	85	85	97	98	98	100	100	100	100	104	104	104	104							
APP FIG. 41	C47	80	80	80	80	80	80	80	97	98	99	99	99	102	102	102	102	102	102							
	C48	76	76	76	76	76	76	76	76	98	98	98	98	98	98	98	98	98	98							
APP FIG. 42,43,44	C49	89	89	89	89	89	89	89	97	98	98	98	98	98	98	98	98	98	98							
APP FIG. 45	C50	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73							
APP FIG. 46,47,48	C51	85	85	85	85	85	85	85	85	98	98	98	98	98	104	104	104	104	104							
APP FIG. 49	C52	85	85	85	93	93	93	93	97	98	98	98	98	98	98	98	98	98	98							
APP FIG. 50	C53	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66							
APP FIG. 51,52	C54	90	90	90	90	90	90	90	90	98	98	100	100	100	100	100	100	100	100							
APP FIG. 53,54	C55	85	85	85	85	85	85	85	85	85	85	85	101	101	101	101	101	101	101							
APP FIG. 55	C56	85	85	85	85	85	85	85	97	98	98	98	98	98	98	98	98	98	98							
APP FIG. 56,57	C57	85	85	85	85	85	85	96	96	98	98	100	101	101	101	101	101	101	107							
APP FIG. 58	C58	76	76	76	76	76	76	76	76	98	99	99	99	99	99	99	99	99	99							
APP FIG. 59	C59	88	88	88	88	88	88	88	88	98	98	98	98	98	98	98	98	98	98							
APP FIG. 60,61	C60	85	85	85	85	85	85	96	96	98	99	99	101	102	102	104	104	104	104							
APP FIG. 62	C61	88	88	88	88	88	88	88	88	98	98	98	98	98	98	98	98	98	98							
APP FIG. 63,64,65	C62	85	85	85	85	85	85	85	85	98	99	99	99	99	99	99	99	99	99							
APP FIG. 66,67,68	C63	80	80	80	80	80	80	80	80	98	99	99	99	102	102	102	102	102	102							
APP FIG. 69,70,71,72,73,74	C64	80	80	80	80	80	80	80	80	98	99	99	99	99	99	99	99	99	99							
APP FIG. 75,76,77	C65	76	76	76	76	76	76	76	76	98	99	99	99	99	99	99	99	99	99							
APP FIG. 78,79,80	C66	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83							
APP FIG. 81,82	C67	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89							
APP FIG. 83,84,85	C68	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76							
APP FIG. 86	C69	85	85	85	85	85	85	96	97	98	99	100	100	100	100	100	100	100	100							
APP FIG. 87	C70	87	87	87	87	87	87	87	97	97	99	99	101	101	101	101	101	101	101							
APP FIG. 88,89	C71	89	89	89	89	89	89	89	89	98	98	100	100	100	100	100	100	100	100							
APP FIG. 90,91,92,93	C72	88	91	91	91	91	91	91	91	98	98	98	98	98	98	98	98	98	98							
APP FIG. 94	C73	80	80	80	80	80	80	80	80	98	98	100	100	100	100	100	100	100	100							
APP FIG. 95,96	C74	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63							
APP FIG. 97	C75	76	76	76	76	76	76	76	76	98	99	99	99	102	102	102	102	102	102							
APP FIG. 98	C76A*	88	88	88	88	88	88	88	88	88	98	99	100	100	100	100	100	100	100							
	C76B	88	88	88	88	88	88	88	88	88	98	99	99	99	99	99	99	99	99							
APP FIG. 99	C77	88	88	88	88	88	88	96	96	98	98	100	100	100	100	100	100	100	100							
APP FIG. 100,101	C78	85	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	98							
APP FIG. 102,103,104	C79	88	88	88	88	88	88	88	88	97	97	97	97	97	97	104	104	104	104							

* SHEETS WITH SUFFIX "A" WERE FORMERLY WITHOUT A SUFFIX LETTER

DRAWING ISSUE

ISSUE 107A

MASTER TEST CONTROL CIRCUIT ②

SD-25800-01-A7

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CBL-142 (10-69)

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
APP FIG 105,106,107	C80	81	81	81	85	85	85	85	85	85	85	85	85	85	85	85	97	98	98	98	98	102	102	102	102	102	102
APP FIG 108,109,110	C81	80	80	80	80	80	80	88	88	88	88	88	88	88	88	96	96	98	98	100	100	100	100	100	100	100	100
APP FIG 111,112	C82	78	78	78	78	78	78	88	88	88	88	88	88	88	88	88	88	88	99	100	100	100	100	100	100	100	100
APP FIG 113,114	C83	70	70	70	70	70	70	70	70	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
RESERVED	C84																										
APP FIG 116	C85	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
APP FIG 117,118	C86	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	98	98	98	98	102	102	102	102	102	102
APP FIG 119,120	C87	79	79	84	84	84	84	84	89	89	89	89	89	89	95	96	96	98	99	99	99	99	99	95	99	99	99
APP FIG 121,122,123,124	C88	74	74	74	74	74	74	88	88	88	88	88	88	88	88	88	88	98	98	98	98	98	98	98	98	98	98
APP FIG 125	C89	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	98	98	98	98	98	98	98	98	98
APP FIG 126	C90	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	98	98	98	98	98	98	98	98	98
APP FIG 127	C91	80	83	83	85	86	86	88	89	90	90	90	90	90	90	90	90	90	98	99	99	99	99	99	99	99	99
	C92	78	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	93	83	83	83
APP FIG 128	C93	80	83	83	85	85	87	87	87	87	87	87	87	87	87	87	87	87	98	98	98	98	98	98	98	98	98
	C94	80	83	83	83	83	83	83	83	90	90	90	90	90	90	90	90	90	98	98	98	98	98	98	98	98	98
APP FIG 129,130,131,132,133	C95	80	80	80	80	80	80	80	89	89	89	89	89	89	89	96	96	98	99	99	99	99	99	99	99	99	99
APP FIG 134	C96	79	83	83	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	102	102	102	102	102	102
	C97A	82	82	82	82	82	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	102	102	102	102	102	102
	C97B	82	82	82	82	86	86	86	89	89	89	89	89	89	89	89	89	93	98	98	98	102	102	102	102	102	102
APP FIG 135	C98	82	83	83	85	85	85	85	89	89	89	89	89	89	89	89	89	89	99	99	99	102	102	102	102	102	102
	C99	82	83	84	85	85	85	85	39	89	89	89	89	89	89	89	97	97	97	97	97	102	102	102	102	102	102
APP FIG 136,137,138,139	C100	81	83	83	85	85	85	85	85	85	85	85	85	85	85	85	85	97	98	99	99	99	102	102	102	106	106
APP FIG 140	C101	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
APP FIG 143,144	C102	81	81	81	81	81	87	87	87	87	87	87	87	87	87	87	87	98	99	99	99	99	99	99	99	106	106
APP FIG 145	C103	80	83	83	85	85	85	85	85	85	85	85	85	85	85	85	85	98	98	98	98	98	98	98	98	98	107
APP FIG 146	C104	80	83	83	85	85	85	85	85	85	95	85	85	85	85	85	97	97	99	99	99	99	99	99	99	99	99
APP FIG 148,149,150	C105	78	78	78	85	86	86	86	86	90	91	91	93	93	95	95	95	98	99	99	99	99	99	99	99	99	99
APP FIG 151,152,153,154	C106	82	82	82	85	85	87	87	87	90	90	90	93	93	93	93	93	98	98	98	98	98	98	98	98	98	98
APP FIG 155	C107			84	84	84	84	84	89	89	89	89	89	89	89	89	89	98	98	98	98	98	98	98	98	98	98
APP FIG 156,158,159	C108					86	87	87	89	89	89	89	89	89	95	95	97	98	99	100	101	101	103	103	103	103	103
APP FIG 160,161	C109							88	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
APP FIG 163,164	C110							88	89	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	107
APP FIG. 165,166,167	C111															96	96	98	99	99	101	102	103	103	103	106	107
APP FIG. 168,169	C112																	98	99	99	99	99	99	99	99	99	99
APP FIG. 170,171,172,173	C113																	98	98	98	101	102	102	102	102	102	102
APP FIG. 174,175,176,177	C114																	98	99	100	100	102	103	103	103	103	103
APP FIG. 178,179	C115																					102	102	104	104	104	107
APP FIG. 180	C116																									106	106

CONTENTS	SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107

DRAWING ISSUE	
82D	CB
83A	CB

ISSUE 107A

MASTER TEST CONTROL CIRCUIT ②

SD-25800-01-A8

BELL TELEPHONE LABORATORIES INCORPORATED

DRAWING SIZE 6S

PRINTED IN U.S.A.

SD-25800-01-A8

CBL-142 (10-69)

SHEET INDEX

CONTENTS		SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
CIRCUIT NOTES	101	D1	82	82	84	84	86	87	88	89	89	89	89	89	89	89	89	89	89	99	99	99	102	102	104	104	106	107
		D2	82	83	84	85	86	86	86	89	89	89	93	93	93	96	96	98	99	99	99	99	99	99	99	99	106	107
		D3	82	82	84	85	86	87	88	89	89	89	89	89	89	89	96	96	98	99	99	99	102	102	102	102	106	106
		D4A	82	82	84	85	86	86	88	88	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
		D4B	82	82	84	84	86	86	86	86	86	86	86	86	86	86	86	86	98	98	98	98	98	98	98	98	106	107
	102	D5	80	83	84	85	85	87	88	89	90	90	92	93	93	93	96	97	98	98	98	101	101	101	101	101	101	101
		D6	82	83	84	85	86	87	88	89	90	91	92	92	94	95	96	96	98	99	99	99	102	102	102	102	102	107
		D7	80	80	80	80	86	86	88	89	90	90	90	90	94	95	96	96	98	99	100	100	102	103	104	104	106	107
	103	D8	80	80	80	80	80	80	80	80	80	80	80	80	80	80	95	95	95	95	95	95	95	95	95	95	95	95
		D9	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D10	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	101	101	101	101	101	101	101
		D11	80	80	80	85	85	87	87	89	89	91	91	93	94	94	94	94	94	94	94	94	94	94	94	94	94	94
		D12	80	80	80	85	85	87	87	87	87	91	91	91	91	95	95	95	95	95	95	95	95	104	104	104	104	104
		D13	82	83	83	85	85	87	88	89	89	91	91	93	93	95	96	97	97	99	100	100	100	104	104	104	104	104
		D14	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	97	99	100	101	101	103	103	103	103	107
		D15															96	97	97	99	100	101	102	103	104	105	106	107
	RESERVED	D16																										
		D17																										
	104-135	D18	80	80	80	80	80	87	87	87	87	87	87	87	87	87	96	96	96	99	99	99	99	99	99	99	99	99
	135(CONT)-160	D19	80	83	83	83	83	83	88	88	88	88	88	88	88	88	96	96	98	98	98	98	98	98	98	98	98	98
	161-199, 1101-1111	D20	82	83	83	83	86	86	88	88	88	88	91	91	91	91	91	91	98	98	98	98	102	102	102	102	102	107
	1112-1146	D21	80	80	80	85	85	87	88	89	89	91	91	91	91	91	91	97	97	99	99	99	102	103	103	103	103	107
	1147-1185	D22	82	83	84	85	85	87	88	89	89	91	91	93	94	95	96	97	98	99	99	99	101	102	102	102	102	107
	1186-1220	D23	82	83	84	85	85	87	88	89	90	91	91	93	94	95	96	97	98	99	100	101	102	102	102	102	106	107
	1221-1256	D24							88	88	90	91	92	93	93	95	96	97	98	99	100	100	102	103	104	104	106	107
	1257 TO END	D25																					102	102	104	105	106	106
EQUIPMENT NOTES	201-END	D26	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	97	97	97	97	97	97	97	97	97	97
INFORMATION NOTES	301	D27	82	82	82	82	82	82	82	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
	302	D28	82	83	83	83	86	86	86	89	89	89	89	89	89	89	89	97	97	97	97	97	97	97	97	97	97	97
	303-306	D29	82	82	82	82	82	82	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
	307	D30	82	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
	308-END	D31	82	83	83	85	85	87	87	89	89	89	89	89	89	89	89	89	97	97	97	100	100	100	100	100	100	100
	RESERVED	D32																										
CROSS CONNECTING INFORMATION		D33	82	83	83	85	85	85	85	89	89	89	89	89	89	89	89	89	97	97	97	97	97	97	97	97	97	97
		D34	82	83	83	85	85	85	85	89	89	89	89	89	89	89	89	89	97	97	97	97	99	97	97	97	97	97
RESERVED		D35																										
FIG.201A OPERATION OF KEYS FOR SETTING UP TYPICAL MARKER TESTS		D36A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D36B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D36C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D36D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D37A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D37B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D37C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D37D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
FIG.201B OPERATION OF KEYS FOR SETTING UP TYPICAL TRUNK TESTS		D38A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D38B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D38C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D38D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D39A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D39B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D39C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D39D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D40A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D40B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D40C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D40D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
FIG.201C OPERATION OF KEYS FOR SETTING UP TYPICAL REGISTER, SENDER, LINE, LINE VERIFICATION, AND TRANSVERTER TESTS		D41A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D41B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D41C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D41D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D42A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D42B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D42C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		D42D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80

BLOCK DIAGRAMS

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FIG.2010 OPERATION OF KEYS FOR SETTING UP TYPICAL CAMA TESTS	D43A	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	D43B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	D43C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	D43D	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
RESERVED	D44																										
FIG.202 DT CLASS OF MARKER TEST FIG.203 ORIG CLASS OF MARKER TEST	D45	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.204 & 205 ORIG CLASS OF MARKER TEST	D46	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.206 & 207 ORIG CLASS OF MARKER TEST	D47	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.208 & 209 INCOMING CLASS OF MARKER TEST	D48	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.210 & 211 OR CLASS OF TEST	D49	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.212 SENDER CLASS OF TEST	D50	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.213 SENDER CLASS OF TEST FIG.214 IR CLASS OF TEST	D51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.215 TEST FAILURE CONNECTION OF MONITOR TO TBL RCDR FIG.216 OGT, MISC, ITDO, OR IAO CLASS OF TRUNK TEST	D52	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.217 TRUNK TESTS FIG.218 TRUNK TESTS	D53	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.219 & 220 MISC CLASS OF TRUNK TESTS	D54	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.221 & 222 MISC OR IAO CLASS OF TRUNK TEST	D55	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.223 IAO OR MISC CLASS OF TRUNK TEST FIG.224 ITNP CLASS OF TRUNK TEST	D56	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.225 ITNP CLASS OF TRUNK TEST	D57	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.226 & 227 MLV CLASS OF TEST	D58	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.228 MLV CLASS OF TEST FIG.229 LT CLASS OF TEST	D59	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.230 & 231 TVT CLASS OF TEST FIG.232 PTT CLASS OF TEST	D60	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.233 IAO CLASS OF TEST	D61	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.234 IMS CLASS OF TEST	D62	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
FIG.235 & 236 IMS CLASS OF TEST	D63	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51

ISSUE	
82D	CB
83A	CB

ISSUE 107A CB

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A10

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BLOCK DIAGRAMS	FIG.237 INC-PC CLASS OF TEST FIG.238 SDR-PC CLASS OF TEST	D64	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.240 CAMA SENDER CLASS OF MARKER TEST FIG.241 INCOMING MARKER TEST	D65	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.242 & 243 CAMA SENDER CLASS OF TEST	D66	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.244 CAMA SENDER TEST FIG.245 CAMA JUNCTOR CLASS OF TRUNK TEST	D67	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.246 CAMA JUNCTOR TEST FIG.247 CAMA JUNCTOR CLASS OF TEST	D68	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.248 & 249 ITNP CLASS OF TRUNK TEST	D69	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.250 & 251 ITNP CLASS OF TRUNK TEST	D70	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.252 & 253 CAMA INTERMARKER GROUP TRUNK TEST	D71	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	FIG.254 & 255 THIRD STAGE OF CAMA INTERMARKER GROUP TRUNK TEST	D72	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.256 CENTREX SERVICE	D73	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.257 CENTREX SERVICE	D74	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.258 CENTREX SERVICE	D75	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.259 CENTREX SERVICE	D76	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.260 & 261 CENTERX SERVICE	D77	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.262 & 263 CENTREX SERVICE	D78	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.264 & 265 CENTREX SERVICE	D79	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.266 & 267 CENTREX SERVICE	D80	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
	FIG.268 CENTREX SERVICE	D81	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.269 CENTREX SERVICE	D82	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.270 CENTREX SERVICE	D83	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.271 CENTREX SERVICE	D84	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.272 CENTREX SERVICE	D85	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.273 CENTREX SERVICE	D86	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.274 CENTREX SERVICE	D87	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.275 CENTREX SERVICE	D88	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	CAMP-ON WITH OR WITHOUT PREEMPTION — FIG.276 MARKER TEST, FIG.277 OR TEST	D89	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.278 TRUNK TEST-MISC CLASS PREEMPTION FEATURE	D90	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	LINE LINK PULSING FIG.279 "MISC" OR "OGT" CLASS OF TRUNK TEST FIG.280 "SDT" OR "SDR" CLASS OF SENDER TEST	D91	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51

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BLOCK DIAGRAMS	FIG.281 2-WAY TRANSMISSION TESTING	D92	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.282 CONFERENCE CONTROLLER TEST	D93	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.283 "MISC" CLASS OF TRUNK TEST	D94	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
		D95	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.284 "OGT" CLASS OF TRUNK TEST FIG.285 "MISC" CLASS OF TRUNK TEST	D96	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
	FIG.286 "DT" CLASS OF MARKER TEST FIG.287 DIAL TRANSFER-PHASE I & II "INC" CLASS OF MARKER TEST	D97	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	FIG.288 DIAL TRANSFER-PHASE I & II "INC" CLASS OF MARKER TEST FIG.289 DIAL TRANSFER-PHASE I & II "OR" CLASS OF TEST	D98	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	FIG.290 DIAL TRANSFER-PHASE III "LT" CLASS OF TEST	D99	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	FIG.291 CENTREX SERVICE-PHASE III "INTRA-LAT" CLASS OF TRUNK TEST	D100	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	FIG.292 MAINTENANCE PROVISIONS-WIDEBAND SWITCHING ARRANGEMENT	D101	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	FIG.293 "MISC" CLASS OF TRUNK TEST	D102	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
	FIG.294 "MISC" OR "ITDO" CLASS OF TRUNK TEST (ACD)	D103	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	FIG.295 "OR" CLASS OF TEST (ACD) FIG.296 "DT" CLASS OF TEST (ACD)	D104	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
	FIG.297 MAGNETIC TAPE RECORDING TRANSVERTER & TRUNK CONTROL TEST	D105	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
	FIG.298A TEST OF 2-WAY ONAL CIRCUIT	D106A	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
	FIG.298B TEST OF 2-WAY ONAL CIRCUIT	D106B	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
	FIG.299 WIDEBAND AUDIO AND VIDEO CONNECTIONS	D107	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
	FIG.300 WIDEBAND ORIGINATING CLASS OF MARKER TEST OUTGOING TRUNK WITH SENDER FIG.301 WIDEBAND INCOMING CLASS OF MARKER TEST SIMULATING SEIZURE BY AN INCOMING REGISTER CONNECTED TO AN INCOMING TRUNK WITH CALL TERMINATING LOCALLY	D108	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71

ISSUE
82D CB
83A CB

ISSUE
107A CB

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BLOCK DIAGRAMS	FIG.302 WIDEBAND ITNP CLASS OF TRUNK TEST,SETTING UP CONNECTION FROM INCOMING TRUNK (OR INCOMING TEST TRK) TO CALLED LINE	D109	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
	FIG.303 WIDEBAND MARKER LINE VERIFICATION-LOCAL STATION	D110	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
	FIG.304 CENTREX (PH III) CALL TRANSFER CENTRALIZED ATTENDANT	D111	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
	FIG.305 ESTABLISHING CONNECTION FROM REMOTE LINE CIRCUIT (SWITCHED) TO ATTENDANT TRUNK	D112	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
	FIG.306 CALL-WAITING DIAL TONE MARKER USAGE	D113	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
	FIG.307 CALL WAITING-USE OF CUSTOMER'S VERTICAL FIG.308 CALL WAITING-USE OF TEST VERTICAL	D114	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
	FIG.309 WIDEBAND CENTREX TEST OF TRANSFER TRUNK CIRCUIT	D115	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
	FIG.310 WIDEBAND CENTREX "ITNP" TEST OF LISTED DIRECTORY NUMBER TRUNK CIRCUIT	D116	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
	FIG.311 WIDEBAND CENTREX DIAL-O-OPERATOR TRUNK TEST	D117	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78

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DRAWING ISSUE	
82D	CB
83A	CB

ISSUE 107A

MASTER TEST CONTROL CIRCUIT ②

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BELL TELEPHONE LABORATORIES INCORPORATED

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SC 1 MULTILEVEL STATUS CHECK		E1	78	83	83	83	83	83	83	83	83	83	83	83	93	93	93	93	93	93	93	93	93	93	93	93	93	93
		E2	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
SC 2 4-WIRE CONFERENCE CONTROLLER TEST		E3	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
		E4	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
SC 3 LINE LINK PULSING SENDER TESTS WITH CONNECTION TO AUTOMATIC MONITOR	TEST START AND MARKER PRIMING	E5	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
	FIRST NO. GROUP USAGE	E6	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
	SECOND NO. GROUP USAGE	E7	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
	DISCONNECT	E8	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
SC 4A ACD DIAL TONE CLASS TEST CALL (DESIRED TERMINATION TO POSITION TRUNK)		E9	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
SC 4B ACD DIAL TONE CLASS TEST CALL (DESIRED TERMINATION TO TEST ACCESS CKT)		E10	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
SC 5 ACD DIAL TONE CLASS TEST CALL (MARKER START AND OPERATION)		E11	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
SC 6 ACD DIAL TONE CLASS TEST CALL (MARKER OPERATION)		E12	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
SC 7 ACD DIAL TONE CLASS TEST CALL (TRANSMISSION TEST RECYCLE)		E13	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
SC 8 JUNCTOR GROUP STEPPING SC 9 ACD DIAL TONE CLASS TEST CALL (DISCONNECT)		E14	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
SC 10 DIAL TONE CLASS MARKER TEST		E15	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
		E16	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
		E17	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		E18	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	RESERVED	E19																										
		E20	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
		E21	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
SC 11 MAGNETIC TAPE RECORDING TEST CALL PROGRESSION (SIMPLIFIED)		E22	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
SC 12 MAGNETIC TAPE RECORDING TEST START AND PREFERENCES		E23	78	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 13 MAGNETIC TAPE RECORDING TRUNK CONTROL TESTS		E24	78	83	83	83	83	83	83	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
SC 14 MAGNETIC TAPE RECORDING TRANSVERTER TEST (TVTI) KEY OPERATED		E25	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
		E26	78	83	83	83	83	83	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
		E27	78	83	83	83	83	83	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
SC 15 ROUTE ADVANCE CONTROL		E28	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
SC 16,17 CALL WAITING NO TEST		E29		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 18 CALL WAITING NO TEST		E30		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 19 CALL WAITING SERVICE TEST OF DIAL TONE MARKER FUNCTION AND LEVEL "0" OPERATION (LIGHT TRAFFIC)		E31		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
		E32		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
		E33		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 20 CALL WAITING SERVICE CUSTOMER VERTICAL TEST OR CUSTOMER LEVEL "0" CHECK		E34		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
		E35		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
		E36		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 21 LINE TEST CLASS OF CALL WAITING TEST WITH CWTV KEY OPERATED		E37		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
		E38		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 22 TROUBLE RECORD & RELEASE WITH CX SWITCH IN XH POSITION SC 23 ALERTING TONE TO TM2 JACK		E39		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
SC 24 CALL WAITING CKT TEST		E40		83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83

CONTENTS	SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
SC 25 CALL WAITING CKT PREVIOUSLY ATTACHED SC 26 TRANSVERTER-MAGNETIC TAPE TEST OF ANI FEATURE	E41		93	83	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
SC 27 TESTS OF AUTOMATIC INTERCEPT SENDER (SD-27882-01) USING AUTOMATIC MONITOR, REGISTER,& SENDER TEST CKT (SD-25680-01)	E42												93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
	E43												93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
SC 28 AUTOMATIC TRUNK TEST RECYCLE	E44																98	98	98	98	98	98	98	98	98	98	98

DRAWING ISSUE
82D
83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A14

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PRINTED IN U.S.A.

CBL-142 (10-69)

SHEET INDEX

CONTENTS		SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
CIRCUIT REQUIREMENTS TABLES	(ICNK) TO (BAK) RELAY	F1	81	83	83	85	86	86	88	88	90	90	90	90	90	90	90	90	90	99	100	100	100	100	100	100	106	106
	(BD) TO (CON) RELAY	F2	79	82	82	85	86	86	88	88	90	90	90	90	90	90	90	90	98	99	99	99	99	99	99	99	99	99
	(CR) TO (DISC) RELAY	F3	80	83	83	83	86	86	86	86	86	86	86	86	86	86	86	86	86	86	100	100	100	100	100	100	100	100
	(DMS) TO (FTK) RELAY	F4	80	83	83	83	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	107
	(FUO) TO (KFU) RELAY	F5	82	82	84	84	86	86	86	86	86	86	86	86	86	86	86	86	86	99	99	99	99	99	99	99	99	107
	(KG) TO (LHC) RELAY	F6	82	83	83	83	86	86	88	88	88	88	88	88	88	88	96	96	96	96	96	96	96	96	96	96	96	96
	(LHM) TO (MC16) RELAY	F7	82	82	82	85	86	87	88	88	88	88	88	93	93	93	93	98	98	98	102	102	102	102	102	102	102	102
	(MC17) TO (OGT) RELAY	F8	80	83	83	83	86	86	86	86	86	86	86	86	86	86	86	86	86	99	99	99	99	99	99	99	99	99
	(OPR) TO (PU1) RELAY	F9	80	83	83	83	86	86	86	86	86	86	86	93	93	93	96	96	98	99	99	99	99	99	99	99	99	99
	(RA) TO (RWL) RELAY	F10	80	83	83	85	86	87	87	87	87	87	87	87	87	87	96	97	97	99	99	99	99	99	99	99	99	99
	(S) TO (SWAT) RELAY	F11	80	80	84	84	86	86	86	86	86	86	86	86	86	86	86	86	86	98	98	98	98	98	98	98	98	98
	(T) TO (TNM) RELAY	F12	80	83	83	83	86	86	86	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
	(TNT) TO (TV) RELAY	F13	80	80	80	80	86	86	88	89	89	89	89	89	89	89	89	89	98	99	99	99	99	99	99	99	99	99
	(TV1) TO (WFBK) RELAY	F14	76	83	83	83	86	86	86	86	86	86	86	86	86	95	95	95	98	98	98	98	98	98	98	98	98	98
	(WFLG) RELAY TO END	F15	80	80	80	80	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
TIMING REQUIREMENTS TABLE																												

CONTENTS	SHEET NO.	ISSUE NO. 82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107

DRAWING ISSUE	
82D	CB
83A	CB

ISSUE 107A CB

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A17

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

CBL-142 (10-69)

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CAD 51,52,53	G1	96	96	98	98	98	98	98	103	103	103	103	103													
CAD 54,55	G2	71	71	71	71	71	71	71	71	71	71	71	71													
CAD 56	G3	71	71	71	71	71	71	71	71	71	71	71	71													
	G4	71	97	97	99	99	99	99	99	99	99	99	99													
CAD 57,58	G5	71	71	71	99	99	99	99	103	103	103	103	103													
CAD 59																										
CAD 60	G6	71	71	71	71	71	71	71	71	71	105	105	105													
CAD 61,62,63	G7	71	71	71	99	99	99	99	99	99	99	106	107													
CAD 64,65,66,67	G8	91	91	98	99	99	101	101	101	101	101	101	101													
CAD 68,69	G9	71	71	98	98	98	98	98	98	98	98	98	98													
CAD 70,71,73,74,75	G10	94	94	98	98	98	98	98	98	98	98	98	98													
CAD 76,77,78,79,80,81,82,83,84	G11	93	93	98	98	98	98	98	98	98	98	98	98													
CAD 85																										
CAD 86,87,88	G12	94	94	98	99	99	99	99	99	99	99	99	99													
CAD 89,90	G13AX	71	71	71	71	71	71	71	71	71	71	71	71													
CAD ~1																										
CAD 92,93,94	G13B	71	71	71	71	71	71	71	71	71	71	71	71													
CAD 95	G13C	96	96	98	99	99	99	99	103	103	103	103	103													
CAD 96	G13D	71	71	71	71	71	71	71	71	71	71	106	107													
	G13E	71	71	71	71	71	71	71	71	71	71	71	71													
	G13F	71	71	98	99	99	99	99	103	103	103	103	103													
	G13G	71	71	98	98	98	98	98	103	103	103	103	103													
	G13H	71	71	98	99	99	99	99	99	99	105	105	105													
	G13J	71	71	71	99	99	101	101	101	101	101	101	101													
	G13K	96	96	98	99	99	99	99	103	103	103	103	103													
CAD 97	G13L	71	71	71	71	71	71	71	71	71	71	71	71													
	G13M	71	71	71	71	71	71	71	71	71	71	71	71													
CAD 98,99																										
CAD 100	G13N	71	71	71	71	71	71	71	71	71	71	71	71													
CAD 101	G14AX	71	71	71	71	71	71	71	71	71	71	71	71													
CAD 102,103	G14B	95	95	95	95	95	95	95	95	95	95	95	95													
CAD 104,105	G14C	88	88	88	88	88	88	88	88	88	88	88	88													
CAD 106,107	G15	94	94	94	94	94	94	102	102	102	102	102	102													
CAD 108,109	G16	96	96	98	98	98	98	98	98	98	98	98	98													
CAD 110,111	G17	88	88	88	88	88	88	88	88	88	88	88	88													
CAD 112,113	G18	94	97	98	98	100	100	102	102	102	102	102	102													
CAD 114,115	G19	94	94	98	99	99	99	99	99	99	99	99	99													
CAD 116	G20AX	96	96	98	99	99	101	102	103	103	103	103	107													
CAD 117,118,119	G20B	91	91	91	91	91	91	102	102	102	102	102	102													

CONTENTS	SHEET NO.	ISSUE NO. 96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CAD 120,121,122,123	G21	96	96	96	96	96	96	102	102	102	102	106	107													
CAD 124,125,126,127	G22	91	97	98	99	99	101	102	103	103	103	103	103													
CAD 128,129,130,131	G23	96	96	98	99	99	99	102	103	103	103	103	103													
CAD 132,133	G24	96	96	98	98	98	101	102	102	104	104	104	104													
CAD 134	G25A	93	97	97	97	97	97	102	102	102	102	102	102													
CAD 135	G25B	88	88	88	88	88	88	88	88	88	88	88	88													
CAD 136	G26	88	97	97	97	97	97	102	102	102	102	102	102													
CAD 137	G27	94	97	97	97	97	97	102	102	102	102	102	102													
CAD 138,139	G28	88	88	88	88	88	88	88	88	88	88	88	88													
CAD 140,141	G29	96	96	98	99	99	99	102	102	102	102	102	102													
CAD 142	G30	96	97	98	99	99	99	102	103	103	103	106	106													
CAD 143,144,145	G31	93	93	98	98	98	98	98	98	98	98	98	98													
CAD 146	G32	95	95	95	95	95	95	95	95	95	95	95	95													
CAD 147,148,149	G33	96	96	98	98	98	98	102	102	102	102	102	102													
CAD 150,151	G34	96	96	98	99	99	99	102	102	104	105	105	105													
CAD 152	G35	69	69	69	69	69	69	69	69	69	69	69	69													
CAD 153	G36	96	96	96	96	96	96	96	96	96	96	96	96													
CAD 154	G37	96	96	98	99	99	99	103	103	103	103	103	103													
CAD 155	G38	96	96	98	98	98	98	98	98	98	98	98	98													
CAD 156	G39	96	96	98	98	100	100	100	100	100	100	100	107													
CAD 157,158	G40	94	94	94	99	99	101	102	102	102	102	102	102													
CAD 159,160	G41	96	97	98	99	99	99	102	102	102	102	102	102													
CAD 161,162,163,164	G42	96	96	98	99	99	101	102	102	102	105	105	105													
CAD 165	G43	94	94	98	99	99	99	102	102	102	102	102	102													
CAD 166,167,168,169,170,171,172	G44	96	97	98	98	98	98	98	98	98	98	98	98													
CAD 173	G45	94	94	98	98	98	98	102	102	102	102	102	107													
CAD 174,175,176,177	G46	96	96	98	99	99	101	102	103	103	103	103	103													
CAD 178,179,180	G47	96	96	98	99	99	99	101	102	103	103	103	103													
CAD 181	G48	93	93	93	93	93	93	102	102	102	102	102	102													
CAD 182	G49	74	74	74	74	74	74	102	102	102	102	102	102													
CAD 183	G50AX	96	96	96	96	96	96	102	103	103	103	103	103													
SHEET CANCELED ON DWG ISSUE 85A	G50B																									
CAD 184	G51AX	96	96	98	98	98	98	98	98	98	98	98														
CAD 185	G51B	61	61	61	61	61	61	61	61	61	61	61														

X SHEETS WITH SUFFIX "A" WERE FORMERLY WITHOUT A SUFFIX LETTER.

ISSUE 107A

MASTER TEST CONTROL CIRCUIT	SD-25800-01-A18
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S

CBL-142 (11-73)

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO. 96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CAD 186	G52	96	97	97	99	99	99	102	102	102	102	102	102													
CAD 187,188,189	G53	89	89	89	89	89	89	102	102	102	102	102	102													
CAD 190,191	G54	94	94	94	94	94	94	94	94	94	94	94	94													
CAD 192,193,194,195	G55	94	94	94	94	94	94	94	94	94	94	94	94													
CAD 196	G56	94	94	94	99	99	99	102	102	102	102	102	102													
CAD 197																										
CAD 198,199	G57	90	90	90	90	90	90	90	90	90	90	90	90													
CAD 200,201	G58	88	88	88	88	88	88	88	88	88	88	98	107													
CAD 202	G59	88	88	88	88	88	88	88	88	88	88	88	88													
CAD 203	G60	89	89	89	89	89	89	102	102	102	102	102	102													
CAD 204	G61	87	87	87	87	87	87	87	87	87	87	87	87													
CAD 205,206	G62	66	66	66	66	66	66	66	66	66	66	66	66													
CAD 207	G63	82	82	82	82	82	101	101	101	101	101	101	101													
CAD 208	G64	96	96	96	96	96	101	102	102	102	102	102	102													
CAD 209	G65	94	94	94	94	100	100	102	102	102	102	102	102													
CAD 210,211	G66	85	85	85	85	85	85	85	85	85	85	85	85													
CAD 212,213	G67	79	79	79	79	79	79	102	102	102	102	102	102													
CAD 214,217	G68	95	95	98	99	99	99	102	102	102	102	102	102													
CAD 218	G69A*	89	89	89	89	89	89	89	89	89	89	89	89													
CAD 218A	G69B	93	93	93	93	93	93	93	93	93	93	93	93													
CAD 219	G70	89	89	89	89	89	89	89	89	89	89	89	89													
CAD 220	G71A*	86	86	98	99	99	99	102	102	102	102	106	107													
CAD 220A,220B	G71B	95	95	98	98	100	100	102	103	103	103	103	103													
CAD 221	G72	94	94	94	94	94	94	102	102	102	102	102	102													
	G73A*	94	94	94	94	94	94	102	102	102	102	102	102													
CAD 222	G73B	89	89	98	98	98	98	102	102	102	102	102	102													
	G74	89	89	98	98	98	98	102	102	102	102	102	107													
	G75	89	89	98	98	98	98	102	102	102	102	102	102													
CAD 223	G76	89	89	89	89	89	89	102	102	102	102	102	102													
	G77	82	82	82	82	82	82	102	102	102	102	102	102													
CAD 224	G78	79	79	79	79	79	79	102	102	102	102	102	102													
CAD 225,226	G79	95	95	95	99	99	99	102	102	102	102	106	106													
CAD 227,228	G80	76	76	76	76	76	76	102	102	102	102	102	102													
CAD 229,230	G81	74	74	74	74	74	74	102	102	102	102	102	102													
CAD 231, 232	G82	76	76	76	76	76	76	102	102	102	102	102	102													
CAD 233,234	G83	74	74	74	74	74	74	102	102	102	102	102	102													
SHEET CANCELED ON DWG ISSUE 82D	G84																									

CONTENTS	SHEET NO.	ISSUE NO. 96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CAD 236	G85	93	93	93	93	93	93	102	102	102	102	102	102													
CAD 237	G86	85	85	85	85	85	85	102	102	102	102	102	107													
CAD 238	G87	94	94	94	94	94	101	101	101	101	101	101	101													
CAD 239,240	G88	78	78	78	78	78	78	78	78	78	78	78	78													
CAD 241,242,243	G89	95	95	95	99	99	99	102	103	103	103	103	103													
CAD 244,245	G90	96	97	97	99	100	100	100	103	104	105	106	106													
CAD 246	G91	88	88	88	88	88	88	102	102	102	102	102	102													
CAD 247	G92	96	97	97	97	97	97	102	102	102	102	102	102													
CAD 248	G93	82	82	82	82	82	82	102	102	102	102	102	102													
CAD 249	G94	92	92	92	92	92	92	102	102	102	102	102	102													
CAD 251	G95	95	97	97	97	97	101	101	103	103	103	103	103													
CAD 252	G96	89	89	89	89	89	89	89	89	89	89	89	89													
CAD 253	G97	89	89	89	89	89	89	89	89	89	89	89	89													
CAD 254,255	G98	96	96	98	99	99	101	102	103	103	103	106	107													
CAD 256	G99	96	96	96	99	99	99	99	103	103	103	103	103													
CAD 257,258	G100			98	98	98	101	102	102	104	104	104	107													
CAD 260,260A	G101											106	106													

* SHEETS WITH SUFFIX "A" WERE FORMERLY WITHOUT A SUFFIX LETTER.

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

SD-25800-01-A19

BELL TELEPHONE LABORATORIES INCORPORATED

65

CBL-142 (11-73)

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			***
1CNK	110E4	135	RR13
1LTT	51C/B6	158	RR27
2CNK	110E3	135	RR13
2LN	54A/A4	58	R40
2LTT	51C/C6	158	RR27
3DC	10A/D1	102	RR8
4W	1A/C3	49	L1
4WA	74A2	49	L1
4WB	7482	49	L1
4WC	74C2	49	L1
4WD	74F2	49	L1
4WE	74F2	94	RR5
4WF	74E2	49	L1
4WG	74D2	49	RR1
4W1R	9380	99	RR7
4WLT	3189	99	RR7
4WM	9380	99	RR7
A	59D3	125	R48
A1A	59D3	125	R48
ACD1	2A/B6	120	RR17
ACD2	121E7	156	L8
ACD3,4	121E8	156	L8
ACDA	8C/D3	160	L41
ACDT	2A/B2	120	RR17
AD	71E8	41	L3
AD	71E9	41	L3
ADD	90D8	105	RR11
ADD0,2,4,6,8	90F8	151	
ADD1,3,5,7,9	90G8	151	
AEC	104D3	127	RR18
AF	85B5	98	RR6
AGA,B	90C2	151	
AGC	90D2	151	
AGCMO-11	8C/F7	152	
AIA	71B3	41	L3
AIA1	71D3	41	L3
AIC	115E0	137	
AIC1	115E0	137	
AIC2	115F3	137	
AIC3	115D7	137	
AIC4	115E1	180	
AICT	95B/C7	3	
AIDT	68B/E6	20	R46
AILT	115E3	137	
AISM	115F2	3	

*** ALL LOCATIONS ARE ON THE CONTROL BAYS, WITH THE EXCEPTION OF RELAY RACK MOUNTED EQUIPMENT (RR-), AND ARE INDICATED AS FOLLOWS:

L
L--C
R--R

INDICATES THE LEFT, CENTER OR RIGHT SEGMENT OF THE JK, LP AND KEY PANEL

FRAME POSITION NO.

LEFT OR RIGHT CONTROL BAY

RELAY RACK MOUNTED EQUIPMENT:

RR1 SUPL 4W TST
RR2 CNTX DIAL TR
RR3 LINE IDENT TST
RR4 PAIRED LINE LINK CONT
RR5 SUPL CONTINUITY TST
RR6 4W MULTILEVEL TST
RR7 4W MULTILEVEL TST
RR8 3 DIGIT INTERCOM TST
RR9 DIRECT ACCESS PRT CONN TST
RR10 PBX BLOCK SEL HUNTING GROUP TST CONT

RR11 MTF SUPL REL UNIT A
RR12 WIDEBAND SWITCHING TST
RR13 WIDEBAND TST CONT
RR14 WIDEBAND REMOTE SWITCH REL
RR15 CHANNEL TEST
RR16 CALL WAITING
RR17 AUTO. CALL DIST TST
RR18 MAG TAPE RCDG TST
RR19 MTF SUPL REL UNIT B
RR20 MTF SUPL REL UNIT C
RR21 MTF SUPL REL UNIT C
RR22 CONTINUITY & CRC TST & PROGRESS INDENT LP CONT

RR23 TRANSVERTER TST FOR LAMA OFFICE
RR24 CKT SEL
RR25 MTF SUPL REL UNIT G
RR26 MTF SUPL REL UNIT E
RR27 PERM SIG TEST CONT
RR28 ETS UNIT
RR29 MTF SUPL REL UNIT F

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			***
ALCO,1	115F3	180	
ALT	115E6	180	
AMA	53A/B4	17	R44
ANGA	11H0	107	RR10
ANGB	118/E0	107	RR10
ANGC	118/E1	107	RR10
AR	100C3	127	RR18
ARFP	5C/D1, 5D/E4	39,154	L3, RR29
ARL	85D3	98	
ASB	47A6	8	R12
ASB	47A5	35	R12
ASDR	48/G2	48	L2
AST	77B8	62	RR1
ASTR	77D8	62	RR1
ATC	78C3	55	L43
ATLV	6A/A7	48	L2
ATMK	28A/A1	99	RR7
ATNT	3A/D6	56	L43
ATT	61A8	26	R52
ATTP	5C/D6, 5D/E1	28,39 154	L44 RR29
ATV	698/E6	64	L2
ATVA	698/G6	127	
ATVB	698/A8	127	
ATVC	698/B8	127	
AV	42A/B7	120	RR17
AVG	42A/B7	120	RR17
BAK	99G6	**127**	RR18
BB	12A5	4	R8
BB1	12A5	49	L1
BCNK	111H5	135	RR13
BN	54A/A1	11	R38
BR	100D3	**127**	RR18
BRL	56B/C7	51	L1
BRL1	56B/D8	51	L0
BSC	107B/C1	135	RR13
BSMT	105A3	135	RR13
BSNT	105H1	135	RR13
BSTK	105H1	135	RR13
BT	56A/L2	1	R4
BTG	75H3	51	L1
CAM	6192	40	L2
CAM1	71A8	41	L4
CAM2	71B3	41	L4
CAM3	2B/C5	41	L4
CAM4	698/D6	46	L3
CAM5	71A8	41	L4
CAM6	7161	40	L2
CAM7	71C8	40	L2
CAMS	2B/A5	41	L4
CATN	3A/B2	87	RR3
CB	9804	**127**	RR18
CBRL	56B/C6	110	RR1
CCSA	89A2	101	RR9
CCT	77A8	62	RR1
CDN	78A6	55	L43
CE	75C3	51	L2
CF	25H4	**86**	**RR2**
CGA	27E3	37	L45
CGB	27G3	37	L45
CHK	8A/C4	**87**	RR3
CHT	50B/G4	149	RR15
CK	68C3	125	R48
CK1	53B/B1	17	R43
CK2	53B/C0	17	R44
CK3,4	53B/B3	42	L3
CKCB	76A8	76	L44

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			***
CKD	115E5	137	
CKG	118/E5	3	R5
CL3	53A/B6	48	L2
CLK	118/E5	120	
CM3	72D6	F	R51
CMA,B	72D7	F	R51
CMC	72D8	F	R51
CNR	32D3	17	R43
CNTT	119F3	146	RR16
CO	59D2	125	R47
CO1	59C2	125	R47
CON	51A/F4	15	R42
CR	100F3	127	RR18
CRC	77C4	62	RR1
CR1	78A3	55	L43
CR1R	7881	86	RR2
CRO	78A5	55	L43
CS	9803	**127**	RR18
CSGK	27F2	7	L45
CSK	27D2	7	R9
CSK1	27C2	7	L45
CSR	498/G4	41	L3
CSRK	27E2	7	L45
CSTK	110E1	135	RR13
CSW	40A/F3	13	R37
CT1	51A/C6	15	R42
CT2	51A/C9	15	R42
CT3	51A/D9	15	R42
CT4	51A/E9	15	R42
CTA0,1,2,4,7	26B/G2	36	RR2
CTL2	12A1	86	RR2
CTM1	111C9	135	RR13
CTM2	111D9	135	RR13
CTR	9805	**127**	RR18
CTTO,1,2,4,7	26B/G4	**55**	**L43**
CTV	9804	**127**	RR16
CU0,1,2,4,7	26B/G5	86	RR2
CUTO,1,2,4,7	26B/G6	55	L43
CW1	116B1	146	RR16
CW2	116B1	146	RR16
CWCN	111C5	135	RR13
CWCV	116A1	146	
CWDS	116C5	146	RR16
CWH	116B7	146	RR16
CWH1	117F8	146	
CWK	117D8	146	RR16
CWKR	18/A5	146	RR16
CWL	117D8	146	RR16
CWLT	38/C5	146	RR16
CWM1	116C1	146	RR16
CWM2	116C1	146	RR16
CWNT	11982	146	
CWOR	2A/B3	146	
CWRL	116C7	146	RR16
CWSP	117D3	146	RR16
CWTH	116B5	146	RR16
CWTL	38/C5	146	RR16
CWTV	116A1	146	RR16
DAC	89H4	101	
DAP	38/C2	101	RR9
DAP1	8901	101	RR9
DAT	37A/C0	86	RR2
DAWB	8982	101	RR9
DCN	698/G4, H4	48	L2
DCT	55A3	1	R3
DCT1	55A3	176	

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			***
DEC	104E3	127	RR18
DIS1	56B/C1	1	R4
DIS2	56B/C2	1	RR25
DISC	104C3	127	RR18
DMS	71G6	41	L4
DNK	18C/G3	127	RR18
DR1	100G3	127	RR18
DR1A	100F9	127	RR18
DR2	100G3	127	RR18
DR2A	100G9	127	RR18
DRST	93E3	127	RR18
DS	6684	H	R13
DST	68C5	125	R47
DT	2A/C1	2	R2
DT4	78F3	86	RR2
DT5	78G3	86	RR2
DT7	78F3	87	RR3
DTF	37A/C2	86	RR2
DTR	28/A0	86	RR2
DTR1	2A/B5	86	RR2
EI	6106	99	RR7
ENCB	76G8	76	L44
ENFL	76F8	76	L44
ENTF	40B/F6	167	
EPR	5B/A6, 5A/C9	27 154	L14
ESCK	76B8	76	R41
ETRC	99D6	127	RR18
EV	75C*	51	L1
F	378/H0	13	R39
F1	983	14	R40
F2	378/F2	13	R37
FA	983	49	L1
FAA,B	73A2	30	R45
FB	378/D3	13	R39
FC	378/E2	13	R7
FCAM	40C9	41	L4
FD	378/F1	98	RR6
FDLP	79A3	55	L43
FNK	28A/A4	23	R10
FPS	45G1	99	RR7
FSO	44A/B3	V	R35
FS1	44A/A3	V	R35
FS2	44A/B3	V	R35
FT	378/H1	13	R37
FTO-3	22A/C3	87	RR3

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			***
FTAK	22A/G5	87	RR3
FTBK	22A/G5	87	RR3
FTK	220/H7	7	R9
FU0,1,2,4,7	22B/B4	87	RR3
FUAK	22B/H6	87	RR3
FUBK	22B/H6	87	RR3
FUK	22B/H7	7	R9
G1	72B3	F	R50
GLT	92A5	111	RR19
GLTA	92C5	111	RR19
GR	72B3	F	R50
GS	71E2	40	L2
HG0,1,2,4,7	24A/C6	87	RR3
HGAK	24A/H7	87	RR3
HGCK	24A/G8	87	RR3
HGK	24B/F1	7	R9
HK	18C/D7	20	R46
HMS1	53A/E8	15	R42
HMSA	53A/E8	9	R35
HN	18C/E9	20	R45
IA0	3A/D4	3	R6
IA01	48/E5	1	RR21
IA0B	108C9	135	RR13
IA0C	52B/A6	149	
IA0F	108C8	135	RR13
ID	80F4	87	RR3
IDST	1A/G8	87	RR3
IDT	80H4	87	RR3
IEC	104F3	127	RR18
IFL	12001	155	
IK	69C4	125	R47

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS			***
IMS	2B/C6	22	R3
IMS1	2B/A6	22	R3
IMT	3A/D8	41	L4
IMT1	48/G5	41	L4
IMC	2A/C4	2	R2
IOO	688/F6	7	R49
IR	2B/C4	2	R2
IRL	7209	153	
IRPT	72C2	153	
IT	44/D1	3	R6
ITI	44/C1	1	RR21
ITOO	3A/D4	3	R6
ITMP	3A/07	3	R6
ITP	3A/D5	3	R6
ITR	121D6	156	L8
ITRK	75E3	51	L1
JH4	52A/B8	13	R39
JSF	107E4	135	RR13
JSF1	107E1	135	RR13
JXW	108C5	135	

DRAWING ISSUE	
63D	G.E. AND AND
54A	G.E. AND AND
65D	JE. AND
67D	JE.
68A	JE.
71D	RJF
73D	
74A	
75B	
76D	
78D	
79A	
80D	
81A	
82D	
83A	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A22

BELL TELEPHONE LABORATORIES INCORPORATED — EDITION 6S

SD-25800-01-A22

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
	RELAYS		***
K	12A7	4	R8
K1	13A/B0	4	R7
K1A	15B/B4	167	
K2	13A/B1	4	R7
K2A	13A/F5	167	
K3	13A/B0	4	RR26
KA	13B/C3		
KACN	20A/B0	93	L2
KB	13B/C4	4	R8
KC	13B/C5	4	R3
KCCN	20A/B0	41	L2
KCH	40B/A9	10	R35
KCN	20A/B0	45	L3
KCN1	20A/B2	45	L3
KCSO	26A/A0	7	R10
KCS1	26A/A1	7	R10
KCS2	26A/A2	7	R10
KCS3	26A/A5	7	R10
KCS4	26A/F3	37	L45
KCS5	26A/A3	7	L45
KCS6	26A/A6	7	L45
KD	13B/C5	4	R8
KE	13B/C5	4	R8
KF	13B/C6	4	R8
KF2	31E9	13	R37
KFS	40B/D6	9	R36
KFTU	20A/B6	6	R11
KFU	20B/B6	6	R11
KG	13B/C6	4	R8
KH	13B/C7	4	R8
KHGA	20B/B7	6	R11
KHGT	20B/F9	6	R11
KIC	20A/B2	11	R39
KIC1	20A/B3	11	R37
KINC	31A3	13	R39
KINC1	31C3	55	L43
KITC	38A9	13	R39
KJ	13B/C7	4	R8
KJSQ	10B/C1	10	R35
KK	13B/C8	4	R8
KL	13B/C8	4	R8
KL1	80B8	87	RR3
KLL	20A/B1	86	RR2
KLT	31A9	13	R39
KLT1	31B9	11	R39
KM	13B/C9	4	RR26
KMB	38B9	12	R38
KMT9	40B/F7	9	R36
KNT	64C7	16	R44
KOR	31D3	17	R43
KOR1	12A8	17	R43
KOS	47A7	8,35	R12
KOSA	47C5	X	R12
KOSA	47D5	W	R12
KOSG	47C5	8	R12
KOSG	47D6	W	R12
KPBX	18B/A8	16	R44
KPO	11E4	112	L44
KPO1	11D4	112	L44
KR	18/B9	1	R4
KR1	18/B9	1	R4
KR2	18/H1	20	R48
KR3	58E1	1	RR21
KRA	42B/D4	9	R36
KRC1	28B/A0	7	R10
KRC2	28B/A0	7	R10
KRN	38D9	13	R39
KRS	40B9	13	R39
KSK	86C6	98	RR6
KSK1	86F9	98	RR6
KTBS	20B/B7	58,65	R40
KTF	31E6	9	R36
KTN	39A/D0	12	R38
KTN1	39A/D1	12	R38
KTN2	39A/D8	11	R37
KTN3	39A/D3	89	L7
KTN4	39A/D1	56	L43
KTN5	39A/D3	99	RR7
KTN6	39A/D4	1	RR26
KTN7	39A/D4	135	
KTN8	39A/D5	135	
KTN8A	39A/D6	135	
KTNA	39A/D2	11	R37
KTS	40B/C9	9	R36
KTSQ	44A/B6	160	L41
KTSQA	44A/B5	160	L41
KTV	68B/E6	20	R48
KV	24B/F3	6	R11
KV1	20B/B6	6	R9
KVF1	20A/B1	6	R11
KVG1	20B/B0	6	R11
KVG2	20B/B0	6	R11
KVG3	20B/B1	6	R11
KVG4	20B/B1	6	R11
KVHG	20B/B8	6	R11
L1	10083	127	RR18
L2	10083	127	RR18
LBH	58E8	118	RR12
LBS	58E8	118	RR12
LC	37B/E7	13	R39
LCP	99H6	127	RR18
LF	64G3	16	R44
LF1	64C1	16	R44
LFTO-5	55E7	90	RR4
LHC	52B/B2	2	R4
LHM	52B/B9	14	R40
LHMA	52B/A9	14	R40
LHMT	52A/F1	38	L45
LI	60B/B4	M	R10
LIA	58C8	106	RR12
LIDF	81D9	87	RR3
LIK1,2,3	4A/C9	87	RR3
LIP	5C/D8, 5D/E0	154, 17*	RR29
LITR	57A/A5	87	RR3
LK	61C6	114	RR7
LK1	55B4	14	R40
LK2	56B/C0	1	R3
LLO,1,2,4,7	41B/G4	87	RR3
LLAK	41B/D0	87	RR3
LLBK	41B/E0	87	RR3
LLES	76D8	76	R42
LLF	85A4	99	RR7
LLIK	54A/B3	13	R39
LLJ	52A/E1	38	L45
LLP	3A/B2	60,178	R5
LLP1	62B/G2	60,178	R5
LLP2	62B/G2	60,178	R5
LLP3	62B/H2	60,178	R5
LLPA	30C4	60	RR11
LLPK	30C3	60,178	R6
LLPV	38/C0	60	R6
LLS	20A/B2	133	
LO	48A/D7	49	RR1
LOK	11B00	146	RR16
LOL	94D4	109	RR11
LOLP	94F5	109	RR11
LP	63A/A6	34	R41
LP0,1	87G3	98	RR6
LP2	87H3	98	RR6
LPCK	110E0	135	RR13
LPNA	122D1	178	
LPNB	122D1	178	
LR	80C3	87	RR3
LRR	30E1	60	RR11
LRS	30D3	60	RR11
LS	50B/A6	13	R37
LSS	107A/E6	135	
LST	60B/D5	M	R9
LT	38/C4	J,K	R6
LT1	38/B4	3	R6
LV	38/C1	3	R6
LVO	11D3	146	RR16
LV1	38/B1	3	R6
LV2	6B/B5	B	R49
LV3	6A/F1	B	R49
LV4	6B/A5	B	R49
LV5	6A/F1	B	R49
LV6	6A/E7	B	R49
LV6A	6A/E6	B	R49
LV7	59C7	20	R46
LV8	18C/E9	20	R46
LVP	5C/D4, 5D/E6	39, 154	L44, RR29
LWLF	110E2	135	RR13
LWLP	110E2	135	RR13
LXW	108C5	135	RR13
M	6480	16	R44
MA	104C3	127	RR18
MBC	112C5	135	RR13
MC	10B/B6	1	R3
MC1	11A3	1	R3
MC2	11B3	1	R3
MC3	11C3	2	R2
MC4	11D3	2	R2
MC5	11E3	3	R6
MC6	11F3	9	R36
MC7	11B6	15	R42
MC8	11D6	B	R49
MC9	11E6	H	R13
MC10	11F6	44	L3
MC11	11G6	41	L4
MC12	11C6	94	RR5
MC13	11C6	51	L0
MC14	11E6	15	R41
MC15	11A3	49	L1,R41
MC16	11A/D8	97	R6
MC17	11D3	55	L43
MC18	11E3	1	R4
MC19	11F6	87	RR3
MC20	11C3	98	RR6
MC21	11B4	11	R37
MC22	11A6	1	RR21
MC23	11A/C4	1	RR25
MC24	11A/B6	1	
MFC	58A2	1	R4
MFC1	58D2	1	R4
MFC2	58D3	1	RR21
MISC	3A/D3	3	R6
MKT1	2A/B1	2	R2
MKT2	48/C2	2	R2
MKT3	48/D2	38	L45
MKT4	48/C2	1	RR21
MLVF	60A/B8	L,M	R9
MLVM	60A/B7	L,M	R9
MO1	57B/A7	1	R3
MPT	64E0	16	R44
MPTA	64E2	16	R44
MRL	56B/C4	1	R4
MS	48/A2	1	R3
MS1	48/B2	1	R3
MT8K	10B/G1	10	R35
MTCP	5B/B6, 5A/C9	27, 154	L44
MTT	61G9	24	R4
MTTA	61D9	114	RR20
MTTK	61H9	99	RR7

ISSUE 1028

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A23

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-A23

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
N	6A/G5	3	R5
N1	6B/C8	3	R5
N2	7A/B7	1	RR21
NA	13A/F1	5	R7
NA1	13A/F1	5	R7
NB	13A/F2	5	R7
NB1	13A/F2	5	R7
NC	13A/F3	5	R7
NC1	13A/F3	5	R7
NCW	117D9	146	
NCWC	117D2	146	
ND	13A/F4	5	R7
ND1	13A/F4	5	R7
NGT	63B/B3	32	R41
NGL	94D5	109	RR11
NRD	97G5	122	L5
NRST	99A3	127	RR18
NS	60B/C4	M	R10
NSA	97E5	122	L5
NST	18B/C1	M	R9
NST1	18B/A3	M	RR11
NTA	40B/E8	167	
NTB	9C4	14	R40
NTC	9F5	14	R40
NTC1	9G5	14	R40
NTC2	9H5	49	RR1
NTC3	9H5	86	RR2
NTCW	119G3	146	
NTH	52B/B9	14	R40
NTH1	52B/C9	49	RR1
NTH2	52B/C9	86	RR2
NTR	64E1	1	R3
NTRE	94B2	109	RR11
NTS	50B/E2	120	
NTT	64E0	16	R44
NTVB	119F3	146	
OBS	53C/D0	120	L42
OD	71F9	41	L3
	F8		
ODD	75B3	51	L1
OF	66C4	H	R13
OFO	75A3	51	L1
OF1	75B3	51	L1
OFF	19A3	20	R45
OFK	19B9	20	R46
OFR	82E2	86	RR2
OGT	3A/D1	3	R6
OPR	37A/C3	49	RR1
OR	2B/B2	2	R2
OR1G	2A/C3	2	R2
OR1	65B/B4	31	R2
OSC	53A/B7	17	R43
* OSG0-4	46C3	18	R12
* OSG0-11	46C3	36	R12
OSK	47D8	8,35	R12

* ONE OSG-RELAY FURNISHED PER EACH APP FIG 18 OR APP FIG 36, MAX OF 5 APP FIGURES 18 OR 12 APP FIGURES 36

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
OTL1	20A/B9	6	R10
OTL2	20B/B5	6	R10
OTL3	20A/B4	49	L1
OTL4	20B/B3	49	L1
OTL5	20A/B8	4	R7
OTL6	20A/B5	49	RR1
OTL7	20B/B2	86	RR2
OTL8	20B/B8	102	RR8
OTL9	20B/B4	102	RR8
OTL10	20A/B4	106	RR12
OTL11	20A/B3	106	RR12
OV	78D6	55	
P	49A/E3	R	L4
P1	49B/E3	R	L4
P3A	42B/G5	9	R35
P4A	42B/G6	9	R35
P5A	42B/G6	9	R35
PA	68C1	125	R48
PAR	68C3	125	R48
PBX	37A/C4	13	R39
PBX1	51A/C4	15	R42
PC	34B/G3	H	R13
PC1	72F0	F	R51
PC2	72F1	F	R51
PC3	72F1	F	R51
PCAM	71B9	167	
PCD	66E6	H	R13
PCD1	66G6	H	R13
PCR	66F6	H	R13
PCS	2B/C2	H	R13
PCS1	12288	168	RR28
PCS2	122C8	168	RR28
PCSS	122A8	168	RR28
PD	71B1	40	L2
PDK	78E3	55	L43
PDR	49B/C3	R	L4
PE	32B2	59	RR1
PER	56B/C4	59	RR1
PGA	5D/C7	154	RR29
PGB	5D/C8	154	RR29
PLB	54A/A5	99	RR7
PLL	55H1	90	RR4
PLLP	122B4	173	
PLLP(1-3)	122D3	173	
PLST	71A6	40	L2
PLTO	79C3	56	L43
PMST	51C/G3	158	RR27
PO	71C8	40	L2
POSC	71H1	40	L2
POTS	89A2	101	RR9
PR	58/C6, 5A/D9	47, 154	L44, RR29
PRD	41A/D6	120	L42
PRDK	41A/C4	56	L43
PRDY	7983	56	L43
PRE	87F2	98	RR6
PRI	87E2	49	RR1
PRL	72B4	F	R50
PRO	87B2	98	RR6
PRT	65A/B4	99	RR1
PRU	41A/D6	120	L42
PRUK	41A/C5	120	L42
PSA	42B/D4	158	RR27
PSG	42B/D3	158	RR27
PST	72F0	F	R50
PT	28/C7	F	R50
PT1	29/A7	F	R50
PTO	68A0	125	R46
PTR	68A2	125	R45
PTR1	72B5	F	R40

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
PTS	122A3	167	RR28
PTS1	122B3	167	RR28
PTS2-4	122C3	167	RR28
PU	51A/D6	15	R42
PU1	51A/D6	15	R42
RA	43F6	9	R36
RA1	42A/C3	9	R36
RA1'	42A/B3	9	R36
RA2	42A/C4	9	R36
RA2'	42A/B4	9	R36
RA3	42A/C4	9	R36
RA3'	42A/B4	9	R35
RA4	42A/C5	9	R35
RA4'	42A/B5	9	R35
RA5	42A/C5	9	R35
RA5'	42A/B5	9	R35
RAC	43G7	158	RR27
RAP1	42B/A6	9	R36
RAP2	42B/A6	9	R36
RAP3	42B/A7	9	R36
RAP4	42B/A8	9	R36
RAP5	42B/A9	9	R36
RAT1	43B8	99	RR7
RAT2	43C8	99	RR7
RATA	43D4	99	RR7
RATB	43E4	99	RR7
RAV	42A/C3	9	R35
RBT1	56A/C0	1	R4
RC	37A/C6	13	R39
RC1	67D0	125	R48
RC2	67D0	125	R47
RCD	97H5	122	
RCK	28B/A7	7	R9
RCY	42A/D6	9	R6
RD	59B2	125	R47
RDCK	73B6	123	RR20
RDR	73C6	123	RR20
RE	78C6	55	L43
REC	57B/C7	1	R3
RECE	99D6	127	RR18
REP	6B/A9	27,154	RR29,L44
REPR	1B/A6	3	RR25
REPS	3A/B0	3	RR25
REPT	6B/A7	3	RR25
REX	94A2	109	RR11
RI	54A/A1	11	R38
RIA	80G4	87	RR3
RIP	50A/A0	58,65	R40
RIW	54A/C2	135	RR12
RL	12106	156	L8
RLH	117D8	146	RR16
ROCP	49A/B1	R	L4
ROH	42B/C3	158	RR27
ROP	6A/B9	44	L3
ROT	57A/A8	17	R43
ROTP	5D/E2, 5C/C7	154,159	RR29,R43
RPLS	49B/F3	40	L3
RS0	40A3	13	R37
RS1,2	40B3	13	R38
RS3	40C3	13	R38
RS4,5	40D3	13	R38
RS6,7	40A/E3	13	R38
RS8	40A/E3	13	R38
RS9	40A/F3	13	R38
RSH	37A/C7	13	R39
RST	1A/E2	62	RR1
RTA1	113D7	135	RR13
RTA2	113D7	135	RR13
RTB1	113D7	135	RR13
RTB2	113D7	135	RR13
RTBL	99G6	127	RR18
RTFA	10A/A2	140	RR26
RTFB	11B/E8	140	RR26
RTFC	11B/E8	140	RR26
RTFD	11B/E8	140	RR26

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
RUA1	113D7	135	RR13
RUA2	113F8	135	RR13
RUB1	113D7	135	RR13
RUB2	113F9	135	RR13
RUK1	107E0	135	RR13
RV1	54A/A6	131	RR11
RWL	106A2	135	RR13
S	50B/A9	H	R13
SA	9705	122	L5
SAC	97F6	77	R5
SB	42A/B1	3	R5
SCB	53A/B2	14	R40
SCB1	53A/B2	14	R40
SD	72D6	F	R51
SDR	28/C3	2	R2
SDR1	68/D3	8,171	R49
SDR2	6A/G1	B	R49
SDR2	6A/H1	171	R49
SDR3	48/F2	11	R37
SDR4	48/D5	11	R37
SDR5	48/F2	2	R3
SDT	28/C8	N	R4
SGA	71D1	40	L2
SGB	71D1	40	L2
SIG	10A/E0	120	RR17
SK1-5	86C4	98	RR6
SKA0	86F4	98	RR6
SKAL	85H1	98	RR6
SKB0	86G4	98	RR6
SKCA	88A7	98	RR6
SKCK	88A6	98	RR6
SKF	88E9	98	RR6
SKFD	88D5	98	RR6
SKFP	45A6	98	RR6
SKFT	88E3	98	RR6
SKS	86H4	98	RR6
SKTK	85H1	98	RR6
SKTM	111D9	135	
SL	52A/C6	15	R42
SLFK	109G2	135	RR13
SLK	60B/A2	M	R10
SLKT	60B/G3	M	R10
SNR	120F3	155	L42
SR	72E2	F	R50
SRG1	48A/F3	31	R3
SRG2	65A/A4	31	R2
SRT1	2B/A2	2	R2
SRT2	65A/B3	2	R2
SSA	47D6	8	R12
SSA	47D7	35	R12
SSAA	47C7	35	R12
SSB	47D7	8	R12
SSB	47D8	35	R12
SSBA	47C8	35	R12
SSC	97C7	77	R5
SST1	47A6	8	R12

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
ST	1A/B9	2	R3
STA	77C8	62	RR1
STK	1B/C2	20	R48
STP	41C/H0	10	R35
STPA	55G3	90	RR4
SWAT	107C5	135	RR13
T	18C/C9	20	R45
TAB	68C4	125	R47
TAMA	53B/D5	117	L1,R42
TAN	34B/F3	11	R37
TB	42A/B0	3	R5
TBC	49B/D2	40	L2
TBI	54A/A2	11	R38
TBL	59C4	125	R48
TBSK	30A0	58	R40
TBT0-9	91H3	107	RR10
TC	57A/C5	13	R39
TCI	56A/C7	1	R3
TCB	67D1	20	R48
TCBT	33A/D1	7	R11
TCK	59B1	125	R47
TCLC	38/C3	101	RR9
TCT	1A/A3	127	RR18
TCT1	103G0	127	RR18
TCT2	103G1	127	RR18
TCTK	102C2	127	RR18
TCTN	102B2	127	RR18
TCTR	99B6	127	
TCTT	102C2	127	RR18
TDV	65A/F6	108	RR11
TDVA	65B/B6	108	RR11
TERK	30A5	58	R40
TH	18C/D9	20	R45
THK	18C/B7	20	R46
TI	81F5	87	RR3
TIP	51C/B6	158	RR27
TIR	56A/C4	86	RR2
TK	18C/E7	20	R46
TKCK	110E0	135	RR13
TKCT	103G1	127	RR18
TKS	40B/B3	9	R35
TKT	3A/B1	3	R5
TKT1	4B/D2	3	R5
TKT2	4B/B7	3	R5
TKT3	4B/F5	11	R37
TKT3A	4B/G5	11	RR20
TL5B	12A2	86	RR2
TL5C	12A2	86	RR2
TLES	76C8	76	R41
TLH	52A/C1	38	L45
TLVF	59A7	20	R46
TLVM	59A8	20	R46
TM	57A/B8	13	R37
TM1	95B/C6	4	R7
TM2	95B/C6	1	RR26
TMCK	98C2	127	RR18
TMK	55C3	17	R43
TND	102F6	127	RR18
TNDV	102A0	127	RR18
TNK	28A/A7	7	R41
TNM	102A2	132	RR23
TNMA	102A1	161	R45
TNMB	102A1	161	R45
TNT	103G2	127	RR18
TNTA	103G3	127	RR18
TOC	37B/E8	149	
TOL	34B/E3	11	R37
TP	67D1	125	R48

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
TRF	78B3	55,156	L43
	121E8		
TRF1	78B3	55	L43
TRIC	80G6	87	RR3
TRL	56A/C4	1	R4
TRLI	56A/C6	1	R4
TRSA	99B5	127	RR18
TRST	99B3	127	RR18
TS	8C/A2	1	R4
TS1,2	8C/B2	25	R52
TS3	8C/C2	25	R52
TS4	8C/D2	25	R52
TS5,6	8C/E2	25	R52
TS7,8	8C/F2	25	R52
TS9,10	8C/G2	25	R52
TS11	8C/H2	25	R52
TS12	8C/C2	25	R52
TS13	8C/D2	25	R52
TSCT	97C6	77	R5
TSE	92F4	111	RR19
TSEA	92C5	111	RR19
TSK	41A/C1	9	R35
TSK1	71C1	40	L3
TSK2	71C2	40	L3
TSST	97C4	122	L5
TST	98D8	127	RR18
TTA1	49B/H3	41	L4
TTC	10485	127	RR18
TTK	79A3	87	RR3
TTL	12F2	4	R8
TTL1	12A0	4	
TTL2	12A4	4	R8
TTL3	12A3	49	L1
TTL4	12A5	49	L1
TTL5	12A2	55	L43
TTL6,7	12A3	56	L43
TTL8	12A1	56	L43
TTL9	12A0	102	RR8
TTL10	12A0	106	RR12
TTL12	12A5	135	RR13
TTL13	12B1	135	RR13
TTS	45G1	99	RR7
TTV	98G1	127	RR18
TV	3B/C6	8	R49
TV	3B/B5	171	R49
TV1	3B/B6	8	R49
TV1	68B/E4	171	R49
TV2	68B/A5	8	R49
TV2	68B/D6	171	R49
TV3	11A/D6, 68B/B5	8, 171	R49
TV3	68B/B5	8	R49
TV4	68B/B5	8	R49
TVA	6A/C4	44	L3
TVK	69B/A4	29,171	L44
TVK1	69A/B0	29,171	L44
TVK1	69A/G2	175	
TVT	68B/D6	125,127	R46
TVT1	98G2	127	RR18
U	18C/D9	20	R45
UAK	18B/A2	58	R40
UCK	59B1	20	R47
UK	1dC/F7	20	R46
ULF	110E2	135	RR13
ULLT	4B/H2	1	RR21
ULP	110E1	135	RR13

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
VER1	2986	7	R9
VER2	5A/H6	L,M	R9
VER3	12A7	5	R7
VER4,5	13A/F0	5	R7
VER6	29C7	M	R9
VER7	5A/H6	M	R10
VER8	26A/G3	37	L45
VER9	29A5	7	L45
VER10	12A8	49	L1
VERA	12A8	100	L2
VFO-4	25C6	87	RR3
VFA	68B/G6	B	R49
VFK	25H3	7	R9
VFIK	25H3	87	RR3
VG0,1,2	23A/A0	87	RR3
VG4,7,10	23A/A9	87	RR3
VGA	208/F7	6	R11
VGAK	23A/H1	87	RR3
VGBK	23A/H2	87	RR3
VGK	23B/H0	7	R9
VGT1	23A/A1	6	R6
VLB	112E5	135	RR13
VLBK	112B5	135	RR13
VLR	112F5	135	RR13
VLRK	112C5	135	RR13
VTS	110E5	135	RR13
W	18B/A9	16	R43
WB	105C2	135	RR13
WBH	105A2	135	RR13
WBLC	105D5	135	RR13
WBLK	108C9	135	RR13
WBNT	9F5	135	RR13
WBT	10582	135	RR13
WBT1	105D2	135	RR13
WBT2,3	105E2	135	RR13
WBT4,5	105F2	135	RR13
WBT6	10582	135	RR13
WBT8	105G2	135	RR13
WBTK	107C5	135	RR12
WCHA	107E3	135	RR13
WCK	107E0	135	RR13
WCST	3B/A3	135	RR13
WDC1	107F1	135	RR13
WFA	106E7	135	RR13
WFAK	37B/E6	135	RR13
WFB	106E7	135	RR13
WFBK	37B/E5	135	RR13
WFLG	106B2	135	RR13
WHMO	113A0	135	RR13
WHMT	114F6	135	RR13
WHS	106D2	135	RR13
WJH1,2	108F5	135	RR13

DESIG	LOCATION FS	APP FIG	EQPT
RELAYS ***			
WL00-39	113H8	136	RR13
WLB	11105	135	RR13
WLH1,2	108F4	135	RR13
WLK	107E2	135	RR13
WLV	105C2	135	RR13
WLV1	105F5	135	RR13
WLVF	114C6	135	RR13
WLVK	11486	135	RR13
WLXP	106C2	135	RR13
WM8	108G1	135	RR13
WMT	10582	135	RR13
WMT1	105E5	135	RR13
WR (00-39)	20A/D7	139	RR14
WRS	105E5	135	RR13
WRSK	105C5	135	RR13
WRT	108G0	135	RR13
WSD	45A6	9	R35
WT	40A/H3	135	
WTB	58G7	118	RR12
WTH1,2	108F6	135	RR13
WTK	106E2	135	RR13
WTKB	111E5	135	RR13
WTL	107E2	135	RR13
WTLH1,2	105A7	135	RR13
WTRP	5C/D0, 5D/E3	135, 154	RR13 RR29
XFT	41A/C0	9	R36
XHG	8349	87	RR3
XHGA	8389	87	RR3
XI	8309	87	RR7
XL	83C9	87	RR3
XM	658/B7	89	L45
XMA	658/C6	89	L45
XPTL	88H2	98	RR6
XSK	86D6	98	RR6
XSKA	86F9	98	RR6
XTG	88G2	98	RR6
Z	18B/B9	16	R44

DRAWING ISSUE: 75B, 76D, 78D, 79A, 80D, 82D, 83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A24

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CBL-176 (9-68)

APPARATUS INDEX

DRAWING ISSUE 82D CB 83A CB

CAPACITORS ***

DESIG	LOCATION FS	APP FIG	EQPT
GL	92D1	111	RR19
LLF	63A/C5	34	R41
LR	80C6	87	RR3
NGF	63A/B5	34	R41
PTO	68B1	125	R45
PTR	68B3	125	R48
SKF	88E7	98	RR6
SKF1	88D6	98	RR6
SLK	60B/F2	M	R9
SLKT	60B/F0	M	R9
TN	49C6	40	L2
TNI	49C6	40	L2

COMPONENT ASSEMBLIES ***

DESIG	LOCATION FS	APP FIG	EQPT
AI	SEE APP FIG	180	
AIA		180	
AIB		180	
AIC		180	
AID		180	
CAO		87,98, 135	RR3,6, 13
CAI		149	RR13
CA2		135	RR13
CB		127	
PST		158	
PTS		167	
PTSI		167	
PTS2		167	
NGA		173	
NGB		173	
SA		173	
SB		173	
SK		98	RR6
TBTA		173	
TBTB		173	
TBUA		173	
TBUB		173	

DIODES ***

DESIG	LOCATION FS	APP FIG	EQPT
A(0-3)	11505	180	AI
A(4-7)	11505	180	AIA
A8,9	11505	180	AIB
ACD	53B/D1	120	RR17
ACD1	8A/G6	120	
ACD2	40B/G7	120	
AIC	115C7	137	
AIC1	54A/C1	137	
AIC2	11568	137	
B(0-3)	11505	180	AI
B(4-7)	11505	180	AIA
B8,9	11505	180	AIB
C(0-9)	11505	180	AIC
CB0	98C1	127	CB
CB1,2	98C0	127	CB
D(0-9)	1506	180	AID
DIS	56B/C0	127	CB
DIS2	56B/D2	1	RR25
DMF	26A/C7	167	PTSI
EBN	54A/F1	167	PTS2
ERI	54A/E1	167	PTS2
ETBI	54A/E2	167	PTS2
FS	40B/D5	167	PTS
J1	108/C2	155	
J4	108/B2	155	
ID	80B5	167	RR3
K2	13A/H5	167	PTSI
KAMA	8B/E7	2	
LAMC	48/D7	3	
LB	108E3	135	RRI3
LWLF	110E2	135	
NF	40B/F5	167	PTS
NGA(0-9)	63B/D2-F2	173	
NGB(0-9)	63B/F2-H2	173	
NSA	97E4	122	L5
NT	40B/C8	167	PTS
PK	51C/F3	176	
PLLP	12284	173	SA
RST	99A3	127	
RTF	118/G7	140	
SA	97E4	122	R36
SA(0-9)	188/E4,E5	173	
SB(0-9)	188/E6,E7	173	
SDRA	3109	2	
STS	8586	99	RR24
TBI	54A/C2	11	
TBTA(0-9)	62A/B3,C3	173	
TBTB(0-9)	62A/D3,E3	173	
TBUA(0-9)	62A/F3	173	
TBUB(0-9)	62A/F3	173	
TCTR	9987	127	
TMI	54B/D4	167	PTSI
TM2	54B/D4	167	PTSI
TNK	28A/C7	7	
TNT	1036Z	127	
TS	40B/C7	167	PTS
ULF	110E1	135	
VER	13A/G0	167	PTS
WD00-2	108D4	135	RRI3
WL00-39	113G8	136	RRI3
WR00-39	20A/A7	139	RRI4
WRDR	20A/F6	135	RRI3

INDUCTORS ***

DESIG	LOCATION FS	APP FIG	EQPT
CSR	49A/G3	41	L3
RO	49C3	R	L4
SRG	48A/F4	31	R2

JACKS

DESIG	LOCATION FS	APP FIG	EQPT
PTO	68C0	126	R46
PTR	68C2	126	R47

KEYS ***

DESIG	LOCATION FS	APP FIG	EQPT
+0	SEE APP FIG	13	R19L
+0NN		13	L19L
ICTF		134	L4L
ILTT		158	
+ISE		13	L19L
+ITB		13	R19L
2CD		4	L19C
2CTF		134	L4L
2DT		11	L19L
2DTI		11	L19L
2DTO		11	L19L
2DTT		11	L19L
2LTT		158	
2MB		13	R19L
2SA		13	L19L
2NCB		76	L19L
2WD		76	L19L
3DC		103	L19C
+3FB		13	R19L
+3NA		13	L19L
4DG		88,163	L19L
+4NE		13	L19L
4ONL		49	L45R
+4TT		13	R19L
4W		76	L19L
4WCT		99	L19L
4WM		76	L19L
5DG		88,163	L19L
+5MT		13	R19L
+5ST		13	L19L
+6FT		13	R19L
+6NT		13	L19L
6DB		3	R19L
7DG		58	L28C
+7RN		13	L19L
+7TP		13	R19L
+8MP		13	R19L
+8SP		13	L19L
+9FP		13	R19L
+9NP		13	L19L
11		17	L19L

KEYS ***

DESIG	LOCATION FS	APP FIG	EQPT
*A0-9	SEE APP FIG	4	L19C
**AB		11	L19L
*ABC		4	L19C
ACD		41	R19L
ACDT		120	L11L
AD		16	L19L
AGC		105	L19L
AGCM		105	
AIRI		144	R35R
AIS		13	L19L
ALB		98	L19L
ALT		180	
AN		9	L19R
ANI		47	R19L
ANSE		128	L5L
ANY POS		53,54,82	L19R
API		112,116	L21C
ATC		55	L19C
ATDL		128	
ATLV		48	L19C
ATNT		68	L19C
ATT		86	L19C
AV		120	L11L
AVG		120	L11L
*B0-9		4	L19C
BB		4	L19C
BCN		134	
BIO		44	R19L
BII		44	R19L
BLV		164	
BPI		112,116	L21C
BRL		51	L19R
BSC		134	
CNR		17	L19R
CNT		13	L19R
CNTX		55	L19C
CON		15	L19R
CONA		94	L19R
CPN		51	L19R
CPTI		96,112	L19C
CRUO-9		7	L19R
CSGA,B		7	L19C
CSL		86	L19C
CSTO-9		7	L19L
CSUO-9		7	L19L
CSW		4	SPL
CTAD		62	L19L,R
CTL2		86	L19C
CTLB,C		86	L19C
CTMB		20	L19L
*C0-9		4	L19C
CA		41	R19L
CAM		17	L19C
CAMO		41	R19L
CAMI		41	R19L
CAM2		41	R19L
CAM3		41	R19L
CAMA		47	R19L
CAMS		70	R19L
CAT		40	R19L
CATN		86	L28C
CBRL		110	L19L,R
CCM		62	L19L,R
COCO,1		179	
CON		55	L19C
CDTI		96,112	L19C
CDTT		179	
CGB		37	L19R
CGLS		55	L19C
CHO-9		10	L19R
CHS		128	L5L
CHT		148	L35R

KEYS ***

DESIG	LOCATION FS	APP FIG	EQPT
CWCN	SEE APP FIG	134	L4L
CWCV		145	
CWH		145	R18
CWNT		145	
CWTV		145	R18
*D0-9		4	L19C
DAPA		101	L19R
DAPB		101	L19R
DAT		86	L19C
DCK		13	L19R
*DEF		4	L19C
DF		134	
DISE		128	L5L
DL3		4	L19C
DL4		13	L19L
DL6		4	L19C
DNC		41	R19L
DOC		140	
DR		128,156	L5L
DT		67,156	L19C
DTF		86	L19C
DYTS		158	
E		11	L19C
*E0-9		4	L19C
EBH		16	L19R
ETHC		11	L7L
*F0-9		4	L19C
FAA		30	L19C
FAB		30	L19C
FACD		17	L19R
FAD		17	L19C
FC		41	R19L
FCG		15	L19R
FCGA		94	L19R
FCGB		86	L19C
FGO		U,79	L19C
FGI		U,79,80	L19R
FG2		79,80	L19R
FNA		23	L19R
FNB		23	L19R
FS		9	L19R
FSO-9		U,79	L19R
FTO-3		S	L19L
FTO-9		T	L19L
FUO-9		6	L19L
**FVD		11	L19L
FVDO		11	L6L
FVDT		11	L19L
FWDC			
*G0-9		4	L19C
GESK		76	L19C
*GHI		4	L19C
GLIM		129	
GLMN		111	L19L
GLMX		111	L19L
GPA		9	L19R
GPB		9	L19R
GT		15	L19R
*H0-9	SEE APP FIG	4	L19C
HFA		17	L19C
HGO-9		6	L19L
HLO		31	L19L
HT-MBO-9		12	L19R
HTR		7	L19R
IAO		68	L19C
IAOB		134	L3L
IAOF		134	L3L
**IC		11	L19L
IC-AB		11	L19L
IC-FVD		11	L19L
IC-NTAN		11	L19L
IC-OA		11	L19L
IC-OAT		11	L19L
IC-OB		11	L19L
IC-OBT		11	L19L
IC-PC		11	L19L
IC-TAN		11	L19L
IC-TF		134	
IC-TOL		11	L19L
IDO,1		87	L19C
IMS		69	L19C
IMT		70	R19L
INC		67	L19L
INH		105	L19L
IOO		7	L19C
IR		75	L19C
IRLK		153	
IRPT		7	
IST		62	L19L,R
ITO-3		51	L19R
*ITC-RNO-9		13	L19L
ITDO		68	L19C
ITNP		68	L19C
ITP		68	L19C

NOTES:

*(ITC-RN) KEY CARRIES LETTER DESIGNATION AS FOLLOWS:

	(WL)	(WK)		(WL)	(WK)
0.	NN	-	5.	ST	MT
1.	SE	TB	6.	NT	FT
2.	SA	MB	7.	RN	TP
3.	NA	FB	8.	SP	MP
4.	NE	TT	9.	NP	FP

*A(0-9)-L(0-9) KEYS CARRY LETTER DESIGNATIONS AS FOLLOWS:

2. ABC
3. DEF
4. GHI
5. JKL
6. MNO
7. PRS
8. TUV
9. WXY

**(IC) KEY HAS TEN PUSHBUTTONS DESIGNATED AS FOLLOWS:

AB,FVD,NTAN,OA,OAT,OB,OBT,PC, TAN & TOL

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A26

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-A26

CBL-176 (9-68)

APPARATUS INDEX

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			
*J0-9		4	L19C	
*JKL		4	L19C	
JSF		134	L4L	
JSQ0-5		10	L19R	
*K0-9		4	L19C	
KAMA		20,172		
KCS		7	L19R	
KRC		4	L19C	
KY		4	L19C	
*L0-9		4	L19C	
L5D		126,128	L19L	
LA0,1		4	SPL	
LA2		4	SPL	
LAMC		20,172		
LB		15	L19R	
LBL		15	L19R	
LCD1		41	R19L	
LCD2		41	R19L	
LD		155		
LES	SEE APP FIG	76	L19C	
LGT		15	L19R	
LIDK		86	L19C	
LK		F	L19C	
LLAT		86	L19C	
LLPT		60,177	L19R	
LLS		7		
LO		94	L19R	
LOLL		109	L19R	
LOMO		44	R19L	
LOMI		44	R19L	
LP0-11		33	L19R	
LPT		143	R18	
LR		13	L19R	
LST		126,128	L19L	
LT		68	L19C	
LT1		17	L19L	
LT2		17	L19L	
LT3		11	L19L	
LTH		144	R35R	
LTNO		144	R35R	
LVOK		145		
MF		1	L19R	
MFEB		90	L19R	
MFSB		90	L19R	
MISC		68	L19C	
MLF		1	L19R	
MLV		68		
*MN0		4		
MT0		21		
*MT0-11		21		
*MT0-9		19		
MT1-4		19,21		
MT5-8		21		
MT9		21		
MTT1		81	L19R	
MTTA		114	L19L	

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			
NAH		55	L19C	
NARL		56	L19C	
NATT		86	L19C	
NBA		128	L9L	
NCSL		86	L19C	
ND		13	L19R	
NETS		166		
NFG0,2		55	L19C	
NG1K		165	L19R	
NG2K		165	L19R	
NG2S		107	L42R	
NGBS		107	L19R	
NGA-H		32	L19R	
NGPA		104	L19L	
NGPB		104	L19L	
NGT		32	L19R	
NH		13	L19R	
NID		7	L19C	
NIT		51	L19R	
NLES		76	L19C	
NLL		109	L19R	
NLP		109	L19R	
NN		13	L19R	
NOLL		109	L34R	
NOTT		148		
NPC		114	L19L	
NROH		158		
NSA		122		
NT		13		
**NTAN	SEE APP FIG	11		
NTC		14		
NTES		76		
NTFS		9		
NTIL		144		
NTL		13		
NTLS		97		
NTRE		109		
NTTS		9		
NTVH		145		
NWCX		134		
NWL		134		
**OA		11	L19L	
**OAT		11	L19L	
**OB		11	L19L	
OBS		129	L19L	
**OBT		11	L19L	
OCN		12	L19R	
OD		16	L19L	
OESK		76	L19C	
OFF0-5		D	L19C	
OFT1,2		57	L19C	
OGT		68	L19C	
OI1,2		57	L19C	
OP		40	R19L	
OR		67	L19C	
ORC0-2		41	R19L	
ORIG		67	L19C	
OS0-4		83,8	L19R	
OSS		8,35	L19R	
OT		F	L19C	
OTRC		7	L19L	

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			
P&LO		4	L19C	
PAIRI		144		
PBXH		16	L19R	
**PC		11	L19L	
PCAM		169		
PCD		H	L19L	
PCDI		H	L19L	
PCS		169		
PD		17	L19R	
PEMT		92	L19L	
PERT		92	L19L	
PHC		11	L19L	
PLLP		166		
PMM		17	L19R	
PR		92	L19R	
PRL		F	L19C	
*PRS		4	L19C	
PS		17	L19R	
PSTI		82,164	L19R	
PTL		16	L19R	
PTR		F	L19C	
PTS		166		
PTT		72	L19C	
PU		15	L19R	
RA0-3		9	L19C	
RALO-3		128	L9L	
RAT1		9,99	L19R	
RAT2		99	L19R	
RBT		91	L19L	
RC1-10		7	L19C	
RC1-15		7	L19C	
RCH1,2		128	L29C	
RCT1		7	L19C	
RDT		17	L45R	
RE		109	L19R	
REC		1	L19R	
RECE		128	L7L	
REP		3	L19R	
RIP		58,65	L19C	
RL		1	L19R	
RLH		145	R18	
RLK		F	L19C	
RLO		153		
RLT		31	L19L	
RMB		20	L19L	
RNT2		16		
RO		13	L19L	
ROP		44	R19L	
ROT		17	L19R	
RPLS		44		
RST		128	R33R	
RTO-3		50	L19R	
RTA0-4		155		
RT8L		126	L19L	
RTF1		140		
RTF2		140		
RIRF		55	L19R	
RV		15	L19R	
RVT		134	L4L	

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			
SO-9		16	L19R	
SIL-4L		126	L19L	
SA		122	L44R	
SCN		17	L19R	
SDR		67	L19C	
SDT		73	L19C	
SDT1		20	L19L	
SDT2		20,170	L19L	
SDT3		20	L19L	
SEL POS		53,54,82	L19R	
SFAL		126	L19L	
SGA		8,35	L19R	
SGB		8,35	L19R	
SGT1		85	L19R	
SIL		144		
SKAL		98	L19L	
SKTK		98	L19L	
SLFK		134	L4L	
SLT1		62	L19L,R	
SMPL		103	L19R	
SP		128	L9L	
SPL		11	L19R	
SQI		155		
ST		1	L19R	
STAA		62	L19L,R	
STAD		62	L19R	
STC		128	L29C	
STE		26	L19R	
STP1		10	L19R	
STP2		10	L19R	
STRC		62	L19R	
SUB		105	L19L	
TACD		120	L11L	
TAD		179		
TAMA		8		
**TAN		11	L19L	
TAS		179		
TBL		128	L9L	
TC		15	L19R	
TCB		7	L19R	
TCLA		101	L19L	
TCLB		101	L19R	
TCLC		101	L19R	
TCNT		128	L29C	
TCP0		20		
TCT		15	L19R	
TDV		108	L19R	
TES		76	L19C	
TG		1		
TGB		140		
TGTS		130	L44R	
THC		11	L19L	
THT1		12	L19L	
THT2		12		
THT3		12		
TI		86	L19C	
TI1		44	R19L	
TI2		44	R19L	
TI3		44	R19L	
TICB		126	L19L	
TICG		126	L19L	
TKK		128	L9L	
TLLT		20	L19C	
TLV		20	L19L	
TMRT		179		
TMT		170		
TOBS		17	L19C	
TOF		126,128	L19L	
**TOL		11	L19L	
TP		17	L19R	

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			
TR2		1	L19R	
TREC		179		
TRF		55,156	L19C	
TRNO		20	L19C	
TRC		20	L19L	
TRR		91	L19L	
TRS		1	L19R	
TRT		121	L19C	
TRTF		87	L19C	
TRTI		87	L19C	
TS		9	L19R	
TS0-19		9	L19R	
TSA		160		
TSCT		130	L44R	
TSLT		20	L19C	
TSTI		9	L19R	
TST CNSL		56	L19C	
TST POS		53,54	R19L	
TTC		9	L37R	
TT-CP0-9		12	L19R	
TTH		156		
TTI		11	L19L	
TTL		4	L19C	
TTN0		121	L19C	
MTUV TVT		4	L19C	
		71	L19C	
TVTI		20	L19L	
TVTC		47	R19L	
ULLT		17	L45R	
UT0-9		12	L19R	
VF0-9		6	L19L	
VG0-13		6	L19L	
VGT1		6	L19C	
VLB		134	L4L	
VLK		134	L4L	
VLO		134	L3L	
VLR		134	L4L	
VTC		41	R19L	

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			
WAT		134		
WBCX		134		
WBT		134	L3L	
WBT0,1,2		134	L3L	
WC0		134	L3L	
WLB		118	SPL	
WMB		134	L3L	
WN		106	SPL	
WODT		134	L4L	
WROR		134	L4L	
WRLO		134	L3L	
WRS		134	L3L	
WRS1,2		134	L3L	
WRV		106	SPL	
WSOT		134		
*WXY		4	L19C	
XII		17	L19L	
XHG		87	L19C	
XHGA		87	L19C	
XI		87	L19C	
XL		87	L19C	
XLH		15	L19R	
XLLC		134		
XLSS		134		
XRCP		134	L4L	
XTC		128	L9L	
XTMP		134	L4L	
XWLH		134	L3L	
XWR		134		

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT	***
	KEYS			

NOTES:

*A(0-9)-L(0-9) KEYS CARRY LETTER DESIGNATIONS AS FOLLOWS:

2. ABC	6. MNO
3. DEF	7. PRS
4. GHI	8. TUV
5. JKL	9. WXY

**(1C) KEY HAS TEN PUSHBUTTONS DESIGNATED AS FOLLOWS:

AB,FVO,NTAN,OA,OAT,OB,OBT, PC,TAN & TOL

DRAWING ISSUE 82D CB

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A27

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-A27

CBL-176 (9-68)

DESIG	LOCATION FS	APP FIG	EQPT
	LAMPS		***
1	40D6	13	L19L
1+	40D6	13	L19L
1CNK	110A3	134	R46R
2	40B6	13	L19L
2+	40B6,E6	13	L19L
2CNK	110A3	134	R46R
2LN	54A/C8	58	L19C
2WLL	62E3	61	L19L
2WTL	62C3	61	L19L
3	40B6	13	L19L
3+	40B6	13	L19L
4	40C6	13	L19L
4W	74G2	49	L19L
4WLL	62G3	99	R19L
4WTL	62A3	61	L19L
5	40C6	13	L19L
ADD	90C7	105	L19L
ADDO-9	90C7	151	
AEC	103D7	128	L13BL
AGC	90A7	105	L19L
ALM	90B7	105	L19L
APTT	61C9	40	L19L
ARET	5C/C0, 5A/A3	39, 138	L46BR
ARL	85E3	98	R19L
ATC	78C3	55	L19C
ATNT	4A/G1	56	L19R
ATT	61A9	26	L19C
AV	42A/A9	120	L13AL
AVG	42A/A9	120	L13AL
BAK	99A8	128	L13CR
BN	54A/C6	11	L19L
BRL	56B/B7	51	L19R
BT-OF	56A/A7	1	L19C
BY	40G6	13	L19L
CAMA	71D8	41	L19L
CB	79D3	56	L19C
CBRL	56B/A7	110	L19L
CBY	98G4	128	L13BL
CCSA	89C1	101	L19R
CCT	77A4	62	L19L
CDN	78A5	55	L19C
CK	53B/A2	17	L19L
CK2	53B/A2	42	L19L
CKCB	76G7	76	L13CL
CM3	72A6	F	L19C
CMA	72A7	F	L19C
CMB	72A7	F	L19C
CMC	72A7	F	L19C
CNR	32E3	17	L19L
CNTT	119D2	145	121F1
CRL	116E4	145	L46AR
CS	98G4	128	L13BL
CSI		150	
CTAO,1,2,4,7	26B/F7	86	R19L
CTTO,1,2,4,7	26B/F8	55	R19L
CTR	98G4	128	L13BL
CTV	98G3	128	L13BL
CUO,1,2,4,7	26B/F7	86	R19L
CUTO,1,2,4,7	26B/F9	55	R19L
CWCN	111B6	134	R46R
CWH	116H1	145	L46AR
CWK	116E1	145	L46AR
CWL	116D1	145	L46AR, R30CC
CWSP	116G1	145	L46AR
CWT	117D1	145	
CWTH	116D4	145	L46AR
DAT	37A/D1	86	L19C
DAWB	89F1	101	R46R
DEC	103D8	128	L13BL
DISI	56B/A5	1	L19C
DISC	103A8	128	L13BL
DNK	18C/F9	128	L13BL
DRST	98G2	128	L13BL
DT	4A/A1	2	L19R
DT7	78D1	87	L13AL
DTF	37A/D1	86	L19C
E1	61D9	99	R19L
EC	77C4	62	L19L
ENCB	76H7	76	L13CL
ENFL	76H7	76	L13CL
ES	76G7	76	L19L
FL	28A/A6	13	L19L
FLI	40E6	13	L19L
FP	45H1	99	R19L
G1	72A1	F	L19C
GR	72A2	F	L19C
HD	72D1	F	L19C
IAO	4A/C4	3	L19R
IAOB	108F8	134	R46R
IAOF	108F8	134	R46R
IEC	103D9	128	L13BL
IMS	4A/F4	22	L19R
IMT	4A/H4	41	L19R
INC	4A/A4	2	L19R
INH	90B7	105	L19L
IR	4A/F1	2	L19R
IRL	72A8	153	
ITDO	4A/D4	3	L19R
ITNP	4A/D1	3	L19R
ITP	4A/H1	3	L19C
ITR	121F6	156	
JSF1	107C0	134	B46R
KR	1B/A8	138	L46CR
LB	79E2	56	L19C
LCP	99D5	128	L13CL
LCT	97B4	122	L13BL
LD	120D1	155	
LDK	120E0	155	
LF	64F8	16	L19C
LHMT	52A/F4	38	L19C
LIDF	81F8	87	L19C
LIDM	81E8	87	L19C
*LIT	-	-	L19C
LK2	56B/A4	1	L19C
LLAT	79A5	87	L19C
LLJ	52A/E4	38	L19C
LO	48A/G7	49	L19C
LOK	116E4	145	L46AR
LOLP	9445	109	L19R
LPO	37E1	98	R19L
LP1	87F1	98	R19L
LP2	87G1	98	R19L
LPCK	110A1	134	R45R
LR	80B8	87	L19C
LRFTO,1	62D5	61	L19C
LRFT2	62C5	61	L19L
LRFT3-5	62A5	61	L19L
LRFU0-9	62F5	61	L19L
LT	4A/B9	3	L19R
LVO	116F1	145	L46AR
LW.F	110A2	134	R46R
LWLP	110A2	134	R46R
M	64F9	16	L19C
MA	103A8	128	L13BL
MBF	115G4	144	
MISC	4A/E4	3	L19R
MLV	4A/E1	3	L19R
MLVF	60B/H6	L,M	L19C
MLVM	60B/D6	L,M	L19C
MRL	56B/A5	1	L19C
MTT	61B9	24	L19C
NCW	116E1	145	L46AR
NCWC	116F1	1	
NRD	97G5	122	L13CL
NRST	9985	128	L13BL
NSA	97E5	122	
NTB	9A3	14	L19C
NTCW	11982	145	L19C
NTT	64F8	16	
NTVB	119C2	145	
OFL	40F6	13	L19L
OGT	4A/E4	3	L19R
OPR	37A/D8	49	L19L
OR	4A/B1	2	L19L
ORIG	4A/B4	2	L19R
OTL	106G2	134	R30CC
PBX	37A/D8	13	L19L
PC	34B/H4	H	L19L
PE	56B/A6	59	L19C
PG	5A/B9	138	
PLB	54A/C8	99	L19L
PLTO	79A5	56	L19C
PO	79F2	56	L19C
POF	66F9	H	L19L
POSC	71H5	40	L19L
POTS	89D1	101	L19R
PR	37A/D9	49	L19L
PRB	5A/A9	138	
PRD	41A/B7	120	R30CC
PRL	72A2	F	L19C
PRU	41A/B7	120	R30CC
PSG	42B/H5	158	
PTR	72A2	F	L19C
PTT	4A/F1	F	L19R
RA0	43A8	99	L19R
RA1	43D8	9	L19R
RA2	43A8	9	L19R
RA3	43F8	9	L19R
RA4	43C8	9	L19R
RA5	43E8	9	L19R
RA6	43A8	9	L19R
RA7	43E8	9	L19R
RA8	43C8	9	L19R
RA9	43F8	9	L19R
RA10	43B8	9	L19L
RA11	43D8	9	L19L
RAT1	43F8	99	L19R
RAT2	43G8	99	L19R
RBT1	56A/A7	1	L19C
RC	77A5	62	L19L
RCD	97H5	122	L13CL
RCY	42A/A2	9	L19C
RDK	73D7	123	L46BR
RDR	73D7	123	L46BR
RI	54A/C7	11	L19L
RIP	54A/C6	58,65	L19C
RIW	54A/A7	134	R46R
RL	121F5	156	
ROH	42B/C5	158	
RON	65A/B4	31	L19L
ROP	6A/G3	44	L19L
	99B5	128	L13BL
RT1K	114C9	134	R46R
RT2K	114D7	134	R46R
RTBL	9903	128	L30CC
RU1K	114C9	134	R46R
RU2K	114D9	134	R46R
RV	54A/C9	131	L46BR
SA	9705	122	L13C
SAC	97C7	77	L19C
SB	42A/A3	3	L19C
SD	72A6	F	L19C
SDR	4A/C1	2	L19R
SK1-5	88A9	98	R19L
SKA0	88B9	98	R19L
SKB0	88C9	98	R19L
SKFP	88C9	98	R19L
SKFT	88D9	98	R19L
SKS	86G9	98	R19L
SLK	608/H1	M	L19C
SNR	120D3	155	
SPBL	79F2	56	L19C
SSC	97G7	77	L19C
ST	77D8	62	L19L
STL	77E4	62	L19L
STP	55H2	90	
STT	4A/A9	138	
SWAT	107C1	134	
TAN	34B/F4	11	L19L
TB	42A/A2	3	L19C
TBI	54A/C7	11	L19L
TCI	56A/A9	1	L19L
TCT	51A/F9	15	L19C
TCTA	51A/G9	94	L14BL
TCTX	102D2	128	L13BL
TCTR	99E5	128	
TGTI	42A/A2	12C	L13AL
TIR	56A/A8	86	L19C
TKCK	110A0	134	R46R

* (LIT) LAMP IS PART OF LINE INSULATION TEST CKT BUT IS MOUNTED WITH LAMPS OF THIS CKT.

82D CB
83A CB

ISSUE 98B

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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SD-25800-01-A28

6S

C8L-176 (9-68)

0 1 2 3 4 5 6 7 8 9

DESIG	LOCATION FS	APP FIG	EQPT
LAMPS			**XXX**
TLH	52A/D4	38	L19C
TLV	6A/F3	8	L19R
TLVF	59G8	20	L19C
TLVM	59G9	20	L19C
TNK	28A/A5	7	L19L
TOL	34B/E4	11	L19L
TP	40F6	15	L19L
TPO.1	87C1	98	R19R
TP2	87D1	98	R19R
TRF	78C3	55	L19C
TRL	56A/A8	1	L19C
TRL1	56A/A9	1	L19C
TSC1	97B7	77	L46BP
TSK	108/C5	9	L19C
TST	98G4	128	L13AL
TTC	103A9	128	L13BL
TTI	106G2	134	R30CC
TTO	106G2	134	R30CC
TVK	69A/H1	8	
TVT	4A/G4	8	L19R
ULF	110A1	134	R46R
ULP	110A1	134	R46R
VLB	112E8	134	R46R
VLBK	112F8	134	L13AL
VLR	112G8	134	L13AL
VLRK	112G8	134	L13AL
WBLK	108F9	134	L13AL
WBTK	114E9	134	L13AL
WCK	107C0	134	L13AL
WHMO	114A9	134	L13AL
WHS	106E2	134	L13AL
WLVF	114C9	134	L13AL
WLVK	114B9	134	L13AL

DESIG	LOCATION FS	APP FIG	EQPT
LAMPS			**XXX**
WMB	109E1	134	L13AL
WMC	109H2	134	R46R
WROL	105F5	134	L13AL
WRSK	114B9	134	L13AL
WRTL	105G5	134	L13AL
WTB	58G7	118	L19R
WTK	106F2	134	L13AL
XFT	41A/B6	9	L19C
XM	65B/A3	89	L19L
XSK	8669	98	R19L
XTSK	108/C5	9	L19C
Z1,2,4,8	90A7	105	L19L
Z16,32,64	90A7	105	L19L

DESIG	LOCATION FS	APP FIG	EQPT
RESISTANCE LAMPS			
BST	113H3	135	
CHT	63A/E7	149	RR15
CW	117H0	146	RR16
FTC	44A/E8	9	C36R
IDST	8006	87	RR3
LBH	58F6	118	RR12
LBS	58F6	118	RR12
MPP	55H0	90	RR4
OBS	53C/E0	120	L42
RSTI	9983	127	L13BL
SKAL	188/A3	98	RR6
SP	945	1	R4
TBTO	91F4	107	RR10
TBT1-8	91F6	107	RR10
TBT9	91F9	107	RR10
TBU	91F1	107	RR10
TCTN	102B3	127	RR18
TRS	97A3	122	L5
TT	45E9	9	C36R
WL	113F7	135	R29CC
WM	107F8	135	RR13
XHG	83A1	87	RR3

82D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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6S

SD-25800-01-A29

CBL-176 (9-68)

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG	EQPT
NETWORKS			***
SKFT	88F4	96	RR6
POTENTIOMETERS			***
GLMN	92D1	111	RR19
GLMX	92E1	111	RR19

DESIG	LOCATION FS	APP FIG	EQPT
RESISTORS			***
A	68B5	125	R47
AFK	85D4	98	RR6
AIA	71C3	41	L2
AL	6A/D7	3	R5
B	59C1	125	R47
C	59A1	125	R47
CA	51B/A0	15	R42
CAMA	61H4	41	L4
CB	51B/A1	15	R42
CC	51B/G1	15	R42
CCE	75B4	110	RR1
CD	51B/F1, 51B/G1	15	R42
CE	51B/F2, 51B/G1	15	R42
CEI	51B/F1	15	R42
CF	25F2, 51B/F3, 51B/G3	15,86	R42,RR2
CFI	51B/F3	15	R41
CG	51B/E3	15	R41
CGA	27G3	37	L45
CGAB	27F4	37	L45
CGB	27G3	37	L45
CH	51B/E1	15	R42
CJ	51B/C1, 51B/D1	15	R42
CJI	51B/D1	15	R41
CJ2	51B/C1	15	R42
CK	51B/B1	15	R42
CL	51B/A0	15	R42
CM	51B/A1	15	R42
CPNE	75B4	51	L2
CT	51B/B3	94	R42
CTA	51B/A3	94	R42
CWH	117G4	145	RR16

DESIG	LOCATION FS	APP FIG	EQPT
RESISTORS			***
CGAB	27F4	37	L45
CGB	27G3	37	L45
CH	51B/E1	15	R42
CJ	51B/C1, 51B/D1	15	R42
CJI	51B/D1	15	R41
CJ2	51B/C1	15	R42
CK	51B/B1	15	R42
CL	51B/A0	15	R42
CM	51B/A1	15	R42
CPNE	75B4	51	L2
CT	51B/B3	94	R42
CTA	51B/A3	94	R42
CWH	117G4	145	RR16
D	59C1	125	R47
E	59C1	125	R47
EXT	53A/B0	15	R42
F	68A2	125	R47
FA	51B/E7, 51B/E9, 51B/F8	15	R42
FB	51B/E8	15	R42
FC	51B/E8	15	R42
FCGA	51B/B8	94	R42
FCGB	51A/B5	86	R42
FPS	45G0	99	RR7
FWDC	108E4	135	RR13
G	68B3	125	R48
GA	51B/E6	15	R42
GB	51B/E6	15	R42
GC	51B/E7	15	R41
GD	51B/F6	15	R41
GE	51B/F6	15	R41
GL	92D2	111	RR19
GLI	92E2	111	RR19
GT	79F4	56	L43
GU	103G4	127	RR18
H	68A0	125	R46
IMS	48B/D5	22	R2
IR	103H5	127	RR18
J	68B1	125	R45
K	59C1	125	R47
L	53B/A0	17	R44
LI	53B/A4	42	L3

DESIG	LOCATION FS	APP FIG	EQPT
RESISTORS			***
LF	64G3	16	R44
LHM	52B/B8	15	R42
LHMT	52A/F2	38	L45
LLF	63A/C5	34	R41
LLJ	52A/E2	38	L45
LO	48A/D6	49	RR1
LOL	51B/B4	98	RR6
LR	80B5	87	RR3
LR1,2,3	80B6	87	RR3
LSK	107B/C4	135	
LST	60B/D4	M	R9
M	53B/A1	17	R44
MI	53B/A4	42	L3
MA	104B4	127	RR18
MLF	96D8	120	
MS	4B/A5	2	R2
MTP	7A/G8	1	R4
MTT	62E0	24	R4
N	6A/G8	3	R5
NI	6B/C9	3	R5
NA	64F4	16	R44
NB	64H8	16	R43
NC	64H6	16	R44
ND	64H6	16	R44
NE	64H6	16	R44
NF	64H5	16	R44
NG	64H6	16	R44
NGF	63A/B5	34	R41
NGT	63B/C1	32	R41
NSA	97F4	122	L5
NST	18B/C1	M	R9
OF	66C4	H	R13
OT	104E5	127	RR18
OTT	61G3	40	L2
PA	51B/G6	15	R42
PB	51B/F6	15	R42
PBX	18B/A9	16	R44
PSI-8	51C/B2-C3	158	CA-PST
PST	72C0	F	R50
R	50A/G4	B	R49
RO	49C5	R	L3

DESIG	LOCATION FS	APP FIG	EQPT
RESISTORS			***
RAL1	100B5	127	RR19
RAL2	100C5	127	RR18
S	52A/A3	3	R6
SA	97E3	122	L5
SKO-4	88B2	98	RR6
SK5	88A2	98	RR6
SKF	88D7	98	RR6
SKF1,2	88D7	98	RR6
SLK1	60B/F2	M	R9
SLK2	60B/F1	M	R9
SLK3	60B/F2	M	R10
SLKT	60B/E2	M	R9
SRG	48A/F5	31	R2
TC	104C6	127	RR18
TCL	89C2	101	RR9
TDV	65A/F7	108	RR11
TLH	52A/C2	38	L45
TM	37B/F0	13	R37
TN	49C6	40	L2
TSK	107D4	135	RR13
TST	123D0	179	
TTS	45G1	99	RR7
UK	103G5	127	RR18
VLR	108E2	135	RR13
VLS1,2	108C2	135	RR13
WCF	110F2	135	RR13
WRSK	105C5	135	RR13
WTI,2	105B3	135	RR13
XCW	117G8	146	RR16
XIL	83B1	87	RR3
XLH	52B/B7	15	R42
XLHI	52B/G3	15	R42
XTN	103H4	127	RR18
XTNI	103G4	127	RR18

DRAWING ISSUE 82D

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A30

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CBL-176 (9-68)

APPARATUS INDEX

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT
	SWITCHES		***
A		4	L19C
AGC		105	L19L
AIL		144	R35R
AIS		144	R35R
APU		116	L21BC
APU/CDPU		112	L21CC
ATMT		99	L19L
B		4	L19C
BPU		116	L21BC
BPU/CDU		112	L21CC
BSTL		134	
C		4	L19C
CD		95,156	L19L
CDPU(SEE ADU/CDPU)		96,112	L19C
CDU(SEE BPU/CDU)	SEE APP FIG	96	L19C
CH		10	L19R
CL		11	L29C
CNA		45	R19L
CNB		45	R19L
CNC		45	R19L
CND		45	R19L
CNE		45	R19L
CNF		45	R19L
CNG		45	R19L
CPU		116	L21BC
CPU/CDA		112	L21CC
CRU		7	L19C
CRX		45	R19L
CSS		150	R18
CST		7	L19C
CSU		7	L19C
CW		145	R17
CWC		145	R17
D		4	L19C
E		4	L19C
F		4	L19C
FS		80	L19R
FSPA		66	R19R
FSPB		66	R19R
FSPC		66	R19R
FSPD		66	R19R
FSPE		66	R19R
FSPF		66	R19R
FSPG		66	R19R
FSPH		66	R19R
FSPJ		66	R19R
FSPK		66	R19R
FSPL		66	R19R
FT		78	L19C
FU		6	L19C
G		4	L19C
H		4	L19C
HG		6	L19C
HT-MB		12	L19L
IC		11	L19L
ICL		11	L8BL
ITC-RN		13	L19L
J		4	L19C
JSQ		10	L19R
K		4	L19C
L		4	L19C
LBH		118	SPL
LBS		118	SPL
LP		143	R18
LPNA		177	
LPNB		177	
LPNC		177	
M		4	L17C
MT		52	L19L
MTU		81	L19R
OFU		57	L19C
ORG		119	L11BL
OS		84	L19R
P		134	L11CL
POS		53,54	R19L
POS LOOP		56	L19R
POSU		82	L19R
RA		9	L19L
RAU		9	L19R
RCU		7	L19C
RG		124	L35BR
RMBR		113	L33R
RS		120	L11BL
RT		140	
RTF		120	L11BL
S		16	L19R
SELU		62	L19L,R
SG		43,63	R19L
SGU		85	L19R
SKD		66	R19R
STS		99	L19L
ST SEL		62	R19C
TB-RA		166	
TBS		58	L19C
TBT		97	L19R
TBU		97	L19R
TCL		11	L44R
TCU		128	L5L
TERT		58	L19C
TNT		128	L5L
TNU		128	L5L
TRNA		11	L8BL
TRNB		11	L8BL
TRNC		11	L8BL
TSC		7	L19L
TSH	SEE APP FIG	122	L44R
TSQ		160	
TSS		122	L44R
TSTA		74	L19R
TSTB		74	L19R
TSU		9	L19R
TT-CP		12	L19R
UT		12	L6L
VF		6	L19C
VGU		6	L19C
WCH		134	L2L
WLT		134	L2L
WLU		134	L2L
WRL		134	L11CL
WTG		134	

DESIG	LOCATION FS	LOCATION APP FIG	LOCATION EQPT
	TUBES, ELECTRONS		***
LO	48A/D6	49	RR1
LR	8086	87	RR3
SKF	8806	98	RR6
SLKT	60B/F1	M	R9

82D

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A31

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CBL-176 (9-68)

LEAD INDEX

CONNECTING CIRCUIT TITLES	INDEX LOCATION
ACCESS GROUP CONTROL CKT	39A4
ACCESS TEST LINE CKT	34D7
AIS LINE CKT	34F8
AIS SENDER CKT	34B8
AIS SENDER CONNECTOR CKT	34C8
ATTENDANT TRUNK CKT (CENTREX)	33D0
AUTOMATIC IDENTIFICATION OUTWARD DIALING TRANSLATOR CKT	33A0
AUTOMATIC NUMBER IDENTIFICATION TRANSVERTER CKT	33B0
AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT	33E0
AUTOMATIC PROGRESSION TRUNK TEST CKT	40A0
AUTOMATIC RANGE EXTENSION TEST CKT	39A5
AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS	41A5
CALL DATA TRANSMITTER APPLICATION CKT (CDT APPL)	41D5
CALL WAITING LINK CKT	37F1
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TRUNK TEST REGISTER CKT	38A4
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DRAWING ISSUE 82D

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A32

BELL TELEPHONE LABORATORIES INCORPORATED 65

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DRAWING ISSUE 82D

AIOD TRANSLATOR CKT

DESIG	LOCATION FS	LOCATION CAD
LLT	19G9	38F3
SLT	19F8	38F3
TOFO-2	19H1	2983
TOG	19H1	2983
UOFO-4	19H1	38C0
UOF5-9	19H1	38C3

ANI TRANSVERTER CKT

DESIG	LOCATION FS	LOCATION CAD
SDT1,2	69E8	10B3,20A/B0, 24A2,32G5
ST	67C3	20A/D0
TCB	67C3	20A/D0
TTK		1C7,20A/B0, 24G7,32G5
TVK	69A/A1	12C4,20A/B0, 24G7,32G5
TVT1	69A/D8	10B3,20A/B0
TVT2	69A/E8	10B3,20A/B0, 24G7,32G5

ATTENDANT TRUNK CKT (CENTREX)

DESIG	LOCATION FS	LOCATION CAD
GT,GT1	79F6	29E0
LT	79F6	29E0
TT	79A3	29E0
TTK	79A3	29C0

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

DESIG	LOCATION FS	LOCATION CAD
0-9	18A/B0	19D0
11	35C/D7	18A7,22A0, 92F7
2DT	35A/A2, 35C/C7	21A0, 22A0, 33C0
4WM	74F3	65D2
A	13B/B3	18D0
A0,1,2,4,7	14B0	19D5, 21A2
A1K	18A/G8	65F2
A3K	18A/G7	65F2
A4K	18A/G6	65F2
AA0-9	18B/B6	19D0
AB	36C1	18D2
ABS	36C1	18D2
AC	6A/E8	18D0
AD	13B/B1	65F2
AD1	13B/B1	65F2
AD3	13B/B2	65F2
AD4	13B/B2	65F2
ADK	18A/G8	65F2
AK	18A/G6	18D0
AL	6A/D8	18D2
AMA		20B/G7
AOT		54B7
APUO-5	18A/B8	65B0
ARO,1,2,4,7		21A7
ATT		23B7
ATT1	36C3	29E5
AV	1A/D4	1F5,18D2
AVA	13B/B0	65A0
AVB	13B/B0	65F2
AVD	13B/B1	65F2
AVD1	13B/B1	65F2
AVD3	13B/B2	65F2
AVK1		21H7

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

DESIG	LOCATION FS	LOCATION CAD
B	13B/B4	18D0
B0,1,2,4,7	14B0	19D5, 21H5
BA0-9	18A/B5	19D0
BK	18A/G5	18D0
BP	13B/B0	65A0
BPK	18A/G9	65A0
BR0,1,2,4,7		21A7
C	13B/B5	18D0
C0,1,2,4,7	14B0	19D5, 21A2
CA0-9	18A/B5	19E2
CAM0,1	36C2	18B5
CD0,1,2,4,7, 10,15	93B4	65E0
CDA0,1,2,4, 7,10,15	93B7	47F2, 65E0
CDP0,1,2,4, 7,10,15	93B0	65E0
CH7	21C4	18C5
CK	18A/G5	18D0
CL	35B/A8	18D7,92D5
CLI-S	-	20B/G7
CP0	-	23A7
CPTI	18A/B9	65A0
CR	-	22H0
CR0,1,2,4,7	-	20G7
CSL	36C4	29C8
CTA0	-	42C5
CTA1,2,4,7	-	22D7,42D7
CU0,1,2,4,7		22D7
CXT	35C/H7	18D7,92D5
D	13B/B5	18D0,41H7
D0,1,2,4,7	14B0	19D5, 21H5
DA0-9	18A/B4	19E2
DAT	-	46C0
DAT1	-	54B7
DAT2	36C5	29C8
DCK	-	20B/G5
DK	18A/G4	18D0
DL	11C8	-
DL1-5	-	20B/G7
DOR	65B/G5	18D2
DTF	-	34D7
DTI	-	54B7
E	13B/B6	18D0
E0,1,2,4,7	14B0	19D5, 21A2
EK	18A/G3	18D0
F	13B/B6	18D0
F0,1,2,4,7	14B0	19D5, 21H5
FAC-DP	35C/C2	18D7,92D5
FAC-MF	35C/D2	18D7,92D5
FAK	-	20B/G5
FBK	-	20B/G5
FG2		18D0
FK		68B

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

DESIG	LOCATION FS	LOCATION CAD
FS0-2		12C4
FS5-9		20G5
FS10-14		20G3
FS15-19		20G5
FT0-3		20G5
FU0,1,2,4,7		20G3
FV0	35A/A2, 35C/D7	18D2, 22A0
G	13B/B6	18D0
G0,1,2,4,7	15B0	19E7, 21A2
GK	18A/G2	18D0
H	13B/B7	18D0
H0,1,2,4,7	15B0	19E7, 21H5
HG0,1,2,4,7		20B/G3
HK	18A/G2	18D0
HMSI		20G5
HT0,1,2,4,7		22A0
ICL	35B/A1	18D7,92D5
INC	35B/D3	18D7, 21A0, 92D5
J	13B/B7	18D0
J0,1,2,4,7	15B0	19E7, 21A2
JK	18A/G2	18D0
K	13B/B8	18D0
K0,1,2,4,7	15B0	19E7, 21H5,94F0
KCN	20A/D0	18C5,94F0
KCS	81F5	52B4
KH7		18C5,94F0
KK	18A/G1	18D0
KR	18/G8	18B5,94A0
KR0,1,2,4,7	21C0	18C5,94F0
L	13B/B9	18D0
L0,1,2,4,7	15B/B0	19E7, 21A2
LI0,1		54B7
LK	18A/G0	18D0
LPS	48B/F3	18D2
LR		20B/G5
LRI		54B7
LS	50B/F9	18D2
LT	35A/A3, 35C/B7	22A0, 33C0
LT1,2	35C/B7	21H7,92D5
LT3	35C/C7	18D7, 20A7,92D5

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

DESIG	LOCATION FS	LOCATION CAD
M	65B/B1	18B5,94F2
M0,1,2,4	15B/B0	19A2
M7	15B/B0	19A2, 21H5
M11		30E2
M11		29C8
MAN	36C7	IC3,18D2
MC	10B/B8	19A2
MD	13B/B9	41H7
MF		19A2
MK	18A/G0	IC3,21H7
MON	65B/H5	
MOR		
NA1	21C5	18C5,94F0
NATT	36C3	29C8
NCL	35A/C2	18D7,92D5
NCSL	36C4	29C8
NDK		20G7
NICL	75B/A3	18D7,92D5
NT	35C/E7	18D7,92G7
NTAN	35A/A4	18D0
NTS	35A/A4	18D0
NWB	36C4	72H7
OA	35C/F7, 36C0	18D2, 22A0
OA0,1,2,4,7	21C1	32D5
OAS	36C0	18D2
OB	35C/F7, 36C0	18D2, 22A0
OB0,1,2,4,7	21C2	32D5
OBS	36C1	18D2
OCA0,1,2,4,7	21C1	32D5
OD0,1,2,4,7	21C3	32D5
OE0,1,2,4,7	21C3	32D5
OF	6A/F8	18D0
OF0,1,2,4,7	21C4	32D5
OG0,1,2,4,7	21C4	32D5
OK		18D0
OR		23H7
OR-DP	35C/B2	18D7,92D5
OR-MF	35C/C2	18D7,92D5
OSA	13B/B2	65F2
PC0	35B/E3, 36C2	18D2, 21A0
PC01	35B/B6, 36C2	18D2, 21A0
PCR	35B/E3, 36C2	18D2, 21A0
PCT	35C/H7	18D7,92D5
PD		21A5
PHC	35C/G7	21A0,92G7
PK		21A5
PS		21A5

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

DESIG	LOCATION FS	LOCATION CAD
R	48B/G3	18D2,85C7
R1	48B/G3	44G0
RCY	6B/C2	18D2
REC	65B/H5	18D0
REP	6B/B7	18D2
RIK		54B7
RL		20G5
R0	66E3	21A0, 44A0
RP		22A0
RT4	36C6	29C8
RT5	36C7	
RVTK	1A/D4	32A3
SCN		22H0
SCK		22H0
SCT		20B/G7
SDR1	6B/C3	18D2
SDT2	67C0	18D2
SDT3	1B/F6	18D2
SPL	35B/A4	18D7, 20B/G5,92D5
SPL1	35B/A7	18D7, 19E2,92D5
SPL2	35B/B7	18D7,92D5
SRT		1E5,30B0
SSR	18A/B0	19A7
STG	48B/E3	1F5,18D2
STT	65B/F5	18B5,94F2
T	48B/F3	18D2,85C7
T1	48B/G3	44G0
T4	36C5	29C8
T5	36C6	29C8
T7	36C8	18D0
TAN	35A/A6, 35B/A3	18D2
TAN1	35A/A7, 35B/B3	18D0
TAN2	35A/A8, 35B/B3	18D0
TAN3	35A/A8, 35B/C3	18D0
TAN4	35A/A9, 35B/C3	18D0
TCA	35C/B2	18D7,92D5
TCB	35C/B2	18D7, 21H7,92D5
TCC		21H7

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

DESIG	LOCATION FS	LOCATION CAD
TCL0	35B/D7	18D7,92D5
TCL1,2,3,4	35B/E7	18D7,92D5
TCL5,6	35B/F7	18D7,92D5
TCL7,8,9	35B/G7	18D7,92D5
TCL10	35B/H7	18D7,92D5
TF0,1,2,4,7		18D7
THC	35C/G7	18D7, 21A0,92G7
THT0,1		21H7
THT2		42F5
THT3		42E5
TI	36C5	29C8
TO	66D3	44A0
TOL	35A/A7, 35B/C3	18D2, 21H7
TOL1	35A/A7	33B2
TOL2	35A/A8	33B2
TOL3,4	35A/A9	33B2
TP		22A0
TRIC	81F4	29E5
TRN	35C/B4	18D7,92G7
TST		21H7
TSTK	1B/G5	18D2
TT	35A/A3, 35C/A7	22A0, 33C0
TT0,1,2,4,7		22A0
TV...	1B/H5	18D5
UT0,1,2,4,7		22A0
VF0-4		20B/G5
VG0,1,2,4,7		20B/G3
VG10		20B/G5
WAT	36C4	72H7
WB	36C4	72H7
X1	21H0	18C5,94F0
X2	21H1	18C5,94F0
X11	35C/D7	18D7, 22A0,92D5

LINE IDENT POWER SUPPLY CKT

DESIG	LOCATION FS	LOCATION CAD
LI-TP	80C4	52D4

TEST INCOMING TRUNK CKT

DESIG	LOCATION FS	LOCATION CAD
CENTREX		
CF	25H2	51A/F5
R	82A3	51A/F5, 84E0
R1	82B3	51A/F5
S	82B3	51A/F5
ST	82E4	29C3
T	82A3	51A/F5
T1	82A3	51A/F5
TS	82B3	51A/F5
TST	79H6	53C4, 75F0
WIDEBAND PHASE III CENTREX		
TST	79H6	75E0

TRANSFER LINE LINK & MKR CONN CONT CKT

DESIG	LOCATION FS	LOCATION CAD
ST	82F8	29C3
INC TRK APP		
R	82A8	51A/E5
R1	82B8	51A/E5
S	82B8	51A/E5
T	82A8	51A/E5
T1	82A8	51A/E5
TS	82B8	51A/E5
TEST APP		
H	9A8	51A/D5
TR	82C8	51A/D5
TR1	82D8	51A/D5
TS1	82E8	51A/D5
TST	63A/E8	84E7
TT	82C8	51A/D5
TT1	82D8	51A/D5
TTS	82E8	51A/D5

TRANSFER REGISTER IDENT CONN CKT

DESIG	LOCATION FS	LOCATION CAD
F	80F3	52C0
FT0-3	22A/B2	52C0
FU0,1,2,4,7	22B/B4	52C0
HG0,1,2,4	24A/B5	52C0
HG7	24A/B5	52G4
IDT	80H3	52F8
LL0,1,2,4	41B/E4	52F4
LL7	41B/E4	52D4
RI	80H3	52F8
RIA	80G3	53A7
S	82B3	51A/F5
ST	80H7	52D4
STO,1	80F7	52B4
T	82A3	51A/F5
TI	82A3	51A/F5
TS	82B3	51A/F5
TRIC	80G7	52D4
VF0-4	25C8	52F4
VG0,1,2,4, 7,10	23A/B2	52C0
XHG	83A7	52D4
XHGA	83B7	52D4
XI	83D7	52D4
XL	83C7	52D4

TRANSFER LINE IDENT & CONN CKT

DESIG	LOCATION FS	LOCATION CAD
RIA		53A7
CKT "0"		
XI	83D3	50A/E7
XHG	83A3	50A/E7
XHGA	83B3	50A/E7
XL	83C3	50A/E7
CKT "1"		
XI	83F3	50A/C7
XHG	83F3	50A/D7
XHGA	83F3	50A/D7
XL	83F3	50A/D7

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A33

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CBL-176 (9-68)

LEAD INDEX

DESIG	FS LOC	CAD LOC
LINE, LINE LINK & MKR CONN CONTROL CKT		
2-WIRE		
ATT	61A5	20A/C0
FT	62F3	45H0
FU	62G3	45H0
LK	61D5	58A4, 68B0
LRF	62F3	45H0
LS		20H0, 29C5
MPP00-59	55G3	55E0, E2
MTT	62F1	45H0
NS	18B/G1	
R(1)	50A/A2	20A/H0
R(2)	50A/A0	20A/H0
S(1)	50B/B2	91F2
S(2)	50B/B2	
T(1)	50A/A1	20A/H0
T(2)	50A/A0	20A/H0
TST	63A/E8	84E7, D3, 89A3
TTK	61A5	20A/C0
2-WIRE (WIDEBAND/ BIT-STREAM)		
R(4)	50A/B5	75E7
S(4)	50B/B0	72B0
T(4)	50A/B5	72B0

DESIG	FS LOC	CAD LOC
LINE, LINE LINK & MKR CONN CONTROL CKT		
4-WIRE		
ATT		20A/C0
E1	61D5	58B4
FT	62H3	45H0
FU	62H3	45H0
KSK	86B8	57B7
LK	61D5	58B4, 68B0
LRF	62G3	56F0, 1500
LS		
MTT	62G1	45H0
NS	18B/G1	
ON	87C4	57B7
R	50A/A7	15D0
RI	50A/A8	15D0
S	50B/B4	
SK	86A8	56F0
SKB	86B8	57B7
T	50A/A6	15D0
TI	50A/A7	15D0
TST	63A/E8	84E7, 89D3
TTK	61A5	20A/C0
ACD		
H	90B	20A/C0
R	50A/A3	20A/C0
S	50B/B1	20A/C0
T	50A/A3	20A/C0

DESIG	FS LOC	CAD LOC
CAMA INTERMARKER GROUP TRUNK CKT		
F	87B/C2	13A/C4, 24G2

DESIG	FS LOC	CAD LOC
CAMA SENDER CKT		
AIA	71C0	24F2
DMS	71G7	24B7
MST	71G7	24B7
N	71G7	13A/B4, 24H2
PD	7180	13A/B4, 24H2
PSI	71A0	1F5, 13A/B4 24F2
PS2	71A0	24H2
RS	71B0	1H0, 24F2
RST	71E0	13A/B4, 24H2
RSTA	71D0	13A/B4, 24H2
SGA,B	71D0	13A/B4, 24H2
SRT	65A/A8	13A/C4, G3,24F2
TSKI	71C0	24H2
TST	61G1	1F7, 24F2
TUO-9	71F0	

DESIG	FS LOC	CAD LOC
CAMA TRANSVERTER CKT		
B	67C5	20A/D0
BIT	70B2	24E2
EXT	67C5	20A/D0
LONM	70B2	24E2

DESIG	FS LOC	CAD LOC
CAMA TRANSVERTER CKT		
PRLK	67C9	
RB	67C5	20A/D0
SDT1	69A/G8	24A2
SDT2	69A/H8	24A2
ST	67C4	20A/D0
TBL	-	24D7
TCB	67C4	20A/D0
TSK1	-	24G2
TSTO,1	70B3	24E2
TTK	69A/F8	1C7, 24G7
TVC		24D7
TVK	698/D1	12C4, 24G7
TVT1	69A/F8	10B4 24G7
TVT2	69G8	10B3, 24G7

CONFERENCE CONTROL CKT		
AST	77A4	45C0
CC	77B4	45C0
CPNT	65A/E8	15D3
EC	77C4	45C0
RC	77D4	45C0
STO-16	77G4	45F2
STA	77E4	47G0
STL	77L4	45C0
STRC	77D4	45C0
TA	77B4	45C0
TI	77B4	45C0

DIGIT REG CKT (ACD)		
H	65B/C8	33G0
ON	65B/D8	33G0

CENTREX CONFERENCE CKT		
TC	79D1	29A0

DESIG	FS LOC	CAD LOC
FOREIGN AREA TRANSLATOR CONNECTOR CKT		
FOR AREAS 1,2 & 3		
FAA,B	73B1	15B5
MC	10B/C8	15B5
MTK	10B/C8	15B5
ST	73C1	15B5
FOR AREAS 4,5 & 6		
FAA,B	73D1	15C5
MC	10B/D8	15C5
MTK	10B/D8	15C5
ST	73E1	15C5
FOR AREAS 7,8 & 9		
FAA,B	73F1	15D5
MC	10B/E8	15D5
MTK	10B/E8	15D5
ST	73F1	15D5
FOR AREAS 10,11, & 12		
FAA,B	73G1	15E5
MC	10B/F8	15E5
MTK	10B/F8	15E5
ST	73H1	15E5

INCOMING REG & SDR TEST CKT		
M	-	23C6
SRT	-	30B1

DESIG	FS LOC	CAD LOC
LINE INSULATION TEST FRAME		
FSO-2		12G4, 13M/C6, 35D0
FTTO-5		13M/C6, 35F2
FUTO-9		13M/C6, 35D0
H		13M/F6, 20A/B4, 44H5
HGTO-9		13M/F6, 35D0
JCO,1		13M/F6, 20A/B4, 44H5
JC2-7		13M/F6, 20A/B4, 44H3
PRT		35D0
R		13M/F6, 20A/B4, 44H5
RPT		13M/C6, 35D0
S		13M/F6, 20A/B4, 44H5
T		13M/F6, 20A/B4, 44H5
TPT		13M/C6, 35D0
TRT		35D0
VFTO-4		13M/C6, 35D0
VGTO,1		35D0
VGT2-11		35F2

DESIG	FS LOC	CAD LOC
TRUNK TEST REGISTER CKT (WIDEBAND)		
LSI		73B/B7
S		73B/B7
WPR	5C/D0 5D/A3	75D0, 90C0
WT	40A/H2	75D0
WTRP	5C/G0 5D/G3	75D0, 90C0

WIDEBAND LINK CKT (STD)		
WT00-10(0-7)	113F0	76C7-G7
WT11-21(0-7)	113F0	77B0-F0
WT22-32(0-7)	113F0	77B2-F2
WT33-39(0-7)	113F0	77B5-F5
WU0-9	113C0	72F7

ACCESS TEST LINE CKT		
LH1	105A8	75D0
LH2	105B8	75D0
R(4)	50A/A4	72B0
S	50B/C0	75D7
T(4)	50A/A4	72B0
TH	10508	72B0
WT00-39	105C8	77D7-77F7

WIDEBAND REMOTE SWITCH SIGNAL CONTROL CKT		
TO,1,2,4,7	113C7	72C5
TST00-39	105G8	77A8, B8, G8
UO,1,2,4,7	113C7	72C5

DESIG	FS LOC	CAD LOC
WIDEBAND/BIT-STREAM TEST LINE DISTRIBUTOR		
OTL	106G1	73A/B3
S	50B/F7	73B/B7
TTO	106H1	73A/A3
TTI	106G1	73A/A3

AIS SENDER CKT		
ALB	115C9	79H3
CKO	115C6	79H3
DL4	115C7	79A7
LR	115C7	79H3
LT	115C3	79E5
ND	115C7	79E5
TST	115C3	79B7

AIS SENDER CONN CKT		
MT	115F1	71A/C7
SSO-2	115C2	79G0
SS3	115C2	10IC3
T	115C1	79E5
TST1	115C1	79A7

COIN SUP. CKT		
TST(0-9)	12B3, C3,D1, D2,D3	85B0-E0

AIS LINE CKT		
LB(0-19)	115C5	79G0, 10IB2, G2
LK	115C3	79B7
LLT(0-19)	115C4	79B7, 10IB0, G0
LTC	115C4	20A/F0

TRUNK CKT (4-WIRE ONAL)		
LS1	48C/A8	
LS2	48C/B8	

DRAWING ISSUE
51D
52A
53D
56D
58D
59A
60D
61A
63D
64A
65D
67D
70A
71D
72A
75D
76D
77A
79A
80D
81A
82D
83A

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-A34

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

PRINTED IN U.S.A.

SD-25800-01-A34

STABILO

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DRAWING ISSUE	BY
71D	CB
74A	
75B	
76D	
78D	CB
79A	CB
80D	CB
83A	CB

LINE VERIFICATION CKT

DESIG	LOCATION FS	LOCATION CAD
2DT	21B0	
2LN	34C7	
2W	13C/F8,44E7	
2WT	13C/G8,44F7	
4DG	38A0	
4NE	13C/D1,37D5	
4W	13C/F8,44E7	
4WT	13C/G8,44F7	
6NT	13C/D1,37D5	
9NP	13C/D1,37D5	
11	22E0	
A0,1,2,4,7	13C/B0,37E0	
AF	56C0	
AFK	57A4	
B0,1,2,4,7	13C/B0,37E0	
BLDA	46A0	
BLT	46A0	
BN	13C/B1,37B2	
BST	13C/F1,37B5	
BT	13C/B8,33E7	
C0,1,2,4,7	13C/B0,37E0	
CA0-2	56G4	
CB0-2	56G4	
CCSA	56C6	
CD0,1	13C/G8,44E7	
CDA4,7	47F2	
CDTO,1	13C/G8,44G7	
CGA	33F7	
CGA1	39D7	
CGB	33F7	
CGB1	39D7	
CIB	13C/H0,37D2	
CKC	23A7	
CKG/GC	13C/F0,37E2	
CKG1	13C/F0,37E2	
CKR	46E2	
CKR1	46E2	
COP1	41E7	
COP15	41E7	
CS00-29	13C/D3,36D0	
CSG1	13C/B6,36B7	
CSW	34D7	
CT1	46H0	
D0,1,2,4,7	13C/B0,37E0	
DAC	56A2	
DAT	46A0	
DIS	13C/H0,37D2	
DNGA	13C/F8,44E7	
DNGB	13C/F8,44E7	
DNGC	13C/F8,44E7	
E0,1,2,4,7	21D2	
EXT	13C/F1,37B5	

DESIG	LOCATION FS	LOCATION CAD
F		13C/E1,37C5
F0,1,2,4,7		21E5
FBK		13C/D1,37E5
FG0		13C/A1,37C2
FNA		13C/D3,36F7
FNB		13C/D3,36F7
FTO-3		13C/D3,36D5
FTTO-5		13C/D3,36F7
FU0,1,2,4,7		13C/D3,36D2
FUTO-9		13C/D3,36D2
FVD		22E0
G0,1,2,4,7		21D2
HG0,1,2,4,7		13C/D3,36D2
HGTO-9		13C/D3,36D2
HNO-9		13C/F0,37B6
HTR		13C/A6,36D7
INH		64C0
INC		13C/C1,37F5
ITR		13C/D8,3387,D7
IRS		42A3
KM		46A0
LAN		46E2
LCK		13C/D1,37E5
LDN		46H0
LHC	52B/A2	33A2
LHM		13C/F1,37B5
LHMT		13C/A1,37C2
LLI		13C/E1,37C5
LLP		46AC
LLP2		46C2
LLPT		**40H2**
LNP		41E7
LNPR		41E7
LOL		4CB3
LOLL		64C3
LOLP		42G5
LPO-2		57A4
LPR	5C/G5, 5D/A6	30E5, 9000
LRR		46A0
LRS		46A0
LT		22E0
LTP		13C/D6,D8,44D7
LVM		13C/B6,36A7
LVP	5C/L4, 5D/G6	13C/C6,30E5, 9000
LVP(1)		13C/H8,44D7
MB4,7		13C/C1,37E5
MC		13C/F0,37E2
MKS		13C/D6,D8
MKS(1)		44D7
MKTO,1		13C/A8,33G7
MLV		13C/B6,36B7
MOI		13C/B8,33E7
MOA		13C/B8,33E7
MRL		13C/C8,33C7
MTI		46H0
MTIK		13C/A8,33C7
MTI0,19		33F7
NDT		22A5
NGK		13C/C6,G6,21A5
NH		13C/D1,37D5
NOB		13C/F0,37E2
NOL		40B3
NOLL		39E5
NSP		41B7
NTLS		40F2
OA		13C/C1,37F5
OB		13C/C1,37F5
OF		13C/B8,33B7
OFF0-5		13C/F0,37E2
OFF6-9		33B7
OFT0-7		33B7
OHS		41E7
OSG0-4		21E0
OSG5-11		21E7

DESIG	LOCATION FS	LOCATION CAD
PAN		46H0
PCD		21B0
PCD1		21B0
PCO		21B0
PLB		41E7
PML		41E7
POTS		46F1,56G4
PPC		57A4
PR		57A7
PRE		57A4
PTK		13C/C6,G6,2380
RC		13C/E1,37C5
RCT		13C/A6,36D7
RCT1-15		13C/A6,36D7
RI		13C/B1,37F5
RIP		46F1
RN4,7		13C/E1,37D5
RPT		13C/F0,D3,3602,37D2
RSC,1		23F1
RS9		2365
RSK		13C/F1,37B5
SC-9		13C/F0,37B0
SCK		22H0
SPL		13C/B1,37B2
STR		13C/D6,H8,44D7
TO-9		13C/F0,37E2
TA		56A3,G5
TAN		20A7
TAN1-4		20A7
TB		56A3,G5
TBI		13C/B1,37F5
TBSC-3		46H0
TBTO-9		4AC2
TBTA		46F2
TBSC-9		46C2
TBUA		46C2
TCA		13C/G6,21E7
		13C/F1,37B5
TFC,1,2,4,7		13C/A1,37C2
THC-9		13C/F0,37B0
TIK		13C/D8,3387
TLH		13C/F1,37B5
TLV		13C/B6,D8,3387, 3697
TM		13C/A8,33G7
TOL		21C7
TP'		13C/D1,37E5
TPT		13C/D3,F0,3602, 37F2
TR		13C/D3,3387
TRA		13C/H0,37D2
TRK		13C/B8,33D7
TRL		13C/A8,3307
TRR		13C/HC,37C2
TS		13C/D6,D8,44D7
TSL		13C/D8,3387
TSTL		46H0
TT		22E0
TTC		13C/E1,37C5
TVK		13C/B8,33F7
TVS		13C/D6,D3,44G7
TVTO,1		13C/A8,33G7
TVT2		13C/B8,33F7
U0-9		13C/F0,37D2
VF0-4		13C/D3,36D5
VFT0-4		13C/D3,36D5
VG0,1,2,4,7,10		13C/D3,36D5
VGT0-9		13C/D3,36D5
VGT10,11		13C/D3,36F7

LEVEL DETECTOR CKT

DT	12DD0	6884
TRT0-4	12DD0	6884

MARKER CKT

DESIG	LOCATION FS	LOCATION CAD
A	10885	75D2
ADD		64F0
ADD0-9	9006	**88B3**
AGCK	90H2	64F0
AGCT	88/B1	64F0
ALB	85F2	56C0
ALB1	85F2	56C4
ART0-9	90G2	8885,D5, F5
ARTC	90H2	8885,D5, F5
ASB	47C4	5G3,1A7,39C2
B	10886	75D2
BR1,2	40D9	65C5
BR3	40E9	65C5
BRL	568/G6	4080
BYP	87C4	57A7
CA0,1,2	89C6-E6	56E4
CB0,1,2	8906,E6	56E4
CCSA	89A0	56E4
CGA	27E8	11F6,39E7
CGA1	27F8	39D7,E7
CGB	27G8	11F6,39E7
CGB1	27G6	39D7,E7
CGC	27H8	40E3
CHT	63A/D7	89D3
CIR	40F9	65C5
CST	11DG1	75D2
CTR	57A/B1	40D2
CWCN	1113	71B/F4,72C0
CWF1	117C7	**96E5,F5**
CWF2	117C7	**86E5,F5**
CWL	117C8	86F5
DIS	65A/G8	3905
DISC	57A/E8	1E3,3985
DK	54B/C0	9805
DL		40C0
ETS0	45F2	39G7
ETS1	45F6	39G7
EXT	53A/G0	6681
FA	106E7	75D5
FB	106E7	75D5
FTC0-9	44A/G2	6D3,13A/C2,39CC
FTC10-19	44A/F2	6D3,13A/C2,39CC
FTC20-29	44A/E2	13A/E2,3987
HGF		14B/H0
INH	90H2	64C0
KCS		41E7
LB	11103	75D2
LHC	52A/A0,80	39C5
LL0-9	64D4	39F5
LLF	53A/C7	14B/H0,39C5
LLN	10789	11C8,75F7
LLPT	8D/B7	40G2
LOL	94E7	40B2
LP	63A/B2-D2,F2, F5,G2,G5	4CD0

DESIG	LOCATION FS	LOCATION CAD
MBC	11206	7505
MBCK	11206	7502
MLF0	9608	6867
MMK	10789	75F7
MRL	568/A4	4667
MT1	88/A4	6847
MT2	8A/C0	5G3,12A7,39C2
MT3	8A/C1	6D3,13A/F2,39B2
MT4	8A/C1	3967
MT5X	10A/F2	
MT6X	10A/F2	
MT7	8A/C5	
MT8	10B/B0	6E7,39B2
MT9	8A/C6	6D3,13A/F2,39B2
MT10	8A/C7	1E3,4E7,39B2
MT19	8D/C3	4E7,39B2
MT23	8D/B7	34C5
MT25	8D/C5	40F2
MT26	8D/C6	40F2
MT28	8B/B0	40C2
MT30	8B/B0	57A7
MT40	8B/B2	5884
MT41	40G9	6582
MT44,45	8B/B2	7505
MT46,47	8B/B3	7505
MT49	8B/B4	7505
MT53	8B/B5	7502
NCW	117C9	**86E5,F5**
NDT	548/C0	39C5
NGBS	11H3	5600
NGF	63A/B7	11C3,39C5
NGT(A-H)	63B/C4	11C6,3185
NOL	94E7	4082
NOLL	94C7	3965
NOMG	86E6	40C2
NRD	97H2	18F5
NTLH	64D2	39F5
NTLS	80/C4	40G2
NTR	64G1	39F5
NWL	10880	72C0
ODT1	110H5	75D2
ODT2	11DG5	75F7
OST	11DG5	7502
OTS0	45F3	11F6,39G7
OTS1	45F6	11F6,39G7
OTT	61F0	13A/F2,3985
PC1	10948	7502
PC2	109C8	7502
PC3,4	109E8	7502
PE	3281	4667
PLO-9	10883	7505
POTS	8980	56E4
PRD	41A/E6	6847
PRU	41A/E6	6847
RA0-9	10883	72G5
RBT	65A/G8	3905
RCD	97H2	18F5
RLK	11209	86F5
RLN	10782	7465
RLT	65B/E8	3905
RNGC	85F7	40C2
RUK	10788	7505
RVT	10647	75F7

DESIG	LOCATION FS	LOCATION CAD
SA	97G8	40E2
SAC	97F8	40D2,90C4
SAT	97G2	
SB0-4	10607	7502
SB5-9	10607	7505
SFNK	10781	75F7
SKFP	45A4	57A7
SKFT	88F5	57A7
SLB	188/F7	**40G2**
SLC	118/B1	6102
SLC1	118/B1	6102
SLFK	11062	7502
SLT	10887	7502
SOC	108/B1	
SSC	97C8	40D2,90C4
SW	40A/G2	6282,67B3,75E0
SWC	40A/H2	6282, 6883, 75EC
TB	111E3	7502
TCA	8986	56E4
TCB	8986	56E4
TCC	89C6	56E4
TNGA	638/A4	1106,3982
TRR	65A/F8	3905
TRS	97A1	18F5
TRS1	97A1	
TRTF	57A/A1	40D2
TRTI	57A/A1	40D2
TS	7348	18F5,9287
TS1,2	97C8	1965,9287
TSK	10784	7502
TST	63A/D7	3903
TTO-9	45E4	6D3,39C2
TTO-19	4505	6D3,39C2
TTA		1E3,3982
TTM	61G1	13A/F2,3982
TTR	57A/B1	40D2
VF	10705	7505
VLB	11286	7502
VLO	10687	75F7
VLR	11286	7502
VTR	11286	75F7
VTS	11286	75F7
WB	8906	6C03,72C0
WB1	106F7	7243
WB2,3	10667	7243
WCHA	10703	7467
WCK	10781	75F7
WCO	10607	7505
WLH	10881	75D2
WLHT	113F6	7505
WLK	10702	75F7
WLL	10704	75F7
WLL1	10784	75F7
WMB	10880	7467
WMC	109H0	72C0
WRLO	10687	7505
WRV	5848	6282,6783
WSD	45A4	3967
WTLC	10702	7505
WTR	11281	7502
WTR1	11201	7502
WTS	110F5	7502
WTST	11306	7505
WTT	11281	7502
WTT1	11201	7502

COMPUTER LINE VERIFICATION ACCESS CKT

DESIG	LOCATION FS	LOCATION CAD
2WT		13C/G8,44F7
4DG		38A0
4WT		13C/G8,44F7
BN		13C/B1,37B2
C1B		13C/H0,37D2
CKG/GC		13C/F0,37E2
CSO0-29		13C/D3,3600
CSG1		13C/B6,36B7
FNA		13C/D3,36F7
FNB		13C/D3,36F7
FTO-3		13C/D3,3605
FTTO-5		13C/D3,36F7
FU0,1,2,4,7		13C/D3,3602
FUTO-9		13C/D3,36D2
HG0,1,2,4,7		13C/D3,3602
HGTO-9		13C/D3,3602
HNO-9		13C/F0,3780
ITR		13C/D8,3387,07
LHM		13C/F1,37A5
LLI		37C5
LPR	5C/G3, 5D/A7	9000
LTP		13C/D6,D8,44D7
LVP	5C/D3, 5D/H6	13C/C6,9000
LVP(1)		13C/H8,44D7
MB4,7		13C/C1,37E5
MC		13C/F0,37E2
MKS		13C/D6,D8,44D7
MKTO,1		13C/A8,33G7
MLV		13C/B6,36B7
MOA		13C/B8,33E7
MTIK		13C/A8,33G7
NGK		13C/G6,21A5
NH		13C/D1,37D5
NOB		13C/F0,37E2
NSP		41B7

COMPUTER LINE VERIFICATION ACCESS CKT

DESIG	LOCATION FS	LOCATION CAD
OF		13C/D3,3387
OFF0-5		13C/F0,37E2
OFF6-9		3387
OFT0-2		3387
PTK		13C/C6,G6,2340
RI		13C/B1
RN4,7		13C/E1,37C5
RPT		13C/D3,F0,3602, 37E2
SO-9		13C/F0,37B0
SPL		13C/B1,37B2
STR		13C/D6,H8,44D7
TO-9		13C/F0,37E2
TBI		13C/B1
THO-9		13C/F0,37B0
TIK		13C/D8,3387
TLV		13C/B6,D8,3387, 3687
TM		13C/A8,33G7
TPT		13C/D3,F0,3602,37E2
TR		13C/D8,3387
TRA		13C/HC,37D2
THK		3307
TRL		13C/C8,3307
TS		13C/D6,D8,44D7
TSL		13C/C8,33A7
TVS		13C/D6,D8,4457
TVTO,1		13C/A8,33G7
U0-9		13C/F0,37E2
VF0-4		13C/D3,36D5
VFT0-4		13C/D3,36D5
VG0,1,2,4,7,10		13C/D3,36D5
VGT0-9		13C/D3,36D
VGT10,11		13C/D3,36F7

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A35

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

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DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
1SE	38B0	7C7,13G/E7,23D7
1TB	38B0	7C7
1TR	32G8	9D3
2DT	34B/C8	7D0,13D/D7,21C0
2L	18B/G6	42F5
2LI	18B/G7	42F5
2LN	54A/F4	34C7
2SA	38B1	7C7,13G/E7,23D7
2TR	32G8	9D3
2W	74D8	13N/G0,31F0
2WB	38B1	7C7
2WD	76H1	13N/D3,31E2
2WD1	76H4	13N/D3,31E2
2WT	74C8	131/D7,41D2
3FB	38B1	7C7
3NA	38B1	7C7,13G/E7,23D7
4DG	68D7	10F2,13K/E2,38D0
4NE	38B1	7C7,13G/E7,23D7
4TT	38B1	7C7
4W	74B8	13N/G0,31F0
4WT	74C8	13J/D7,41D2
5DG	68D7	10F2,13K/E2,38D0
5MT	38B2	7C7
5ST	38B2	13H/EC,24D0
6FT	38B2	7C7
6NT	38B2	7C7,13H/E0,24D0
7RN	38B2	7C7,13H/E0,24D0
7TP	38B2	7C7
8MP	38B3	7C7
8SP	38B3	7C7,13H/E0,24D0
9FP	38B3	7C7
9NP	38B3	7C7,13H/E0,24D0
9W		31G0
11	34B/D8	8G4,13F/E0,22A0

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
A0,1,2,4,7	14B2	2D0,13E/D0,21F2
ACD	70B6	13B/B3,13K/D0,34F7
AD	67C8	8H2,13K/C0,34H7
AF	85B3	56C0
AFI	85C3	58C1
AFK	85D3	57B4
AIS	115G2	
AKT		33D0
AL	4IC/D2	5E7,13G/C2,23D2
ALT	4IC/D2	680,8D4,13H/D4, 42H0
AMA	53A/G4	13D/D5,20B/C7
AMKS		11A6,13K/C4,30E2
AOS	63D9	897,34E5
AOT	338/G8	54A7
ARO,1,2, 4,7		13E/D7,21B7
ATK		10G7,13K/H8
ATKT		11A6,13K/C4,30F2
ATP		11A6,13K/C4,30E2
ATT		23D7
ATTP	5C/U7, 5D/G2	30H7,90C0
AV	42A/E7	6887
AVG	42A/E7	6887
AVKI		13E/D7,21G7
B0,1,2,4,7	14B2	2D0,13E/D4,21D5
BCN	111H4	91G2
BLC	37B/C7	7E7,13H/D3,42H0
BLDA	30F8	46B0
BLT	30F7	46B0
BM	54A/F1	7D0,13E/D7,21F0
BR0,1,2, 4,7		13E/D7,21B7
BRL	56B/F5	13H/C0,31FC
BRT	51B/B9	13H/D5,31E2
BST	52A/B0	7D2,13F/E2,22D2
BT	56A/G1,G2	980,13E/D7,21G7
BTI	51B/A9	13N/D3,31E2
C	68C/	10F2,13K/E2,38B0
C0,1,2	14B2	2D0,13E/D0,13G/D5, 21F2
C4,7	14B2	2D0,13E/D0,21F2
CAM	53B/C3	807,13K/G0,34E
CCK	111H4	73A/B6
CCKI	111G4	91E2
CD0,1,2, 4,7	9386	31N/C0,31B0,65E0
CD10,15	9386	31B0,65E0
CDA0,1, 2,4,7	9388	47E2,65E0
CDG0-5	121C7	95G3
CDN	78B7	23D7
CDNK	78A7	42F5
CDP0,1,2, 4,7,10,15	9382	41C7,65E0
CDT0,1,2 4,7	8488	13J/D7,41D2
CE	7587	13N/D3,31E2
CGA	26B/B8, 27F6	13A/G0,13G/C2,23F3
CGAI	27G6	
CGB	26B/B9, 27H6	13A/B0,23F3
CGBI	27H6	

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
CI-1T	59E5	10B2,13K/C0,34E7
CI-2T	59E5	10B2,13K/C0,34E7
CI-3T	59E5	10B2,13K/C0,34E7
CI-4T	59E5	10B2,13K/C0,34E7
CIB	8C/C5	1A3,13K/G5,30C0, 75B7
CI-FAT	59E7	10B2,13K/A0,34B7
CK	68D4	10B2,13K/A0,34B7
CKO	54A/F4	23D7
CKI	107G1	75B7
CKG	67C6	10B2,13K/E2,38D0, 69A/D5
CKCI	11B/C4	1E0,13H/D3,13L/E2
CKS2	11B/C4	1E0,41C5
CKR	62B/G7	46G2,13D/D5,20B/G7
CKRI	62B/G7	46G2
CLI		88T,13D/D5,20B/G7
CL2,4,5,6		13D/D5,20B/G7
CL3	53A/G5	20B/G7
CLK	11B/C5	6887
CM3	72G6	10G7,31C0,33E2
CMA,B,C	72G7	10G7,13K/F8,31C0, 33E2
CNK	72G9	33F5
CNR	32D1	887,13H/E0,24F0
CNT	6489	56C0
CON	51A/F2	882,13F/E5,22D5
CPO,1,2, 4,7	39C/B4	7F3,13G/E7,23D7
CR	32B8	8D4,13F/E0,22G0
CRO,1,2, 4,7		13D/D5,20B/G7
CRU0,1, 2,4,7	26B/B7	13D/D7,21C0
CSO-4	27C6	400,13F/E7,22E7
CS5-9	27C6	400,23F0,F1
CS10-14	27C6	400,13F/E7,22E7
CS15-19	27C6	400,23F0,F1
CS20-24	27C6	400,13F/E7,22E7
CS25-29	27C6	400,23F0,F1
CSG1,2	27A6	4A7,13L/E2,41G7
CSW	40A/F2	34C7
CTO-2	26A/C8	95D0
CTA0	26B/B1	4A7,13J/B0,42D5
CTA1,2, 4,7	26B/B1	42A7
CTI	30F0	46F0
CTM0	67C7	38D0
CTT0,1, 2,4,7	26B/B3	42A7
CU0,1,2, 4,7	26B/B4	13F/E7,22E7
CUT0,1, 2,4,7	26B/B6	482,42A7
CUA0-9	26A/C9	95G3
CWCN	111C3	75B7
CWK	117C7	86F5

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
D	96D8	1B0,13L/E2,41G7
D0,1,2, 4,7	1487	2D0,13E/D4,21D5
DAT	30F8	46B0
DATI	338/F8	54A7
DATK	37A/F0	46E0
DCK	55A8	7D5,13L/D2,20B/C5
DCT	55A2	1B0,13G/C2,23D2
DCTI	55A2	90C8
DFI	111A3	91G2
DIS	57A/F8	1E0,13H/D3,42H0
DIS1	56B/F1	9E0,13G/D5,23D5
DIST	56B/B1	13K/G0,34F5,69A/F0
DL1-6		13D/D5,20B/G7
DLTK	37A/F2	46E0
DN	30F5	47C2
DNC	70B9	13B/B3,13K/D0,34F7
DNK	18C/G2	69A/G5
DNGA	74G8	13N/D3,31E2
DNGB	74G8	13N/D3,31E2
DNGC	74F8	13N/D3,31E2
DNGD	74E8	13N/D3,31E2
DRGK	11B/C4	95C9
DS	6805	10F2,13K/E2,39F3
DT4	78F2	54E7
DT5	78G	54E7
DT7	78F2	54E7
DTF	338/C8	34D7
DTI	338/D8	54A7
DTK	11B/C0	1B0,13F/E2,22D2
DTKI	6804	10B2,13K/A0,34B7
DTKA	6806	10F2,13K/E2,38D3
DTN	69D6	10F2,13K/E2,38B3
E0,1,2, 4,7	15B1	2D0,13E/D0,21F2
ECN	39A/A3	7F3,13G/E7,23D7
ENI	76L6	31F0
ESCK	7686	13N/G0,31FC
ETRC		69A/F0
EV	75C2	13N/D3,31E2
EXT	53A/G0	7E7,13G/D7,42G2
F	37B/C0	7E7,13H/D3,42H0
F0,1,2	15B1	2D0,13E/D4,21D5
F3		13B/B3
F4,7	15B1	2D3,13E/D4,21D5
FAC	33B/A8	804,13D/D5,20B/C7
FAD	53B/C3	887,13G/E7,23D7
FAK	37B/C6	13D/D2,20B/C5
FBK	37B/C6	7D5,13D/D2,20B/C5
FC	7088	13K/D0,34F7
FCK	42B/C2	5D7,13F/E2,22D2
FG0,1	44B/B0	13D/D2,20B/C5
FG2	44B/B0	6C5,13K/C0,34E7
FLG	10681	76E0
FNA	28A/F4	482,13G/D0,23C0
FNB	28A/F4	482,13G/D0,23C0
FS0-2		12G4,13D/E0,20B/D3
FS3,4		13D/E0,20B/D3
FS5-9		13D/D2,20B/B5
FS10-14		13D/E0,20B/D3
FS15-19		13D/D2,20B/B5

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
FT0-3	22A/B0	3D0,13B/D2,20B/C5
FTC	42B/C2	68D,13H/D3,42H0
FTCK	42B/C0	5E7,13G/C2,23D2
FTT0-3	22A/B7	3D7,13F/E2,22D2
FTT4,5	22A/B7	3D7,13K/B0,34C7
FU0,1, 2,4,7	22B/B1	3D0,13D/E0,20B/D2
FUT0-4	22B/B7	3D7,13F/E2,22D2
FUT5-7	22B/B7	3D7,13F/E5,22D5
FUT8,9	22B/B8	3D7,13F/E5,22D5
FV0	34B/E8	70D,13F/E0,22A0
G	11B/C0	1E0,13H/D3,42H0
G0,1,2, 4,7	15B1	2D3,21F2,13E/D0
GC	67C6	10B2,13K/E2,38D0, 69A/95
GIT	72G3	10G7
GPA	4IC/E2	5G7,13H/E0,24F0
GPB	4IC/E2	5G7,13H/E0,24F0
GR	72G4	10G7
H0,1,2, 4,7	15B5	2D3,13E/D4,21D5
HG	72B0	10G7,33G2
HF	37A/F4	7D5,13G/D5,23D5
HFA	53B/C3	1A5,13G/E7,23D7
HGO,1, 2,4,7	24B/B1	3D0,13D/E0,20B/D3
HGK	24B/G3	3D7,13F/E2,22D2
HGTO-4	24B/B1	3D4,13F/E2,22D2
HGT5	24B/B1	3D4,22D5
HGT6,7	24B/B1	3D4,13F/E5,22D5
HGT8	24B/B2	3D4,13F/E5,22D5
HGT9	24B/B2	3D4,13F/E5,22D5
HMA	75D2	13N/D3,31E2
HMSI	53A/G8	882,13D/D2,20B/C5
HN0-9	18C/D2	10D1,13J/D5,41D0
HTO,1, 2,4,7	39C/B3	7C2,13F/E0,22A0
HTR	5598	4C2,13G/D0,23C0
ICK	59E1	10F2,13K/E2,38D3
INC	338/F3	7D0,13D/D7,21A0
IOD	6808	887,34E5
IR	68D5	10F2,13K/E2,38B0
IRL	72G9	33F5
IRS	28B/F3, 30F1	42G2
IT	75H2	13N/D3,31E2
ITR	121C6	9D3,30H0
J0,1,2, 4,7	15B7	2D7,13E/D0,21F2
JSQC-4	10B/B3	6C7,13J/B0,42B5
JSQS	10B/B3	6C7,13J/D2,42A7
JSSF	107G2	76E0

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
K0,1, 2,4,7	15B7	2D3,13E/D4,21D5
KCS	26A/G2	41E7,58C1
KJSQ	10B/B1	6C7,13J/D2,42A7
KM	30F9	46B0
KR2,3		18E5
KTSQ	44A/B7	96G0
KTSQA	44A/B7	96G0
L	12D02	56H7
L0,1,2, 4,7	15B/B1	2D3,13E/D0,21F2
L50	68D7	10F2,13K/E2,38D0
LAN	30F2	46G2
LB		46G2
LCD0-2	7087	13B/B3,13K/D0,34F7
LCK	37B/C7	7D5,13F/E5,22D5
LDN	30F5	46F0
LESI	76F6	13N/D3,31E2
LESK	76D6	13N/D3,31E2
LHM	52B/F7	88D,13J/B0,42D5
LHMT	52B/G0	10D5,13J/B0,42D5
LI	58D7	23E0
LIC,1		54A7
LK	10E8	20A/D1
LKI	5582	882,13G/D5,23D5
LK2	56B/F0	1E0,13H/D3,42H0
LK3	56B/F0	1E0,13G/D7,42G2
LLO,1, 2,4,7	41B/D4	51A/F7,63F4
LLC0-3	107B/E1	73A/B6
LLEI	76F1	13N/D3,31E2
LLES	76F1	13N/D3,31E2
LLI	54A/F3	7E7,13G/D7,42G2
LLJ	52A/D0,E0	88G,13J/D2,47A7
LLP	30F3	4680
LLP2	30F3	46G2
LNP	28A/F2	41C7
LNPR	28A/F2	41C7
LOLL	94B7	64C0
LOLP	94F7	42F5
LPO	87F5	5784
LPI,2	87G5	5784
LR	56B/F3	7D5,13D/D2,20B/C5
LRI	56B/F2	54A7
LRL	85D3	5784
LRR	30F1	
LRS	30F1	
LSKI	107B/E4	91G2
LST	6807	10F2,13K/E2,38D0
LT	34B/B8	884,13F/E0,22A0
LTI	34B/B8	804,13E/D7,21E7
LT2	34B/B8	887,21E7
LT3	34B/C8	20B/G7
LTP		13C/E6,13K/E8,33E2
LVF	60B/G9	4C7,13K/C4,30E2
LVM	60B/E9	4C7,13K/C4,30E2
LVP(1)		13C/E6,33D2
LXPA	106C1	7587

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
M	65B/A8	1A5,13G/D5,23D5
M0,1,2,4	15B/B3	89C3
M7	15B/B3	2D3,13E/D4,21D5, 89C3
MII		13K/C4,30E2
MAKI	44A/F9	5E7,13F/E7,22E7
MB0,1,2, 4,7	39C/B2	7F3,13H/E0,24D0
MC	10B/G8	10B2,13K/G0,34F5
MF	96D7	1B0,13L/E2,41G7
MKS	7C/H4	9B5,10C7,11C4, 13C/E6,13K/A4,30B2
MKS(1)		33D2
MKT0	7C/A4	986,10C7,11F4, 13M/A8,88,44B7
MKT1,2	7C/A4	986,10C7,11F4,44B7
MKT3	7C/A4	986,10C7,11F4, 13M/B8,44B7
MKT4,5	7C/A4	986,10C7,11F4,44B7
MKT6	7C/A4	986,C6,10B7,11G4, 44B7
MKT7	7C/A4	986,C6,10B7, 13M/A8,44B7
MKT8	7C/A4	9C6,10B7,11G4,44A7
MKT9	7C/A4	9C6,10B7,11G4,44B7
MKT10,11	7C/A4	10C7,11G4,44A7
MKT12-17	7C/A4	
MLF	96D1	1B0,13L/E2,41G7
MLFA	96D3	4F7,13H/A7,41A7
MLV	5A/G6	4C7,13K/C4,30E2
MOI	57A/G8	9E0,13H/D3,42H0
MOA	57A/C8	983,13K/G0,34F5
MON		13E/D7,21G7
MPP	55G1	20B/G7
MPT	64G0	8E2,10G7,13G/D5, 2305
MRI	30F4	4690
MRL	56B/F4	9E0,13G/C2,23D2
MT1K	10A/F9	564,1205,13H/D3, 42H0
MT2K	10A/F8	6B0,13G/D7,42G2
MT3K	10A/F6	6E0,13J/D2,42A7
MT4K	10A/F4	2305
MT5	8A/C3	13J/D2,42A7
MT7	8A/C4	6C7,13J/D2,42A7
MT7K	10A/F9	16G3
MT8K	10A/F4	6C7,42J7
MT9K	10A/F5	6E0,13J/D2,42A7
MT10K	10A/F4	8G2,13G/D7,42G2
MT12	8D/C1	1D5,12A2,13H/D3, 42H0
MT30	44A/A7	46G0
MT38K	10A/F3	6484
MT57	88/C6	12A7
MT60		68A0
MTI		46F0
MTL	7B/G0	1A7,10G7,13K/E4, 30G2
MTL(1)		13K/H8,33F0
MTP	7A/A1	9E3,13K/A4,30B2
MTPT	65A/B8	1D5,10G7,13K/D4, 30C0
N7	15B/B3	89C3
NAMA	5A/C0	12G2,13G/E7,23D7

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
ND	11509	20B/G7
NDK		13D/D5,20B/G7
NDT	543/C1	1A7,13F/E5,22D3
NGK	54A/F1	13L/E6,13E/D4,21D5
NH	6489	13G/D5,23D5
NID	6808	887,34E5
NN	6498	7D5,13G/D5,23D5
NOB	548/C7	10C4,13H/E0,23D0
NOBT	548/C9	10F3,13G/D7,42G2
NPC	85E7	56E0
NPR	28A/F3	41C7
NSP	9748	13A/B0,41C7
NT	6487	8E2,13G/D5,23D5
NTCW	11965	85F7
NTH	9C2	880,13H/D3,42H0
NTT	6460	8E2,13G/C2,23D2
NTV8	11985	85F7
NWT	10785	72B0
OA	348/F8	7D0,13F/E0,22G0
OAG,1,2,4,7	21C5	13B/D7,13L/E0,3400
OB	348/F8	7D0,13F/E0,13L/E0, 22G0
OB0,1,2,4,7	21C5	13B/D7,3400
OBS	548/C8	887,13H/F0,2400
OBSI	538/F0	10F3,13L/E2,41G7
OBS2	538/F1	68E7
OBST	548/C8	10F3,13G/D7,42G2
OCI	48/88	1E0,13L/E2,41C5
OCA0,1, 2,4,7	21C6	13G/D7,13L/EC,3100
OCN	39A/A0	7F3,13H/E0,24F0
OC0,1,2,4,7	21C6	13B/D7,13L/E0,3400
OD0	7582	13N/D3,31E2
OD1	67C8	8H2,13K/C0,34H7
OE0,1,2,4,7	21C7	13B/D7,13L/E0,3400
OF	56A/B0	983,13K/F0,31C5
OF0,1,2,4,7	21C7	13B/D7,13L/E0,34E2
OFF0-5	19D1	10D1,13J/D5,41D0
OFF 6-9	19D1	41D0
OFT	56A/B1	981,13K/A0,34C5
OFT0-2	1981	4102
OG0,1,2,4,7	21C8	13B/D7,13L/E0,34E2
OG10,11		13K/E0
OHS	30F7	41C7
OLT	6181	41E7,56D0
ONN	3880	7C7,13H/E0,2400
OP	37A/F3	31E2
OPI	59E4	10B2,13K/C0,34F5
OR	338/A8	887,13G/E7,23D7
ORC0	6487	8E2,23D5
ORC1	6488	2305
ORC2	37A/F4	7D5,23D5
OS0-4	47C2	584,1205,13D/D7,21F0
OSC	53A/G7	185,13G/D7,42G2
OSG0-4	46C1	584,1205,13D/D7,21F0
OSG5-9	46F1	1205,13E/D7,21G7
OSG10,11	46H1	12G7,30B5
OSK	47F8	1205,13H/E0,24D0
OTT	548/C3	1A7,13B/F3,13F/E5, 22D5
OVF0	75A2	13N/D3,31E2
OVF1	7581	12N/D3,31E2
OVK	7887	42H0

DRAWING ISSUE

71D	CB
73D	CB
74A	CB
75B	CB
76D	CB
78C	CB
79A	CB
80D	CB
81A	CB
82D	CB
83A	CB

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A36A

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CBL-176 (9-68)

LEAD INDEX

DESIG	LOCATION FS	LOCATION CAD
MASTER TEST FRAME CONNECTOR CKT		
P	59E3	10F2,13K/E2,38B3
PI	59E4	10F2,13K/E2,38F3
PA	68D1	10F2,13K/E2,38B3
PAN	30F2	46F0
PBX	37A/F4	
PBXI	51A/E2	882
PCD	338/H3	11C2,13D/D7,21D0
PCDI	338/H3	11C2,13D/D7,21C0
PCK	72B1	10G7,33G2
PCR	338/G3	11C2,13D/D7,21C0
PD	32A8	8D4,13E/D4,21D5,72A7
PDK	78E2	42F5
PHC	348/G8	13D/D7,21C0
PHG		70D
PK	3288	13E/D4,21D5,72A7
PKI	3288	72B7
PLB	54A/F5	41C7
PLL	55G0	20B/G7
PLT	[illegible]	41C7
POTS	30F1	46F0
PR	5C/G8,50/A2	30H7,90C0
PRE	87F5	57A4
PRI	87E5	13N/D3,31E2,56A7
PRL	72G4	10G7,33G2
PRLK	248/B2	30C4,13F/E5,22D5,34E2
PRLT	67C9	13B/B5,13L/E0,34B2
PRO	87D5	57A4
PS	32A8	8D4,13E/D4,21D5,72A7
PSI	428/C4	90A4,95E5
PSG	428/C3	90F4,95E5
PT	68D2	10F2,13K/E2,38D0
PTI	68D2	10F2,13K/E2,38B3
PTK	338/H3	13C/E6,13G/D0,23C0
PTP	7A/B0	10G7,33E2
PTR	72G5	10G7,33G2
PTS	78/F0	10D7,11D4,33C2
PTTO-2	78/D9	10D7,11D4,33C2
PTT3,4	78/D9	10E7,11E4,33H2
PTT5,7	78/D9	10E7,11E4,13K/B8,33H2
R	78H2	34B5,40B5
R1A	100C2	69A/F0
R1B	100D2	69A/F0
R1C	100F2	69A/F0
R1D	100G2	69A/F0
R2A	100C2	69A/F2
R2B	100E2	69A/F2
R2C	100F2	69A/F2
R2D	100H2	69A/F0
R3A	100D2	69A/F2
R3B	100E2	69A/F2
R3C	100G2	69A/F2
RA	42A/E3	1A5,5E7,13F/E7,22E7
RAO-4	120D2	90E4
RBT	56A/G1	9E0,13H/D5,42H0
RBTI	56A/G0	9E0,13G/D5,23D5
RC	37A/F6	7E7,13H/D3,42H0
RCT	288/F9	4F2,13H/D3,42H0
RCTI-4	288/F6	4F2,13G/C2,23D2
RCT5-9	288/F6	4F2,13G/D5,23D5
RCT10-14	288/F6	4F2,13K/C2,23D2
RCT15	288/F6	4F2,13G/D5,23D5
RCY	42A/E6	34A7
RD	59E2	10F2,13K/E2,38B0
RDL	59E2	10F2,13K/E2,38D2
RE	78C7	42H0
RG	7502	13N/D3,31E2
RI	54A/F1	70D,13D/D7,21F0
RIA	83F7	54A7
RIP	56A/F0	34C7,46F0
RIW	54A/E2	75B7
RK	68D6	10B2,13K/G0,34F5
RL	56B/B3,F3	7D5,9B3,13D/D2,20B/C5
RLI	121C6	30H0
RLA	57A/E8	9B3,13K/G0,34F5
RLK	72G5	10G7,33G2
RLN		74H5
RNO,1,2,4,7	38B6	7C7,13G/E7,23D7
RNTO,1	67C8	8H2,13K/C0,34H7
RNT20	67C8	34A7
RO'	53B/F4	79C0
RO	33B/C8	7D5,13D/D7,21A0
ROG	57A/B8	1E0,13G/D7,42G2
ROH	42B/C4	90F4,95E5
ROPT	6A/B8	13B/B5,13L/E0,34B2
ROT	53B/F2	8D4,13E/D7,21G7
RP	27C8	13F/E0,22G0
RPT	223/B8,29E8	3D7,10F2,13F/E5,22D5,38D0
RSO-4	40A1	7D5,13G/C2,23D2
RS5	40A1	7D5,13G/D5,23D5
RS6-8	40A/E2	7D5,23D5
RS9	40A/F2	7D5,13G/D5,23D5
RSA0-9	44B/B9	68E7
RSG	44B/B9	68E7
RSK	40A8	7D5,13G/C2,23D2
RT	75D7	13N/D3,31E2
RTO-2	96D4	4F7,13N/A7,41A7
RT3	96D5	4F7,13N/A7,41A7
RTC	11B/C9	89F0
RTF0-3	96D0	68E7
RUK1	107G0	75B7
RVI	54A/F6	1B05,9287
RWL	106A1	76E0
SO-9	188/G2	8G2,13G/D7,42G2
SA	97A8	13A/B0,41C7
SB	42A/E1	68D,13H/D3,42H0
SBT	42A/E2	68D,13H/D3,42H0
SCB	53A/G2	8B2,13G/D5,23D5
SCK	32C8	8D4,13F/E0,22G0
SCN	32C8	8D4,13F/E0,22G0
SCT		13D/D5,20B/G7
SD	72G6	10G7,31C0,33E2
SDG	121C7	95G3
SIA	46A8	5B4,12D5,13G/D7,42G2
SIB	46A8	5B4,12D5,13G/D7,42G2
SKO,1	70B7	13B/B5,13L/E0,34B2
SKT	7A/G0	1A7,13K/E4,30G2
SL	52A/A0	8B2
SLCK	188/F9	1A5,13G/E7,23D7
SMT	38B2	
SNR	120D3	90A4
SOG		7280
SP	9A2	8B0,13K/C4,30D2
SPC	9A2	8B0,13K/C4,30D2
SPL	54B/C5	70D,13D/D2,20B/C5
SQI	108/B2	
SRT	65A/B1	1D5,13K/D4,30C0
SRTI	53B/F4	11B2,13G/D7,42G2
SSA	47F7	5B4,12D5,13H/E0,24C0
SSB	47F7	5B4,12D5,13H/E0,24D0
SST	38B2	
STG	85D7	56E0
STLO-5	88A0-C0	5784
STPI	41C/F2	5D7,13F/E2,22D2
STP2	41C/G2	5D7,13F/E5,22D5
STR		13C/E6,33D2
STSI-5	85A7-C7	56E0
SWAT	10785	7587
T	78G2	34B5,40B5
TO-9	18C/D2	10D0,13J/D7,41D3
TAN	338/C3	70D,13D/D5,20B/G7
TAN1,2	338/D3	70D,13D/D5,20B/G7
TAN3,4	338/E3	70D,13D/D5,20B/G7
TB	42A/E0	68D,13H/D3,42H0
TBI	54A/F2	70D,13D/D7,21F0
TBL	59E4	10F2,13K/E2,38B0
TBSO-3	30F0	46F0
TBT	42A/E0	68D,13H/D3,42H0
TBTO-9	62B/B7	46G2
TBTA	62B/A7	46G2
TBUO-9	62B/F7	46G2
TBUA	62B/E7	46B2
TC1	56A/G7	1B0,13L/E2,41G7
TCA	338/B3	3G7,13E/D7,21E7
TCB	338/C3	3G7,13E/D7,21D7
TCC		21C7
TCGA	27E8	53C0
TCGB	27E8	53C0
TCHO-4	41B/C8	6C7,13J/B0,42B5
TCH5-9	41B/C8	6C7,13J/D2,42A7
TCHK	41C/F2	5D7,13F/E5,22D5
TCT	68D6	10F2,13K/E2,38D3
TDCT	55B2	1E0,13H/D3,42H0
TE		69A/E0
TES1	76C6	13N/D3,31E2
TESK	76C6	13N/D3,31E2
TET	59E6	10B2,13K/F0,34C6
TF0,1,2,4,7	44B/B8	58?,13D/E0,20B/D3
TFA	73B1	11C6,13G/D7,42G2
TG0,1	96D7	58?,68E7
TG2-4	96D6	68E7
TGTO	40B/G7	68E7
TGTI	42A/E1	68E7
THO-9	18C/B2	10D0,13J/D5,41D0
THC	348/G8	70D,13D/D7,21C0
THGTO-9	248/B7	4D5,13L/E2,41C5
THTO,1	39C/B0	8B7,21E7,42E5
THT2,3	39C/B0	21E7,42E5
TI	8C/B5	1A3,13K/E4,30F2
TIO-3	70B5	13B/B5,13L/E0,34B2
TIC	59E1	10F2,13K/E2,38B7
TIK	67C1	9B3,13K/G0,34F5
TIR	56A/G4	54C7
TKT	48/C8	1A7,13K/E4,30G2
TLE1	76A1	13N/D3,31E2
TLES	76A1	13N/D3,31E2
TLH	52A/B0,C0	7D5,13F/E2,22D2
TLV	5A/G6,F6	4C7,9E3,13K/C4,30E2
TM	54B/C3	1A7,10G7,13K/E4,30G2
TMK	55C2	7D5,13G/D5,23B5
TMKI	55C2	7D5,13G/D5,23B5
TNK	28A/F7	4F7,22E7
TNO	5A/G3	10B2,13K/G0,34F5,69A/G5
TOB1	53B/C3	1A5,13G/E7,23D7
TOB2	53B/C3	8B7,13G/E7,23D7
TOL	338/F3	70D,F0,13E/D7,21C7
TOP	5A/F3	10B2,13K/G0,34F5,69A/G5
TOSO-4	47F2	58?,12D5,13G/D7,42G2
TP	29G8	8D4,13F/E0,E5,22G0
TP'	37A/F7	9D5,22D5
TPT	22B/B8,29F8	3D7,10F2,13F/E5,22D5,39D0
TR	56A/B5,B6	9B3,13B/C3,13K/E2,34B7
TRI	56A/G7	1E0,13H/D3,42H0
TR2	32E8	9B0,13C/D0,23C0
TRA	57B/B8	1G0,13K/G0,34F5
TRF	78E7	23D7
TRIT	56A/B5	13B/B5,13L/E0,34B2
TRK	32F8	9B0,13G/D0,23C0
TRL	56A/G5	9B0,13F/E7,22E7
TRL1	56A/G6	1E0,13H/D3,42H0
TRL2	56A/G6	1B0,13G/D5,23D5
TRR	57B/B8	1E0,13H/D3,42H0
TRS	32E8	1B0,13F/E7,22E7
TRT	51B/H9	8B2,13H/D3,42H0
TSO	65A/A8	70B0
TS(A)	8C/A1	13K/G5,30C0
TS(B)	8C/A1	11A5,13K/C4,30E2
TS(C)	8C/A1	13C/F6,33D2
TSA	44A/C7	96G0
TSE	41A/G3	5E7,23D5
TSE1	8A/C2	68D,13H/D3,42H0
TSE2	8A/C3	68D,13H/D3,42H0
TSK	41A/G1	68D,13G/D7,42G2
TSL	67C2	9B3,13K/G0,34F5
TSM	51A/B8	3D7
TSQO-9	44A/D7	96G0
TSR	42A/E4	6B87
TSR1	42A/E4	6B87
TST	41A/G2	6B5,13E/D7,13K/C4,21G7,30D2
TSTL	30F9	46C2
TT	34B/A8	70B,13F/F0,22A0
TTO,1,2,4,7	39C/B5	7C2,13F/E0,22A0
TTC	37A/F5	7E7,13H/D3,42H0
TTC1	37A/F5	42A7
TTL	78/G0	9F3,13K/C4,30D2
TTP	7A/E0	9F3,13K/A8,31C5
TTT	51B/C9	4D5,8B2,13H/D3,42H0
TVFTO-4	25G8	4D5,13L/E2,41C5
TVGTO-11	23B/B8	4D5,13L/E2,41C5
TVGT12,13	23B/B8	4D5
TVS	78/B0	9D6,10C7,11C4,13C/F6,13K/A8,E8,31C5,33D2
TVTO-4	78/C9	9D6,10D7,11C4,13K/A8,31C5
TVT5-9	78/C9	9D6,11C4,13K/B8,31C5
U0-9	18C/G2	10D0,13J/D7,41D2
UK	68D6	10F2,13K/E2,38F3
UKA	28B/F9	
UTO,1,2,4,7	39C/B6	7C3,13F/E0,22A0,27A0
VFO-4	25A8	30D0,13D/D2,20B/C5
VFTO-4	25E8	3D4,13F/E5,22B/D5
VGO,1,2,4,7	23B/B4	30D0,13D/E0,20B/D3
VGIO	23B/B4	30D0,13D/D2,20B/C5
VGA	20B/C9	4D5,13L/E2,41C2
VGTO-4	23B/B1	3D4,13F/E0,22D2
VGT5-9	23B/B1	3D4,13F/E5,22D5
VGT10,11	23B/B1	3D4,13F/E2,22D2
VGT12,13	23B/B1	3D4
VTC	70B8	13B/B3,13K/D0,34F7
WAT	33B/H8	72G7
WBTO-2	10796	72A3
WCN	110F3	7587
WDC1	107C1	7587
WDTF	33B/C8	72G7
WDTI	33B/E8	72G7
WFCK	111/G4	21G2
WHS1	10601	76E0
WKC	70B9	13B/B3,13K/D0,34F7
WLFK	107B6	7587
WTFK	107B7	76E0
WTGO-3	107B/E3	73A/B6,91G2
WTK	106E1	76E0
XII	34B/D8	22A0
XFT	41A/G0	5D7,13F/E2,22D2
XHGA	83F7	54A7
XHGI	83G7	54A7
XI	83H7	54A7
XL	83G7	54A7
XLS	88G0	56D0
XT	59E0	10F2,13K/E2,38D2

DESIG	LOCATION FS	LOCATION CAD
DISTRIBUTOR AND SCANNER CKT		
MKT	48/E8	1G7,13K/H4,30H0
MTC	68B/C6	30H2
NETS		98B7
TKT	48/D8	1B7,13L/F4,30H2
TRP	57A/B5	

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A36B

BELL TELEPHONE LABORATORIES INCORPORATED — PROJ SIZE 6S

SD-25800-01-A36B

LEAD INDEX

DESIG	FS LOC	CAD LOC
CALL WAITING LINK CKT		
BZ	119E5	87H0
CWI-11	117C2	87C4
CWC	117C4	87C4
CWH	117C4	87C4
CWR		85D7
CWT	117C4	85D7, 87H0
DTM	116F8	71B/F4
FTO-5	117C0	87C4
FUO-9	117C0	87C4
IDL	119E5	85C4
LBY	117C4	87C4
LV	117C3	86E0
NOWC	117C2	85C7
NTV	11905	85D7
R	118C3	85C7
RI	118C3	8602
SO	118C1	86E0
SI	118C2	87H0
SP	117C3	8605
T	118C3	85C7
TI	118C4	8602
T2	116E8	86A2
T3	11AE8	86A2
TV	117C5	8605
XS	117C5	87C4

DESIG	FS LOC	CAD LOC
POWER, RING & TONE DISTRIBUTION CKT		
CM3		13K/F8, 53E2
GIT		13K/G8, 33G2
GR		13K/G8
GRD (36)		53G7, 51A/G0
GRD (37)		55G3
GRD (38)		57G7
GRD (39)		60G0
GRD (40)		59G0
HD		33G2
HTI	49A/B5	24G2
PCK		13K/G8, 33G2
PLK		13K/G8
PRL		13K/G8, 33G2
PTP		13K/F6, 33E2
PTR		13K/G8, 33G2
PTS		13K/D8, 33B2
PTTO-2		13K/D8, 33B2
SD		33E2
TN		13A/C4

DESIG	FS LOC	CAD LOC
MASTER TEST FRAME TEST TRUNK CKT		
LK	108/B5	6A5, 20A/E0

DESIG	FS LOC	CAD LOC
POWER RING & TONE DISTRIBUTION CKT		
+130V (B1)		15F5
+130V (B2)		53G7
+130V (B3)		57G7, 66G7
+130V (B34)		53G7
10		13K/G8
BAT (B4)		73B/B2
BAT (33)		51A/G0, 53G4
BAT (35)		53G0
BAT (36)		51A/G0, 55H5
BAT (37)		55H7
BAT (38)		55G7
BAT (39)		58G4
BAT (40)		60G0
BAT (41)		59G0
BAT (50-60)		61G7

DESIG	FS LOC	CAD LOC
MASTER TEST FRAME VOLTMETER TEST CKT		
L1,2	48C/F0	-
LK	108/B4	-
LOLL	94A7	-
R	48C/F1	-
T	48C/F1	-

DESIG	FS LOC	CAD LOC
MASTER TEST FRAME JACK,LAMP & KEY CKT		
C(00-29)	118/C7	8988
CHT	63A/E9	84E7, 89D3
MBA0-4	46C8	58S, 32F0
MBA5-9	46E8	32F0
MBA10,11	40E8	30F4
MBB0-4	46F8	F5 58S, 32F0
MBB5-9	46G8	32F0
MBB10,11	46G8	30F4, F5
ON	9783	92B0
R	50A/H4	72A0
RTT	118/C6	89B8
T	50A/H4	72A0

DESIG	FS LOC	CAD LOC
MISC CKT FOR ALL FRAMES		
MKO,1		31E5
MKT0,1	7C/A6	30A2
MKT2-5	7C/B5	30A2
MKT6-9	7C/B5	30D0
MKT10,11	7C/B5	30A0
MKT12-17	7C/B5	30H5
R	18/B1	4085
T	1A/E1	40B2
TVO	78/D7	31F5
TVI	78/C7	31E5
TVTO-9	78/D8	31D5

DESIG	FS LOC	CAD LOC
NO TEST CONN CKT		
2-WIRE		
H	9D8	8E0, 20A/C4
JCO-7	988	8E0, 20A/C4
R	50A/A3	8E0, 20A/C4
S	508/B1	8E0, 20A/C4
T	50A/A3	8E0, 20A/C4
4-WIRE		
H	9G8	8E0, 15F0
JCO-7	9F8	8E0, 15F0
R	50A/A8	8E0, 15F0
RI	50A/A9	15F0

DESIG	FS LOC	CAD LOC
NO TEST CONN CKT		
4-WIRE (CONT)		
S	50B/B3	8E0, 15F0
T	50A/A8	8E0, 15F0
T1	50A/A9	15F0

NUMBER GROUP CKT		
LS	18B/C0	29B5
TB00-09	91D3	61D0
TB10-39	91D5	61D0
TB40-59	91D5	61F2
TB60-89	91D5	61D5
TB90-99	91D8	61D5

ORIGINATING REG CKT		
BS	65B/C8	33A2
CPNT	65A/D8	14C/D7, 15D3
H	65B/C8	33G0
ON	65B/D8	33G0

POSITION & POSITION LOOP CKT (CENTREX)		
C1	7606	2980
LB	79E1	29C0
LT1-6	79D6	29C0
PO	79F1	29C0
PRDY	79A6	29C0
SPBL	79F1	2983

DESIG	FS LOC	CAD LOC
POSITION LINK CKT (CAMA)		
C1	71G0	24C2, 13A/E4
DMS	71G7	-
E1	49A/D6	24B7
E2	-	24B7
KPR	49A/F6	13A/E4, 24C2
KPT	49A/E6	13A/E4, 24C2
L	498/B4	13A/E4, 24C2
M1	49A/E6	24E2
M2	49A/G6	24B7
MST	71G7	-
N	71G7	-
ON	71H0	13A/E4, 24C2
PD	498/C4	13A/E4, 24C?
PSA,B	71F0	13A/E4, 24C2

DESIG	FS LOC	CAD LOC
POSITION LINK CKT (CAMA)		
R	49A/D6	13A/E4, 24C2
SGA,B	71E0	13A/E4, 24C2
T	49A/A6	3A/E4, 24C2
TUO-9	71F0	24C2

POSITION LINK CKT (CENTREX)		
CA	79C2	29F0
PLTO	79C3	29C0
PS	79C2	29F0
PTM00-19	79C6	29F0
TR	7484	29F0

REGISTER & CAMA SENDER TEST CKT		
1	498/C1	-
3	498/E1	-
17	498/B1	-
18	498/D1	-
7D	16B7	44G7
10D	16B8	44G7
A0,1,2,4,7,10	16C1	48C2
B0,1,2,4,7	16C2	48C2
B10-14,18	16G3	48C2
B21	16G2	48C2
B22	16G2	48D4
C0,1,2,4,7,10	16C3	48D4
C21	16G4	48C2
D0,1,2,4,7,10	16C3	48D4
E0,1,2,4,7,10	16C4	48D4
F0,1,2,4,7,10	16C4	48D4
FSP	16G0	48C2
G0,1,2,4,7	16C5	48D4
G10	16C5	48E7

DESIG	FS LOC	CAD LOC
REGISTER & CAMA SENDER TEST CKT		
H0,1,2,4,7,10	16C6	48E7
J0,1,2,4,7,10	16C8	48E7
K0,1,2,4,7,10	16C8	48E7
KCS	81G5	44G7
MF	498/G1	44G7
MTP	7A/H6	44G7
N	71H7	-
OFR	32E0	51A/D7
OFR1	32FC	51A/D7
OFR2	32F0	51A/D7
POR	498/C1	-
R	490/F1	-
R1	490/G1	-
RR	498/B1	-
ST	498/D1	-
T	490/E1	-
T1	490/E1	-
TRIC	81F4	44G7
TTA1	49H2	-

REGISTER PRIORITY LINK CKT		
CE	75C2	14C/B5, 15C0
EVO,1,2	75F2	14C/B5, 15C0
HM	75D2	14C/B5, 15C0
ODO,1,2	75E2	14C/B5, 15C0
OFO,1	75G2	14C/B5, 15C0
PR	75F7	14C/B5, 15C0
RG	75E2	14C/B5, 15C0
RT	75E7	14C/B5, 15C0

DESIG	FS LOC	CAD LOC
SENDER LINK CKT ASSOC WITH CAMA SENDER		
GROUP 0		
AB	2B/A4	24F7
HM	70G0	24F7
R	490/G8	24F7
SC	70G1	24F7
T	490/G8	24F7
GROUP 1		
AB	2B/A4	24F7
HM	70G1	24F7
R	490/G8	24F7
SC	70G1	24F7
T	490/G8	24F7
GROUP 2		
AB	2B/A4	24E7
HM	70G2	24E7
R	490/G8	24E7
SC	70G2	24E7
T	490/G8	24E7
GROUP 3		
AB	2B/A4	24D7
HM	70G2	24D7
R	490/G8	24D7
SC	70G3	24D7
T	490/G8	24D7

SENDER LINK CKT ASSOC WITH FIRST GR OF D.P. SENDERS		
AB	66A8	33F0
D	66A8	33F0
HM	6688	33E0
R	66A8	33F0
SC	6688	33E0
T	66A8	33F0

DESIG	FS LOC	CAD LOC
SENDER LINK CKT ASSOC WITH SECOND GR OF D.P. SENDERS		
AB	6608	3300
D	6608	3300
HM	6608	33C0
R	6608	3300
SC	6608	33C0
T	6608	3300

SENDER LINK CKT ASSOC WITH REVERTIVE SENDERS		
AB	66E7	3380
D	66E7	3380
HM	66E7	33A0
R	66E7	3330
SC	66E7	3340
T	66E7	3380

SENDER TEST CKT		
4W	488/A3	4784
A0-2	1780	4980
A3-9	1780	4902
AE7	1760	4980
AK	1780	4980
AV	1A/E4	4784
B0-9	1782	4902
BE7	1761	4902
BK	1781	4902

DRAWING ISSUE	
51D	GA, AMD
52A	GA, AMD
53D	CLK, AMD
54B	CLK, AMD
56D	E, AMD
57A	E, AMD
58D	AMD
61A	NLF, AMD
62D	NLF, AMD
63D	SSL, AMD
64A	G.E, AMD
65D	GSK, AMD
66A	GSK, AMD
67D	AMD
70A	EM
71D	RJF
73D	
74A	
75B	
76D	
77A	
78D	
79A	
80D	
82D	
83A	

ISSUE 98B

STABILO

MASTER TEST CONTROL CIRCU (2) SD-25800-01-A37

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PRINTED IN U.S.A.

LEAD INDEX

DESIG	FS LOC	CAD LOC
SENDER TEST CKT		
C0-8	17B2	49D2
C9	17B2	49D5
CE7	17G2	49D2
CK	17B2	49D2
D0-9	17B3	49D5
DE7	17G3	49D5
DK	17B3	49D5
E0-9	17B3	49D5
EE7	17G4	49D5
EK	17B3	49D5
F0-2	17B4	49D5
F3-9	17B4	49D7
FE7	17G4	49D5
FK	17B4	49D5
FSP	17G0	49B0
G0-9	17B5	49D7
GE7	17G4	49D7
GK	17B4	49D7
H0-8	17B5	49D7
H9	17B5	50A/D0
HE7	17G5	49D7
HK	17B5	49D7
J0-9	17B6	50A/D0
JE7	17G6	50A/D0
JK	17B6	50A/D0
K0-9	17B7	50A/D0
KE7	17G7	50A/D0
KK	17B7	50A/D0
L0-2	17B8	50A/D0
L3-9	17B8	50A/F2
LE7	17G8	50A/D0
LK	17B8	50A/D0
LPS	48B/E3	47B4
LS	50B/F8	47B4
M1	65B/A1	1F5
ME7	17F8	50A/F2
MTT	48B/A3	47B4
NM	17C8	50A/F2
R	48B/C3	47B4, 85G7
R0	66E3	47B4
R1	48B/C3	47B4
RL	1B/C1	47B4
ST	1A/D0	47B4
STG	48B/D3	47B4

DESIG	FS LOC	CAD LOC
SENDER TEST CKT		
T	48B/B3	47B4, 85G7
T1	48B/C3	47B4
TAN	34B/A4	47B4
TO	66E3	47B4
TOL	34B/B4	47B4
TSTK	1B/D1	47B4
TVTK	1B/H5	47B4
SER OBSERVING TRUNK SELECTING & CONTROL CKT		
CMG	53C/C5	13B/D3, 24C7
CMT	53C/C5	13B/D3 24C7
TEST POSITION & POSITION LOOP CKT (CENTREX)		
CA	79D1	29B0
CB	79E1	29B0
CI		29B0
LB	79E1	29C0
LT1-6	79D6	29C0
P0	79F1	29C0
P0S	79G6	29B0
PRDY	79A6	29C0
SPBL		29B3
ST	79A6	29B0
STI	79A6	29B0
TRAFFIC REGISTER CKT		
PCT	6A/D8	20A/F0
STO.1		52B4
TST		52D4
TRANSVERTER CKT		
ATDL	57A/A5	45A7
B	67C3	20A/D0
CTT	99C8	69A/G5
CTV	98C3	69A/F0
EXT	67C3	20A/D0
LI	100A2	69A/F2
LIA	100B2	70F0
L2	100A2	69A/F2
L2A	100B2	70F0
RB	67C3	20A/D0
RST	99A1	69A/E5
RSTI	99E1	69A/E5
SDTI,2	69A/C8	10B3, 20A/B0
ST	67C1	20A/D0
TCB	67C1	20A/D0
TIC	103E0	69A/D7
TST	99D1	69A/E5
TTK	69A/A8	1C7, 20A/B0
TVI	102D9	71A/E0
TV2	102D9	71A/E0
TV3	102D8	70F0
TVK	69B/A1	12C4, 20A/B0
TVR	99A7	69A/E5
TVTI,2	69A/B8	10B3, 20B0, 71A/E0, 96A7

DESIG	FS LOC	CAD LOC
TRUNK LINK & CONN CKT		
2-WIRE		
ATT	61G5	20A/E0
FA(1)	37B/C3	20A/B4
FA(2)	37B/C4	64D7
FA(3)	37B/C3	59C3
FA(4)	37B/C5	85E4
FT	62D3	45D0
FU	62E3	45D0
LK		58A4, 68B0
LRF	62C3	45D0
MTT	62C1	45D0
R(1)	48C/G8	20A/G0, 59D3
R(2)	48C/H8	20A/G0, 59D3
S(1)	48C/D8	20A/G0, 59D3
S(2)	48C/G8	20A/G0, 59D3
T(1)	48C/F8	20A/G0, 59D3
T(2)	48C/H8	20A/G0, 59D3
TK	61F5	58A4, 68A0
TTK	61G5	20A/E0
4-WIRE		
ATT		20A/E0
BF	45F1	58A4
BFP	45F0	58F1
BYP	87B4	57B7
FA(1,2)	37B/C5	56F0
FA(4)		85E4
FT	62B3	45F0
FU	62C3	45F0
KSK	86C8	57B7
LRF	62A3	45F0
MTT	62A1	45F0
ON	87B4	57B7
SK	86E0	56E0
SKB	86D8	57B7
TK	61F5	58A4, 68A0
TTK	61G5	20A/E0

DESIG	FS LOC	CAD LOC
TRUNK TEST CKT		
3DC	10A/F0	59E2
4W	95A/H1	44D0
4WLT	85G4	44F0
ACD	95B/B6	68G7
AIS	95B/B0	
AISO	95B/B4	34H0
AIS1	95B/B4	34H5
AIS2	95B/B5	34H5
AIS3	95B/B5	34H5
AL	6A/E8	43E7
ART	10A/D0	68G7
AT	78E7	1D7
ATNT	95B/B4	44D0
B	6A/H6	68G7
BIL	10A/B0	68G7
BK	63B/C9	
BST	95B/B1	91B2
CAMA	71B5	
CATR	95B/B1	
CDG	51B/D5	68G7
CDR	51B/F5	68G7
CDT	51B/E5	68G7
CLT	116A8	86D5
CRL	116C8	86E0
CS	78F7	1D7
CS1	78G7	1D7
CS2	78F7	1D7
CSW	78G7	1D7
CSWI	78G7	1D7
CTL	12B4	1D7
CWC	116A8	86D5
CWR	118F5	
CWT	118F5	
DCT	55B3	43E7
E	92G8	66E1
ESS	89F5	
F	37B/C4	
FA	37B/C4	56G0
GL	92G8	66E1
HTR	63B/C9	
IAO	95B/B2	43E7
ITDO	95B/B3	
ITNP	95B/B2	
ITP	95B/B4	
KR	1B/A8	43E7
LLP	40B/A2	44D0
LPS	48A/A2	44D0, 86D5
LS	50B/F7	89D5
LSI	50B/F7	
MC	11A6	
MFC	116B8	86D7
MISC	95B/B1	43E7
N	6A/H5	
NDT	54B/H1	44D0, 58B4
OGT	95B/B0	
ORT	95A/B4	
OTLI,3,4,6		44D0

DESIG	FS LOC	CAD LOC
TRUNK TEST CKT		
PK	51C/F4	90C8
PKU	29H8	
PR		90D0
R	48A/C2	44G0
RO	48A/E2	
RI	48A/G2	44D0
RC	38D5	
RCS	1A/D7	44D0
REP	6A/A6	43E7, 44F0, 90E7
REX	94H7	63B0
RTM	95B/B7	43E7
S	50B/B5	89D5
SO	48A/F2	
SI	50B/B5	89D5
S4	78D7	
S5	78D7	1D7
SG		1D7
SKTI	7A/H3	43H0
SKT2	7A/H3	43H0
STI	7A/A5	34C5
ST2	7A/A5	34C5
STG	95A/B0	
STL	95A/B0	34H5
STT	95B/B5	71A/F7
T	48A/B2	
TO	48A/D2	44D0,G0
TI	48A/F2	44D0
TAN	34B/B4	18A0
TAN3	34B/C4	89A0
TFB	50B/A6	89D5
TFT	50B/B6	89D5
TLLS	82C4	44D0
TMI	95B/B6	44D0
TOL	34B/C4	18A0, 75C0, 89D5
TP	38/F9, 63B/C9	
TRTT		44D0
TTAI	49B/H1	44D0
TTK	69A/A2	20D2
TTRP		90D0
TV	69A/B2	
TVC	69A/B2	44D0
TVCI	69A/B1	44D0
WBT	58B8	62B2, 67A4, 84
WBTI	95B/B1	75C0

DESIG	FS LOC	CAD LOC
TRUNK TEST REG CKT		
2DT		7F0, 21B1
2W		31G0
A0,1,2,4,7		21H2
AL		5F7, 23F3
AMA		8G4, 208/G7
B0,1,2,4,7		21H5
BT		9A0, 21H7
CO,1,2,4,7		21H2
CGA,B		13A/A0, 23F3, 39F7
CKGI		1A0, 42D0
CRUO,1,2,4,7		21B1
CSGI,2		41H7
CTAG		42A5
CTAI,2,4,7		42A7
CUO,1,2,4,7		4A2, 22B8
D0,1,2,4,7		21H5
DCT	5583	1A0, 23F3
DIS		1A0, 42D0
DISI		9A0, 23A5
E0,1,2,4,7		21H2
ECN		7E2, 23G7
ETSO,1		39F7
F		7E7, 42D0
FO,1,2,4,7		21H5
FCK		5C7, 22H3
FGO,1		20B/E5
FG2		34E7
FTO-3		20B/E5
FTCK		5F7, 23F3
FUO,1,2,4,7		20B/G3
FVD		7F0, 22C0
G0,1,2,4,7		21H2
GPA,B		5G7, 24F0
H0,1,2,4,7		21H5
HGO,1,2,4,7		20B/G3
HMSI		8A2, 20B/E5
HTO,1,2,4,7		7D2, 22C0
INC		7F0, 21B1

DESIG	FS LOC	CAD LOC
TRUNK TEST REG CKT		
JO,1,2,4,7		21H2
KO,1,2,4,7		21H5
L7		21H2
LHM		8A0, 42A5
LHMT		1C5, 42A5
LK2		1A0, 42D0
LK3		1A0, 42B2
LT		8G4, 22C0
LTI	1	8G4, 21H7
LT2	1	8D7, 21H7
MOI		9A0, 42D0
MRL		9A0, 23F3
MT3,9		39C2
MT5		6F0, 42A7
MT25,26		40F2
MT(1)K		42D0
MT(2)K		6D0, 42B2
MT(8,9)K		42A7
MT(10)K		42B2
NOBT		10F3, 42B2
ONN		24D0
OR		8D7, 23G7
OTSO,1		39F7
PCD		11D2, 21B1
PCDI		11D2, 21B1
PCR		11D2, 21B1
PK		8G4, 21H5
PR	5C/G2, 5D/A5	30G4, 90D0
RA		1C5, 22B8
RBT		9A0, 42D0
RBTI		9A0, 23A5
ROG		1A0, 42B2
RP		8G4, 22C0

DESIG	FS LOC	CAD LOC
TRUNK TEST REG CKT		
SB		60D, 42D0
SBT		60D, 42D0
SCK		8G4, 16G0
TAN		7F0, 208/A9
TAN1-4		7F0, 208/A9
TB		60D, 42D0
TBT		60D, 42D0
TCA,B		3H7, 21H7
TDCT		1A0, 42D0
TFO,1,2,4,7		20B/G3
THTC,1		8D7, 21H7
THT2,3		42A5
TI		1B3, 30F2
TMK		7H5, 23A5
TMK1		7H5, 23A5
TOL		7F0, 21H7
TR2		23B0
TRK		9A0, 23B0
TRL		9A0, 22B8
TRL1		1A0, 42D0
TRL2		1A0, 23A5
TSE1		60D, 42D0
TTO,1,2,4,7		7D2, 22C0
TTO-19		39F2
TTK		20A/B0
TTRP	5C/D2, 50/G5	30G4, 90D0
TVK		20A/B0
UTO,1,2,4,7		7D2, 22C0
VFO-4		20B/E5
VGO,1,2,4,7		20B/G3
VGIO		20B/E5
X11		8G4, 22C0

DRAWING ISSUE	
51D	CAC, AWE, AHG
52A	CAC, AWE, AHG, AH1
53D	PD1, PMJ, AHJ
55A	PD1, KTW, AHD
56D	LP, KTW, AHD
57A	LP, KTW, AHD
58D	HKT, AHD
59A	HKT, AHD
60D	GR, AAL, AHD
61A	NLF, AAL, AHD
62D	NLF, AAL, AHD
63D	VKS, AHD, AHD
64A	VKS, AHD, AHD
65D	LP, AA, AHD
67D	Jer
68A	Jer
69D	EM
70A	EM
71D	PX
73D	
74A	
75B	
76D	
78D	
79A	
80D	
82D	
83A	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-A38

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET NO. 6S

SD-25800-01-A38

STABILO

LEAD INDEX

DESIG	FS LOC	CAD LOC
REMOTE OFFICE TEST CONT CKT		
11		8A5
AL		5F7
AMA		8A5
AMKS		11B6
ATKT		11B6
ATP		11B6
ATTP		12D3
BT		9C0
CGA		13A/A0
CGB		13A/A0
DISI		9C0
FCK		5D7
FGO,1		5A7
FTCK		5F7
GPA		5F7
LATT	61C7	30C2
LHM		8A0
LT		8A5
MOI		9F0
MRL		9C0
MT1K		5F3, 12G5
MT2K		6A0
MT5		6F0
MT8K		6A7
MT9K		6F0
MT10K		8F2
OR		8A7
OTT		1A7, 13B/E3

DESIG	FS LOC	CAD LOC
REMOTE OFFICE TEST CONT CKT		
PK		8A5
PR		12D3
RBT		9F0
RBTI		9C0
SB		6D0
SCK		8A5
STP1,2		5D7
TB		6D0
TCHK		5D7
TFO,1,2,4,7		5A7, 16C5
TRK		9C0
TRL		9C0
TS		11B6
TSEI		6A0
TST		16E5
XFT		5D7

LINE INSULATION TEST CONTROL CKT		
LIP	5C/D8, 5D/G0	9G0G
PR	5C/G8, 5D/A1	9G0G

DESIG	FS LOC	CAD LOC
REMOTE OFFICE TEST LINE ACCESS CKT		
LATT	61C7	30C2

REMOTE OFFICE TEST LINE REGISTER CKT		
ATTP	5C/D7, 5D/G2	30H7, 90C0
PR	5C/G8, 5D/A2	30H7, 90C0

DIRECT ACCESS PRETRANSLATOR CONNECTOR CKT		
DAC	89H6	56A2, 56G4
TA	89G6, 89G5, 89H5	56A2, 56G4
TB	89G5, 89F6, 89H5	56A2, 56G4

FUSE, ALARM AND MISC CKT (PBX-A100)		
R	1B/D1	40C5
T	1A/G0	40C5

WIDEBAND LINK CKT (SPL)		
ABT	58G8	67D4
LBC	58H9	67D4
LBHO-7	58F8	67D4
LBSO-9	58F8	67D4

DESIG	FS LOC	CAD LOC
ACCESS GR CONT CKT		
AGC	90A7	64E0
ALM	90C6	64E0
INH	90B6	64E0
INHC	90E2	64F0
SUB	90B2	64F0
TO-4	90A2	64G0
T5-9	90A2	64G3
Z1,2,4,8,16,32,64	90B6	64E0

TIME DELAY CONTROL CKT		
GLT B		92C3
C		92C1
G		92C0
I		92C1
L		92A4

MASTER TEST FRAME TELEPHONE, KEY & LAMP CKT		
ACDA	10A/F0	69A7

SERVICE OBSERVING REGISTER CKT		
B	53C/C0	68C7
G	53C/C2	68C7
TST	53C/C2	68C7

AUTOMATIC RANGE EXTENSION TEST CKT		
AREP	5C/D1, 5D/G4	18E5, 90D0
ARET	5A/A2, 5C/D1	18E5, 92C7
CGA	-	39C7
CGAI	-	39C9
CGB	-	39C7
CGBI	-	39C9
LOL	-	40A3
MTB	-	39A2
NOL	-	40A3
NOLL	-	39E5
PR	5C/C1, 5D/A4	18E5, 90C0

MASTER TIMER CKT		
TO,1,2,4,7	101C7	71A/F0, 86B7
TMCI	99H1	69A/D5
UO,1,2,4,7	101C7	71A/F0, 86B7
UKA		71B/E7

ROUTE DISTRIBUTOR CKT		
CK	73E8	68D0
RTR	73C8	68D0

TRAFFIC SAMPLE TEST CKT		
GRD	97C2	18G7, 92D2
HM	97B2	18G7, 92D2
LO-9	97B2	18G7, 92D2
LT	97C2	18G7, 92D2
LTI	97D2	18G7, 92D2
MTF	97C2	18D5
MTSK		18G5
MT6K		92B7
NRD		18G5
P	97E2	92B7, 18F5, 92D7
RCD		18G7, 92D2
SA	97E2	18F5, 92D7
SAT		13G7, 92D2
TRS		18G5, 92B7
TRSI		18F5, 92D7
VO-9	97B2	13F5, 92D7
		18G7 92D2

REMOTE OFFICE TEST LINE CKT		
ATTP	5C/D7, 5D/G2	16F5, 30H7, 90C0
PR	5C/G8, 5D/A2	16F5, 30H7, 90C0

RECORDER AND RECORDER CONTROL CKT		
A	100C6	70F0
B	100C6	70F0
BA	99F7	70F2, 97B7
BAL	99G7	69A/D0
C	10006	70F0
CB	98C5	69A/D0
CBO	98C1	70C0
CBI	98C0	70C0
CB2	98C0	70C0
CS	98C3	69A/D0
CTR	98C5	69A/D0
D	10006	70F0
DRST	98C3	69A/D0
LCP	99H7	69A/D0
RCH0	98C5	70F2, 97B7
RCHI	98C6	70F2, 97B7
RCH2	98C7	70F2, 97B7
RO	1B/F1	40C5
RL	98B7	70F0
SP	98F7	70G2, 97B7
SPST	98C9	70F2, 97B7
TO	1A/H2	40C5
TBL	99G7	69A/D0
TCI	98C2	7080
TMC	98C2	69A/D0
TMCK	98C2	69A/D5
TPO	98C5	70F2, 97B7
TPI,2	98C6	70F2, 97B7
TTV	98C8	69A/D0
TVT	98C9	70F2 97B7

POSITION TRUNK AND CONTROL FRAME (4CD)		
R	1B/E1	40B5
T	1A/H0	40B5

TRUNK CONTROL CKT		
BT	103E2	69A/F7
COI	103E5	69A/F7
ETRC	99D7	69A/EC
GU	103E4	69A/F7
IR	103E5	69A/F7
OT	104E6	69A/F7
RC	104C6	69A/F7
RD	103E4	
RDL	103E4	69A/F7
RL	99A7	69A/E5
RST	99F1	69A/E5
TC	104B6	70F7
TCO	102A7	71A/F5
TCI-18	102C7	71A/F5
TCI9	102D7	71A/D5
TCI	103E7	69A/F7
TCIA	103E6	69A/F7
TE	99D7	69A/EC
TK	103E2	69A/F7
TLI	103E3	69A/F7
TNTO,1,2,4,7	101C1	71A/G2
TNUO,1,2,4,7	101C1	71A/F2
TRO	102A7	70F7
TRI-18	102B7	70F7
TRI9	102D7	70F7
TRST	99F1	69A/E5
TS	65A/A6	69A/F7
UK	103E5	69A/F7
XTC	104D6	70F7
XTN	103E4	69A/F7
EMERGENCY		
TCE	102E7	61A/F9
TRE	102E7	70H7, 97C7

TRUNK CKT (IAO COIN)		
LSI	12181, 12161	85A0
TST	12181, C1,D1 RIG1,2	85A0 C0,E0

WIDEBAND LINE CONTROL CKT		
L	113F3	74E0
LO-9	113F2	73A/C6
RO,1,2	113F3	72H5
TO-9	113F2	73A/C6
TV	113F2	73A/C6

ROUTE RELAY CROSS CONN COMPARISON CKT		
LK		71B/D7
MCI		68B0
MCK		68B0
MM		68B0
ON		68B0
RLS		68B0

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A39

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-A39

STABILOKE

LEAD INDEX

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
11		8A5,13L/D5, 16E0
2DT		17F5
2W		44G2
4W		44A2
A0,1,2,4,7		2H0,13M/D0, 17D0
AKT		25A/D0
AL		5F7,13L/D5, 16E0
ALT		6A1,13M/D1, 17E2
AMA		8A5,13L/D5, 16E2
AMKS		11B6,13L/C6, 16E5
APT		68E0
APTT	61C8	13A/B7, 13M/D3, 44D2
ATK		13M/D3
ATKT		11B6,13L/C6, 16E5
ATP		11B6,13L/C6, 16E5
ATTP	5C/E7, 5D/H1	12D3,13L/C6, 16F5,90D0
B0,1,2,4,7		2H0,13M/D0, 17D0
BT		9C0,13L/D8, 16C7
C0		2H0,13M/D0, 17D0
C1		2H0,13M/D0, E5,17D0, 44D2
C2,4,7		2H0,13M/D0, 17D0

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
CAM	61H1	13A/B7, 13M/D3, 44D2
CD0		31E0
CD1,2,4,7		31B0
CD15		31E0
CGA,B		11E6,13A/A0 13L/D5, 13M/C5, 16E0, 39D7, 44C5
CGA1		39D7,44C5
CGB1		39D7,44C5
CIB		1A3,13L/C6, 16E5
CKG1		1C0,13L/C6, 16E5
CKR		46A2
CKR1		46A2
CMG		13M/D3, 44D2
CMT		13M/D3, 44D2
CPU0,1,2,4,7		13M/D1, 17E2
CSG1		4B7,13L/D8, 16C7
CSG2		4B7,13L/F6, 16A7
CTA0-2		4B7,13L/F6, 16E2
CTA4		13M/C5, 25A/C2
CTA7		16C7,13L/D8
CTT0,1,2,4,7		42H7
CU0,1,2,4,7		4C2,13L/D5, 16E0
CUT0,1,2,4,7		42H7
DATK		46E0
DD,1,2,4,7		2H0,13M/D0, 17D0
DCT		1C0,13L/D5, 16E0
DIS		1C0,13L/C6, 16E5
DISC		13M/D3, 44D5
DISI		9C0,13L/D5, 16E0

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
DLTK		46E0
DNGC,D		17F5
E0,4,7		2H0,13M/D0, 17D0
E1,2		2H0,13M/D0, 17D0,24B7
ECN		13M/D3, 25A/B0,D0
ETS0,1		11E6,13M/C5, 39D7, 44C5
F		13M/D3, 25A/D0
F0,1,2		2H0,13M/D0, 17D0
F4,7		2H3,13M/D0, 17D0
FAC		20B/B7
FCK		5D7,13L/D5, 16E0
FG0,1		5A7,13L/D5, 16E0
FG2		6C5,13L/D5, 16E0
FT0-2		13L/D8, 16C7
FT3		13L/D8, 16C7
FT4		16C7
FTC		6D0,13H/A3, 13M/D3, 25A/C0,42F0
FTCK		5D7,13L/D5, 16E0
FU0,1 FU2,4,7		13L/D8,16E5 13L/D8,16C7
FVD		17F5
G0,1,2,4,7		2H3,13M/D0, 17E2
GPA		5G7,13L/D5, 16E0
GPB		5G7,13L/D5 16E0
H0,1,2,4		2H3,13M/D0, 17E2
H7		2H3,13M/D0, 17G2
HG0,1,2,4,7		13L/D8,16E5
HMS1		8A2,13M/D0, 17E2
HT0,1,2,4,7		13M/D3, 25A/F0
INC		13M/D3, 25A/E0
J0,1,2,4,7		2H3,13M/D1, 17E2

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
K0,1,2,4,7		2H3,13M/D1, 13M/E5,17E2
KPR		13M/E5, 44D2
KPT		13M/E5,44D2
L		13M/E5, 44D2
L7		13M/D1, 1782,E5
LATT	61C8	183,13L/C6, 16E5
LB		46A2
LHM		8A0,13L/D8, 16C7
LHMT		13L/C6, 16E5
LK		6B5,13M/C5, 20A/E0, 44C5
LK2		1C0,13L/D2, 16E2
LK3		1C0,13L/F6, 16E2
LLPT		40M2
LMTT	61D5	1B5,13L/C6, 16E5
LT		8A5,13L/D5, 16E0
LT1		13M/B1, 17F5
LT3		20B/B7
MI		24E2
M2		24B7
MFC	5A/B1	13M/D3,44D2
MKT0,1		11A4,13L/F6 16B2
MKT-		11A4,13L/C6 F6,16B2,G5
MOI		9F0,13L/D8, 16C7
MRL		9C0,13L/D5, 16E0
MT3		6H3,13A/F2, 13M/C5,39C2, 44C5
MT5		6F0,13L/F6, 16E2
MT8		13M/C5
MT9		6H3,13A/F2, 39C2,44C5
MT10		39B2
MT12		1B5,12A2, 13L/F6,16B2
MT1K		5F3,12G5, 13L/F6,16B2
MT2K		6A0,13L/F6, 16E2
MT7K		16E2
MT8K		6A7,13L/F6, 16E2
MT9K		6F0,13L/F6, 16E2
MT10K		8F2,13L/F6, 16E2
MT23		34D5

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
MT25,26		40F2
MT57		42E7
MTC		68E0
MTL		13M/D3
MTL(1)		25A/D0
NGTA		31A5
NGTH		31A5
NH		23G5
NDT		1A7,13L/D5, 16E0
NOB		10C3,13L/D8, 16C7
NTLS		40M2
ON		13M/E5,44D2
OR		8A7,13L/D5, 16E0
OSC		1B5,13M/D0, 17E2
OTS0,1		11E6,13M/C5 39D7,44C5
OTT	61F1	1A7,13A/D7, 13B/E3, 13M/D0,D3, 17E2,39A5, 44D5
OV		46A2
PCR		13M/D3, 25A/C0
PD		13M/E5 44D2
PK		8A5,13L/D5, 16E0
PR	5A/D7,58/G6, 5D/A8 5A/A1	12D3,13L/C6, 16F5,90D0
PR1		13M/D3,44D2
PS1		13M/D3,44D2
PS2		13M/E5, 44D2
PSA,B		13M/E5, 44D2
R		13M/D3, 44D2
RA		1B5,5D7, 13L/D5,16E0
RBT		9F0,13L/D5, 16E2
RBT1		9C0,13L/D5, 16B0
RC		42H0
RCT		4G2,16C7
RCT1		4C2,13L/D8, 16C7
RCT10		17F5
ROG		1C0,13L/D5, 16E2
RP		8F4,13L/D5, 16E0
RS		13M/D3, 44D2
RSO,1		23F3
RSK		23F3
SO-9		42D2
SA		40E2
SAT		18H5,92A7
SB		600,13L/D5, 16E2

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
SBT		6A0,13L/D5, 16E2
SCK		8A5,13L/D5, 16E0
SGA,B		13M/E5,44D2
SGA(1),B(1)		13M/E5,44D2
SLB		40H2
SRT1		13M/C5, 25A/C0
T		13M/D3,44D2
T1	48A/B4	1A3,13L/C6, 16E5
TAN		44A5
TAN1-4		44E5
TB		6D0,13L/D5, 16E2
TBL		13M/D3,44D2
TBT		6A0,13L/D5, 16E2
TBT0-9		46A2
TBTA		46A2
TBU0-9		46A2
TBUA		46A2
TCA		44E5
TCB		13M/D3, 25A/B0,D0
TDCT		1C0,13L/D5, 16E2
TF0,1		5A7,13L/C6, 16C5
TF2,4,7		5A7,13L/D3 16C5
THT0-3		17F5
TM		10E7,13L/D8 16C7
TMK		44G5
TMK1		44G5
TNGA		39B2
TOL		44E5
TP		8F4,13L/D5, 16E0
TP'		22A5
TRK		9C0,13L/D8, 16C7
TRL		9C0,13L/D8, 16C7
TRL1		13L/D5, 16E2
TRL2		1C0,13L/D5, 16B0
TRS1		18H5,92A7
TS		11B6,13L/C6 16F5
TSE1		6A0 ,13L/D5 16E2
TSE2		6A0 ,44G5
TSK1		13M/D3, 25A/F0
TST		6B5,13L/C6, 13M/D3,16E5, 44D2,44F5

DESIG	LOCATION FS	LOCATION CAD
AUTOMATIC PROGRESSION TRUNK TEST CKT		
TTC,1,2		25A/F0, 39H2,44C5
TT3		6H3,13M/C5, 39H2,44C5
TT4		6H3,13M/C5, D3,25A/H0, 39H2,44C5
TT5,6		6H3,13M/C5, 39H2,44C5
TT7		6H3,13M/C5, D3,25A/H0, 39H2,44C5
TT8-19		6H3,13M/C5, 39H2,44C5
TTA		13M/D3,44D5
TTC		42H0
TTC1		44G5
TTK		13M/E5,44D2
TTK(ANI)		24H7,32H5
TU0-9		13M/C5, 44D5
TVC		13M/D3,44D2
TVK		13M/E5,44D2
TVK(ANI)		24H7,32H5
UT0,1,2,4,7		13M/D3, 25A/F0
VF0-4		13L/D8,16C7
VG0,1,2,4,7		13L/D8,16C7
VG10		13L/D8,16C7
X11		22E1

DESIG	LOCATION FS	LOCATION CAD
PROGRAM CONTROLLED TRANSVERTER CKT		
ANI		
SDT1	69A/C8,E8	1083
SDT2	69A/C8,E8	1083
TMT	67E3	20A/D0
TVK	69A/A1,C1	12C3
TTK	69A/A8,D8	1C7
TVT1	69A/B8	
TVT2	69A/B8,E8	1083
CAMA		
SDT1	69A/G8	24A2
SDT2	69A/H8	24A2
TMT	67E3	20A/E0
TTK	69A/F8	24G6
TVK	69B/D1	24G6
TVT1	69A/F8	24G6
TVT2	69A/G8	24G6

ISSUE 105A C8

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A40

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S — PRINTED IN U.S.A.

SD-25800-01-A40

LEAD INDEX

POWER AND DATA INTERFACE CKT (ETS-PDI)

DESIG	LOCATION FS	LOCATION CAD
2LN		34C7
2W		13C/F8, 44E7
2WT		13C/G8, 44F7
4DG		38A0
4W		13C/F8, 44E7
4WT		13C/G8, 44F7
8N		13C/B1, 37B2
CIB		13C/H0, 37D2
CKG		13C/F0
CKG/GC		37E2
CKGI		13C/F0, 37E2
CKO		23A7
C300-29		13C/D3, 36D0
CSGI		13C/B6, 36B7
CTI		46H0
DAT		46B1
FNA		13C/D3, 36F7
FNB		13C/D3, 36F7
FTO-3		13C/D3, 36D5
FTTO-5		13C/D3, 36F7
FUO,1,2,4,7		13C/D3, 36D2
FUTO-9		13C/D3, 36D2
FUT8/TPT		13C/D3, 36D2

POWER AND DATA INTERFACE CKT (ETS-PDI)

DESIG	LOCATION FS	LOCATION CAD
FUT9/RPT		13C/D3, 36D2
HGO,1,2,4,7		13C/D3, 36D2
HGTO-9		13C/D3, 36D2
HNO-9		13C/F0, 37B0
ITR		13C/D8, 33C7
LDN		46H0
LHM		13C/F1, 37B5
LLI		13C/E1, 37C5
LLP		46B1
LOLL		64D0
LPR	5C/G5, 5D/B6	30E4,90D0
LTP		13C/D6,D8, 44D7
LVP	5C/D4,5D/G6	30E4,90D0
MB4		13C/C1, 37E5
MB7		13C/C1, 37E5
MC		13C/F0, 37E2
MKTO		13C/A8, 33G7
MKTI		13C/A8, 33G7
MKS		13C/D6,D8
MLV		13C/B6
MLV/TLV		13C/B6, 36B7
MOA		13C/B8, 33E7
MTI		46H0
MTIK		13C/A8, 33G7
NGK		13C/D6,G6,21A5
NOB		13C/F0, 37E2
NSP		41B7
OF		13C/D8, 33C7
OFFO-5		13C/F0, 37E2
OFF6-9		33C7
OFTO,1,2		33C7
OSGO-4		21E0
OSG5-9		21E7
OSG10,11		34A5
PAN		46H0

POWER AND DATA INTERFACE CKT (ETS-PDI)

DESIG	LOCATION FS	LOCATION CAD
RCTI		13C/A6,36E7
RI		13C/B1, 37F5
RN4		13C/E1, 37D5
RN7		13C/E1, 37D5
RPT		13C/F0, 37E2
RSO,1		23F2
RSK		13C/G2,37A5
SO-9		13C/F0, 37B0
SPL		13C/B1, 37B2
TO-9		13C/F0, 37E2
TBI		13C/B1, 37F5
TBSO-3		46H0
THO-9		13C/F0, 37B0
TIK		13C/D8, 33C7
TLV		13C/D8, 33C7
TM		13C/A8, 33G7
TPT		13C/F0, 37E2
TR		13C/D8, 33C7
TRA		13C/H0,37D2
TRK/ITR		33D7
TRL		13C/C8
TS		13C/F8
TSO-9	45E8	98G5
TSI0-19	45B7	98F2
TSL		13C/D8,33C7
TSTL		46H0
TVS		13C/D6,D8, 44D7
TVTO		13C/A8, 33G7
TVTI		13C/A8, 33G7
UC-9		13C/F0, 37E2
VFO-4		13C/D3, 36D5
VFTO-4		13C/D3, 36D5
VGO,1,2,4,7,10		13C/D3, 36D5
VGTO-9		13C/D3, 36D5
VGT10,11		13C/D3, 36F7

DISTRIBUTOR AND SCANNER APPLICATION FOR ETS (DAS ETS)

DESIG	LOCATION FS	LOCATION CAD
AIRI	122B0	79C7
AIS	8D/D8	34D5
BN	54A/F1	98G5
CGA	268/C7	99B2
CGB	268/C8	99B2
CRUO,1,2,4,7	268/C7	99F2
CSR	122B8	99C0
CTO,1,2,4,7	268/B0	99E0
CUO,1,2,4,7	268/D3	99B0
FGTO,1,2	448/B1	98D0
FS	408/E8	98D0
GPA	41C/C1	24H0
GPB	41C/B1	24H0
IG	54A/F0	98J0
LLP	12284,D1	100C7,F2
MKT	48/E8	13K/H4,30H0
MOA		33E7
MT25	8D/D6	40F4
MT26	8D/D6	40F4
MTC	688/C6	30H2
MTCS	8C/A2	3000
NETS	122C0	9887
NTFS	408/F8	98D0
NTTS	408/D8	98D0
RAO,1,2,4,7	122E9	98D0
RI	54A/E1	98G5
TBI	54A/E2	98G5
TFTO,1,2,4,7	448/B7	98F2
TKT	48/D8	187,13K/F4, 30H2
TRK/ITR		33D7
TRP	57A/B5	52B4
TRL		33D7
TS	408/D8	98D0
TSO-9	45E8	98G5
TSI0-19	4587	98F2

AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO 5 ETS

DESIG	LOCATION FS	LOCATION CAD
ATT	61B5	20A/C0
FT	62A/F3	45H0
FU	62A/G3	45H0
LK	61B6	
LRF	62A/F3	45H0
MTT		45H0
TTK	61B5	20A/C0

CALL DATA TRANSMITTER APPLICATION CKT (CDT APPL)

DESIG	LOCATION FS	LOCATION CAD
CDTT	123A3	100F7
EVN	123C3	100F7
MT9	8A/C7	100F7
ODD	12303	100F7
TAD	12383	100F7
TAS	123C3	100F7
TMRT	12383	100F7
TREC	12383	100F7
TST	12303	100F7

TRANSLATOR ACCESS CKT

DESIG	LOCATION FS	LOCATION CAD
TVK	698/A2	34A7

DESIG	LOCATION FS	LOCATION CAD

DESIG	LOCATION FS	LOCATION CAD

DESIG	LOCATION FS	LOCATION CAD

DESIG	LOCATION FS	LOCATION CAD

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

SD-25800-01-A41

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

CBL-176(11-73)

BUP-4C3012 701.

OPTION INDEX

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
FIG. A	(102)STD 1	102 (17) 135 (17) 1248	APP FIG.A, 1A/88, 1B/B3 5B/D1-D3, 68/D5, 7A/F4, 8A/F7, 9F4 11B/E4, 12G6, 12G7, 20A/H1, 26A/H4, 29C1, 29B2, 31A7, 31D1, 32F5, 32F6, 47C9, 54B/G1, 56A/B7, D8, F2, F4, 56B/F1, F4, 57A/E4, G8, 57B/C4, F5, 5832
FIG. B	(102)STD 1	102 (17) 135 (17) 1248	APP FIG.B, 1B/B3, 3B/A6, B6, D7, 6A/B3, 7A/E1, 12C7, 31C1, 31D1, 57A/E4
FIG. C	(102)STD 1	135 (17)	APP FIG. C, 19C5
	MD 21D (REPL BY FIG.D)	1125	
FIG. D	(102)STD 1	135 (17)	APP FIG.D
	STD 21D	1125	
	MD 48D (REPL BY FIG. 57)		
FIG. E	(102)STD 4D	102 (29) 135 (29)	APP FIG.E, 1A/B9, 7A/B4, 72G7, 72E8
FIG. F	(102)STD 6D	102 (29) 135 (29), 1191	APP FIG.F, 10B/A8
FIG. G	(102)STD 6D	102 (31)	APP FIG.G. 28/E3, 58/F1, 31G2, 57A/D1
FIG. H	(102)STD 6D	102 (31)	APP FIG. H, 11E5, 50B/D9
FIG. J	MD 9D (REPL BY FIG. K)	110, 1184, 1192	APP FIG. J
FIG. K	STD 9	110, 138, 141, 1184, 1192	APP FIG. K
FIG. L	MD 9D (REPL BY FIG. M)	1125	APP FIG. L, 8A/E7 29C0, 29C1, 29A2, 29C2, 29C6
FIG. M	STD 9D	1125	APP FIG. M, 8D/G3 29C0, 29C1, 29A2, 60B/D3
FIG. N	(102)STD 11D	102(37), 181	APP FIG. N, 34B/A3, 34B/A4, 48B/A4-D7
FIG. P	(102)STD 11D	102(37), 181	APP FIG.P, 1A/D4 2B/G1, 6A/G7, 48B/B6, C7, E5, 65B/C2, D1
FIG. Q	(102)STD 22D	102(48)	APP FIG.Q, 49B/B2, C2
FIG. R	(102)STD 22D	102(48)	APP FIG. R

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
FIG. S	MD 21D (REPL BY FIG. T)	1166, 1185	APP FIG. S
FIG. T	STD 21D	130, 1166, 1185	APP FIG. T
	MD 51D (REPL BY FIG.78		
FIG. U	MD 21D (REPL BY FIG. V)	1185	APP FIG. U, 8A/A1, D7
FIG. V	STD 21D	131, 1185	APP FIG. V
FIG. W	MD 22D (REPL BY FIG. X)		APP FIG. W
FIG. X	STD 22D		APP FIG. X

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
1	STD 1	102(1)	APP FIG. 1
2	STD 1	102(2)	APP FIG. 2
3	STD 1	102(3)	APP FIG. 3
4	STD 1	102(4)	APP FIG. 4
5	STD 1	102(5)	APP FIG. 5
6	STD 1	102(6)	APP FIG. 6
7	STD 1	102(7)	APP FIG. 7
8	STD 1		APP FIG. 8, 10A/A8
	MD 13D (REPL BY FIG. 35)	116, 1185	
9	STD 1	102(8)	APP FIG. 9
10	STD 1	102(9)	APP FIG. 10
11	STD 1	102(10)	APP FIG. 11
12	STD 1	102(10), 135(17)	APP FIG. 12
13	STD 1	102(11)	APP FIG. 13
14	STD 1	102(12)	APP FIG. 14
15	STD 1	102(13)	APP FIG. 15
16	STD 1	102(14)	APP FIG. 16
17	STD 1	102(15)	APP FIG. 17
18	STD 1		APP FIG. 18
	MD 13D (REPL BY FIG. 36)	116	
19	STD 1		APP FIG. 19, 78/A5, C6, 7C/B4, F2
	MD 4D (REPL BY FIG. 21)	153, 1175	
20	(102)STD 1	102(17), 135(17)	APP FIG. 20, 6A/E5,
21	STD 4D		APP FIG. 21, 78/A5, C6, E6, G6, 7C/B4, F2
	MD 43D (REPL BY FIG. 52)	153, 1175, 1191	
	A&M 76D		
22	(102)STD 6D	102(30)	APP FIG. 22
23	(102)STD 9D	196	APP FIG. 23
	STD 53D		

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
24	STD 11D	135(38), 1228, 1243	APP FIG. 24
25	(102) STD 11D	135(38)	APP FIG. 25, 80/D1
	STD 53D	1137, 1166, 1177, 1208, 1209, 1246	
26	(102)STD 11D	135(38)	APP FIG. 26, 68/B6, 6187
	STD 53B	1209	
27	(102)STD 11D	102(38), 135(38), 1192, 1195 1200, 1247 1251	APP FIG. 27, 58/C4, E3, G4, 68/B7
	MD 80D, (REPLACE BY FIG.154)		
28	(102)STD 11D	135(38)	APP FIG. 28, 58/D5
	MD 22D (REPL BY FIG. 39)	1192	
29	(102) STD 11D	135(38)	APP FIG. 29
	STD 90D	1192, 1228, 1247	
30	(102) STD 11D	102(40), 135(40)	APP FIG. 30, 73A0
31	(102) STD 11D	1104, 1208	APP FIG. 31, 48A/D2, E2
32	(102)STD 11D	102(41), 115	APP FIG. 32
33	(102)STD 11D	115,	APP FIG. 33
	MD 76D (REPL BY FIG 143	1176, 1180	
34	(102)STD 13D	102(42), 115, 1180	APP FIG. 34
35	(102)S.J 13D	102(28), 116	APP FIG. 35
36	(102)STD 13D	102(28), 116	APP FIG. 36
37	(102)STD 16D	135(34)	APP FIG. 37
	STD 21D		
	A&M 41D	155	
38	(102)STD 16	102(46), 135(46)	APP FIG. 38
	STD 21D		
39	(102)STD 22D	102(33), 1166	APP FIG. 39, 5C/B9
	MD 80D (REPL BY FIG.154)	1192	
	A&M 98B		
40	(102)STD 22D	102(48)	APP FIG. 40, 49B/B3, C3, E1
41	(102)STD 22D	102(48)	APP FIG. 41, 8D/D1
42	(102)STD 22D	102(48)	APP FIG. 42
43	(102)STD 22D	165, 175	APP FIG. 43
	A&M 49D (REPL BY FIG. 63)		

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
44	(102)STD 22D	102(48)	APP FIG. 44, 56A/F5
45	(102)STD 22D	102(61), 1173	APP FIG. 45
46	(102)STD 32D	102(48), 176	APP FIG. 46
47	(102)STD 32D	102(17), 1119	APP FIG. 47, 6A/C3
48	(102)STD 32D	102(49)	APP FIG. 48
49	(102)STD 43D	102(51)	APP FIG. 49, 48A/C4, G3, G8, H8, 48B/C4, 95A/D1
50	(102)STD 43D		APP FIG. 50
	MD 53D (REPL BY FIG. 124)	1151	
51	(102)STD 43D	171, 1105	APP FIG. 51
	MD 53D		
52	STD 43D	153, 1175, 1191	APP FIG. 52
	MD 51D (REPL BY FIG. 81)		
53	A&M 48D (REPL BY FIG. 54)	160, 165	APP FIG. 53
54	(102)STD 48D		APP FIG. 54
	MD 51D (REPL BY FIG. 82)		
55	(102)STD 48D	102(54), 161, 1111, 1112	APP FIG. 55
56	(102)STD 48D	102(54), 1111	APP FIG. 56
57	(102)STD 49D	102(55), 1125	APP FIG. 57
58	(102)STD 49D	102(56), 1184	APP FIG. 58
59	(102)STD 49D	102(53) 1223	APP FIG. 59
	MD 88D		
60	(102)STD 49D	102(37)	APP FIG. 60 54B/F3
61	(102)STD 49D	102(58), 1208	APP FIG. 61
62	(102)STD 49D	102(59), 1219	APP FIG. 62
	MD 88D		
63	(102)STD 49D	175	APP FIG. 63
	A&M 51D (REPL BY FIG. 85)		

DRAWING ISSUE

53D	CL AMD
54B	B EM CML AMD
56D	MRS CML AMD
57A	MRS CML AMD
59A	CL AMD
61A	AJH AMD
62D	AJH AMD
63D	GE MB BHD
65D	WM LB AMD
66A	WM LB AMD
67D	WLH
68A	WLH
71D	RJF
73D	
74A	
75B	
75D	
77A	
78D	
79A	
80D	
82D	

ISSUE 100B

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD
A&M - ADDITIONS AND MAINTENANCE ONLY
MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A42

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-A42

STABILO 3M

OPTION INDEX

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
64	(102)STD 49D	102(60)	APP FIG. 64
65	A&M 49D	177	APP FIG. 65
66	(102)STD 51D	102(62)	APP FIG. 66
	MD 102B	1257	
67	MD 51D (REPL BY FIG. 74)	182	APP FIG. 67
68	MD 51D (REPL BY FIG. 74)	182	APP FIG. 68
69	A&M 51D (REPL BY FIG. 74)	182	APP FIG. 69
70	A&M 51D (REPL BY FIG. 74)	182	APP FIG. 70
71	A&M 51D (REPL BY FIG. 74)	182	APP FIG. 71
72	A&M 51D (REPL BY FIG. 74)	182	APP FIG. 72
73	A&M 51D (REPL BY FIG. 74)	182	APP FIG. 73
74	STD 51D		APP FIG. 74
75	A&M 51D (REPL BY FIG. 74)	182	APP FIG. 75
76	(102)STD 51D	102(63), 1135	APP FIG. 76
77	(102)STD 53D	102(64),	APP FIG. 77,97C8,F8
78	STD 51D	1185	APP FIG. 78
79	MD 51D (REPL BY FIG. 80)	1185	APP FIG. 79
80	STD 51D	1185	APP FIG. 80
81	STD 51D	102(16), 1175,1187, 1191	APP FIG. 81
82	(102)STD 51D	160, 102(61)	APP FIG. 82
83	MD 51D (REPL BY FIG. 84)	1185	APP FIG. 83
84	STD 51D	1185	APP FIG. 84
85	(102)STD 51D	102(61), 175	APP FIG. 35

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
86	(102)STD 53D	102(66), 1112	APP FIG. 86, 52F6
87	(102)STD 53D	102(66)	APP FIG. 87, 11E5
88	(102)STD 53D	102(65),	APP FIG. 88
	MD 89A(AC)	1215	
89	(102)STD 54B	102(36), 193	APP FIG. 89
90	(102)STD 56D	102(67)	APP FIG. 90
91	STD 53D	1104, 1106	APP FIG. 91
92	(102) STD 53D	102(53)	APP FIG. 92
	MD 88D	1223	
93	(102)STD 51D	102(49)	APP FIG. 93
94	(102)STD 53D	102(69)	APP FIG. 94
95	(102)STD 56D	1113, 1114, 1134, 1135	APP FIG. 95
	MD 58D(REPL BY FIG.96)		
96	(102)STD 58D	1114, 1134, 1135	APP FIG. 96
	MD 63D (REPL BY FIG. 112)		
97	(102)STD 53D	102(71)	APP FIG. 97 62B/A7,E7
98	(102)STD 58D	102(72)	APP FIG. 98
	MD 88D	1221	
99	(102)STD 58D	102(72) 1135	APP FIG. 99
	MD 88D	1221	
100	(102)STD 49D	102(60)	APP FIG. 100
101	(102)STD 60D	102(75)	APP FIG. 101,68/E4
102	SPL 60D	1122	APP FIG. 102
	MD 88D		
103	(102)STD 60D	102(64), 1122	APP FIG. 103
104	(102)STD 60D	102(76)	APP FIG. 104
105	(102)STD 62D	102(77)	APP FIG. 105,68/E4, 90E8
106	SPL 60D	1126	APP FIG. 106,
	MD 102B		
107	(102)STD 58D	102(78)	APP FIG. 107
108	(102)STD 62D	102(79)	APP FIG. 108
109	(102)STD 62D	102(80)	APP FIG. 109
110	(102)STD 53D	102(59), 171	APP FIG. 110
	MD 88D	1219	
111	(102)STD 63D	102(82)	APP FIG. 111
112	(102)STD 63D	1135 102(70)	APP FIG. 112
	MD 88D (REPL BY FIG.116)	1220	

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
113	102(STD) 63D	102(83), 1232	APP FIG 113
114	102(STD) 63D	102(85)	APP FIG 114
	STD 96B	1243	
116	102(STD) 63D	102(70) 1220	APP FIG 116
117	(102)STD 65D	102(87)	APP FIG 117
118	SPL 63D	1126	APP FIG 118
	MD 102B		
119	(102)STD 65D		APP FIG 119
	MD 84D	1208	
120	(102)STD 65D		APP FIG 120,408/F7 65B/F2
	MD 84D	1208	
121	(102)STD 65D	102(89), 1208	APP FIG 121
122	(102)STD 67D	102(64)	APP FIG 122
123	(102)STD 67D	102(86)	APP FIG 123
	MD 88D	1218	
124	(102)STD 63D	102(52)	APP FIG 124
125	(102)STD 67D	102(18)	APP FIG 125
126	(102)STD 67D	102(18)	APP FIG 126
127	(102)STD 67D	102(18)	APP FIG 127
128	(102)STD 67D	102(18)	APP FIG 128
129	(102)STD 65D	102(90), 1208	APP FIG 129
130	(102)STD 67D	102(64)	APP FIG 130
131	(102)STD 67D	102(91)	APP FIG 131
132	(102)STD 67D	102(18), 1211	APP FIG 132
133	(102)STD 69D	102(92)	APP FIG.133
134	(102)STD 71D	102(93)	APP FIG 134,5A/D4, 113G3
	MD 102B	1257	
135	(102)STD 71D	102(93)	APP FIG 135,113G3
	MD 102B	1257	
136	(102)STD 71D	102(93)	APP FIG 136
	MD 102B	1257	
137	A&M 73D	1168, 1255	APP FIG 137,115C5
138	STD 76D	1171,1179 1192	APP FIG 138
139	(102)STD 71D	102(93)	APP FIG 139
	MD 102B	1257	
140	(102)STD 78D	102(99)	APP FIG 140
143	(102)STD 76D	102(42) 115,1176, 1180	APP FIG.143

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
144	A&M 73D	1168,1247 1255	APP FIG. 144,115C4
145	(102) STD 76D	102(97)	APP FIG. 145
146	(102)STD 76D	102(97)	APP FIG.146
148	STD 76D	1180, 1229	APP FIG. 148
149	(102)STD 76D	102(98)	APP FIG. 149
	STD 82D	1180	
150	STD 76D	1182	APP FIG. 150
151	STD 78D	1187	APP FIG. 151
152	STD 78D	1187	APP FIG.152
153	(102)STD 80D	102(101)	APP FIG.153
154	(102)STD 80D		APP FIG. 154
	STD 90D	1192,1195, 1200,1228, 1247,1260	
155	A&M 84D	1208	APP FIG.155
156	A&M 86D	1208	APP FIG. 156
158	(102)STD 86D	102 (103)	APP FIG. 158
159	(102)STD 56D	102 (20)	APP FIG. 159
	MD 80D (REPL BY FIG.154)	1192, 1250	
	A&M 98B		
160	A&M 88D (REPL BY 8X)	1208	APP FIG. 160
161	A&M ONLY 86D	1211	APP FIG. 161
163	STD 89A (AC)	1215	APP FIG. 163
164	(102)STD 89A (AC)	102(61), 1127	APP FIG. 164
165	(102)STD 96B	102 (110)	APP FIG. 165

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
166	(102) STD 96D	102 (111)	APP FIG. 166
167	(102) STD 96D	102 (111)	APP FIG. 167
168	(102) STD 96D	102 (112)	APP FIG. 168
169	(102) STD 96B	102 (112)	APP FIG. 169
170	(102)STD 98B	102 (107), 1248	APP FIG. 170
171	(102)STD 98B	102 (107), 1248	APP FIG. 171
172	(102)STD 98B	102 (107), 1248	APP FIG. 172
173	(102)STD 98B	102 (71)	APP FIG. 173
174	A&M 98B	1192	APP FIG. 174
175	STD 98B	1253	APP FIG. 175
176	STD 86D	1256	APP FIG. 176
177	(102)STD 102B	102 (114)	APP FIG 177
178	(102)STD 102B	102 (114)	APP FIG 178, 51A/G1
179	(102)STD 104B	102 (116)	APP FIG 179
180	A&M 106B	1255	APP FIG 180

DRAWING ISSUE

53D	CL, EML, AND
54B	EML, AND
56D	EML, AND
57A	EML, AND
58D	EML, AND
59A	EML, AND
60D	EML, AND
61A	MS, ESL, AND
62D	MS, ESL, AND
63D	NEW, MD
64A	NEW, AND
65D	WM, E.A., AND
66A	WM, E.A., AND
67D	WLM
68A	WLM
70A	LFP
71D	RJF
73D	
74A	
76D	
78D	
79A	
80D	
82D	
83A	

ISSUE 106B

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD
A&M - ADDITIONS AND MAINTENANCE ONLY
MD - MANUFACTURE DISCONTINUED
SPL - SPECIAL

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A43

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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OPTION INDEX

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
Z	(102)STD 1	135(26)	APP FIG 4
	STD 21D		
Y	(102)STD 1	135(26)	APP FIG 4
	STD 21D		
X	(102)STD 1	135(26)	APP FIG 4
	STD 21D		
W	(102)STD 1	135(26)	APP FIG 4
	STD 21D		
V	(102)STD 1	135(26)	APP FIG 4
	STD 21D		
U	(102)STD 1	135(26)	APP FIG 4 8A/D7
	STD 21D		
	MD 56D (REPL BY "FG")	1101	
T	(102)STD 1	135(26)	APP FIG 4
	STD 21D		
S	(102)STD 1	135(21)	APP FIG 5
	STD 21D		
R	(102)STD 1	135(21)	APP FIG 5
	STD 21D		
Q	(102)STD 1	135(21)	APP FIG 5
	STD 21D		
P	(102)STD 1		APP FIG U
	A&M 21D	133,1185	
N	(102)STD 1	102(17) 135(17)	APP FIG 5,12,13, & 17
M	(102)STD 1	135(17)	APP FIG 11,12, 13,17
	STD 21D	1166,1199, 1247	
K	(102)STD 1	102(19)	APP FIG 17
J	(102)STD 1	102(28)	APP FIG 3
H	(102)STD 1	135(17)	APP FIG 12
	STD 21D		
	MD 51D (REPL BY "JF")	1185	
G	(102)STD 1		APP FIG 1
	STD 41D	150	
	MD 63D (REPL BY "G")	1151	
F	(102)STD 1		65B/H2,H4 96F8
	MD 41D (REPL BY "G")	150	
E	(102)STD 1		65B/H2,96F8
	MD 41D (REPL BY "G")	150	
D	(102)STD 1		APP FIG 9
B	(102)STD 1		APP FIG 16
	MD 8B (REPL BY "ZR")		
A	(102)STD 1		APP FIG 5, 54B/G1
	A&M 21D	132	

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
ZA	(102)STD 1	102(17) 135(17)	13A/G1
ZB	(102)STD 1	102(17) 135(17) 1208	13A/G2
ZC	(102)STD 1	102(17) 135(17)	13A/G3
ZD	(102)STD 1	102(17) 135(17)	3A/G6,13A/G4
ZE	(102)STD 1	1125,1144	APP FIG.11
	A&M 63D		
ZF	(102)STD 1		APP FIG.6,23B/G1
	STD 21D	135(22)	
	MD 51D (REPL BY "JF")	1185	
ZG	MD 90 (REPL BY "XA" OR "XB")	1185	APP FIG. 7
ZH	(102)STD 1		APP FIG.7
	STD 21D	135(34) 151,155	
ZJ	(102)STD 1		APP FIG.F
	STD 21D	135(29), 1191	
ZK	(102)STD 1		APP FIG.F
	STD 21D	135(29), 1191	
ZL	MD 9D (REPL BY "ZM")		APP FIG.15, 51A/E3
ZM	STD 8D	111	APP FIG. 15
ZN	STD 7A	105,141	3800
ZO	MD 8D (REPL BY "ZP")	147, 160, 1161	APP FIG.3 & 68, 68/A8, 29H5, 29F6, 29H6, 50B/E4, 63B/E8
ZP	STD 8D	106,147	APP FIG. 68, 3A/G6
	MD 48D (REPL BY "QT")	160, 1161	
ZQ	(102)STD 7A	102(32)	50B/C6
ZR	(102)STD 8D	102(25)	APP FIG 16
ZS	MD 8D (REPL BY "ZT")		APP FIG.17
ZT	STD 8D		APP FIG 17
ZU	MD 8D (REPL BY "ZV")		57A/E5
ZV	STD 8D		57A/E5

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
ZW	MD 11D (REPL BY "ZX")		APP FIG.8, 59E7
ZX	STD 11D	112	59E7,5907
ZY	MD 7A (REPL BY "ZZ")		35A/G4,35A/H4
ZZ	STD 7A	118, 1125	33A/G7,34A/F7, 34A/H7,35A/C4, 33A/F0, 35A/G4
	MD 11D (REPL BY "XK")		
YA	MD 8D (REPL BY "YD")		APP FIG. 125
YB	STD 8D		APP FIG. 125
YC	MD 8D (REPL BY "YD")		64E2,64F3,64G2
YD	(102) STD 8D	102(25)	APP FIG. 16
YE	(102) STD 9D	196	60A/B2,60A/G1
	MD 53D		
YF	(102) STD 11D	1137, 135(38)	8A/C0-C7,D0-D7,E5, 8C/B4,8C/C4,8D/C3,D3 10A/E4-E6,E8, E9,10B/C0, C1,27A6,28B/E9, 41A/E0,E1,41C/E1 42A/D2,42B/D2, 44A/F4,H4,45C6, E6,47C4,52B/G1, 53A/F0,55C2,56A/G7, 57A/B8,F8,G8, 57B/E7.
	MD 53D (REPL BY APP FIG. 25)	1137, 1209	
YG	(102)STD 11D	135(38)	5A/C1,C2,C4,C5
	STD 90D	1192 1228	
YH	MD 9D (REPL BY "YI")		41C/F1
YI	(102)STD 9D	102(36)	41C/F1
YJ	MD 9D (REPL BY "YK")		10A/C8,10B/H5, 10B/E5,10B/G6
YK	STD 9D		10A/C8,10B/G5, 10B/D5,
YL	MD 9D (REPL BY "YM")		42A/A6,D3
YM	STD 9D		APP FIG.9, 42A/A6,42A/E3
YN	MD 11D (REPL BY "XX")		2A/H1,6A/G5
YO	(102) STD 11D		APP FIG. 25
	A&M 21D	134,1185	

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
YP	(102)STD 11D	135(38)	52A/E1, 52B/F6
	MD 53D (REPL BY APP FIG.25)	1209	
YQ	(102)STD 63D	102(70) 1220	13B/B3,18A/D8,18A/C3, 18A/F6-F9
YR	MD 11D (REPL BY "YS")	153,1132, 1166,1192, 1210	APP FIG. 3, 4A/D1,B1, 5B/H1
YS	STD 11D	110,141,153, 192,1132, 1166,1180, 1192,1193, 1210	APP FIG. 3, 4A/B1
YT	MD 9D(REPL BY "YU")	1125	35A/H1,35A/H2, 35A/G1
YU	STD 9D	108, 1125	34B/B4,35A/E2, 35A/H1,35A/H2, 35A/G1
	A&M 63D		
YV	(102)STD 9D	135(34) 139, 1125	33A/H3,35A/E6
	MD 22D (REPL BY "YW")		
YW	(102)STD 9D	135(34), 138,139, 1125	33A/D4,33A/E3, 33A/G3,33B/D3, 33B/E3,33B/F3, 35A/E6-E9,35A/H1, 35A/H3
	STD 22D		
	A&M 63D		
YX	(102)STD 9D	135(35), 159(D), 1125	APP FIG. 11
	STD 21D		
	MD 48 (REPL BY "QZ")		
YY	(102)STD 9D	135(34) 135(35)	APP FIG. 11
	MD 22D (REPL BY "VX")		
YZ	(102)STD 9D	135(34)	APP FIG. 7
	STD 21D	151,155	
XA	(102)STD 9D	135(34)	APP FIG. 7
	MD 21D (REPL BY "XB")	1185	
XB	(102)STD 9D	135(34)	APP FIG. 7
	STD 21D		
	MD 51D (REPL BY "JF")	151 1185	
XC	STD 9D		29E5,29F5
XD	MD 9D	1185	23A/D6,D8,D9, 23B/B3,B7,D9,F2
XE	(102)STD 9D		60A/G1
	STD 53D	196	

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
XF	(102)STD 11D	135(40)	10B/C6
	MD 21D (REPL BY "XV" OR "XW")		
XG	MD 11D (REPL BY "XH")	114,1137	APP FIG. 1
XH	STD 11D	114,1123, 1137,1180, 1208	APP FIG.1
XI	(102)STD 11D	102(36)	APP FIG.2,3, 18/G5,68/B6,89,C9, 18A/B0,F0, 65B/B3,D1,D3,E2, F4,G0-G2,H4
XJ	(102)STD 11D	1208	6506,6503,6505 65B/C4,C6,E4
XK	STD 11D	107,1125	33A/G7,34A/F7, 34A/H7,35A/G4, 35A/H4
	A&M 63D		
XL	(102)STD 11D	135(34), 1125	33A/D4,33A/E3, 33A/G3, 33B/J3,33B/E3, 33B/F3
	MD 21D (REPL BY "YV" OR "YW")		
XM	(102)STD 11D	135(34)	33A/H3
	MD 21D (REPL BY "YV" OR "YW")		
XN	MD 11D (REPL BY "XO")		APP FIG.1
XO	STD 11D	113	APP FIG.1,67F9
XP	(102)STD 11D	135(35), 159(D), 1125	APP FIG. 11
	MD 21D (REPL BY "YX")		
XQ	(102)STD 11D	1103, 1213	APP FIG. 13
	MD 56D (REPL BY "XR")		
XR	(102) STD 11D	1103, 1213	APP FIG. 13
	STD 56D		
	MD 88D		
XS	(102)STD 11D	1213	APP FIG. 13
	MD 88D		
XT	(102)STD 11D	1213	APP FIG. 13
	MD 88D		
XU	(102)STD 11D	102(39), 1213	APP FIG. 13
	MD 88D		
XV	(102)STD 11D	102(40) 135(40)	10B/C8
XW	(102)STD 11D	102(40) 135(40)	10B/C8,73D1

DRAWING ISSUE: 53D, 54B, 55A, 56D, 59A, 60D, 61A, 62D, 63D, 64A, 65D, 66A, 67D, 68A, 70A, 71D, 73D, 74A, 75B, 76D, 77A, 78D, 80D, REPUBLISHED WITHOUT CHANGE 4-6-71, 82D

ISSUE 103A

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED

STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS AND MAINTENANCE ONLY

MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-A45

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-A45

STABILOK

OPTION INDEX

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
XX	(102)STD 11D	135(38)	6A/G6
	STD 21D		
XY	(102)STD 11D	135(40)	10B/C6
	STD 21D		
XZ	(102)STD 11D	102(37)	APP FIG. 22
WA	MD 13D (REPL BY "WB")		APP FIG. 13
WB	STD 13D		APP FIG. 13
WC	(102)STD 13D	135(35), 159(D), 1125	APP FIG. 11, 33A/G5
	STD 21D		
	MD 48D (REPL BY "QZ")		
WD	(102)STD 13D	135(43), 159(E), 1125	APP FIG. 11, 33A/G5
	STD 21D		
	MD 48D (REPL BY "PB")		
WE	MD 13D (REPL BY "WF")	1116	APP FIG. 20, 5E2, 5E3
WF	STD 13D	1116	APP FIG. 20, 5A/E3
	MD 58D (REPL BY "DY")		
WG	(102)STD 13D	135(35), 1125, 1145	35A/F4
	STD 21D		
	A&M 63D		
WH	(102)STD 13D	135(44), 1125, 1145	35A/C4, 35A/F4
	STD 21D		
	A&M 63D		
WI	(102)STD 13D	135(45)	38E4
	MD 21D (REPL BY "WJ")	1185	
WJ	(102)STD 13D	135(45)	19A4, 38B1, 38D4
	STD 21D		
WK	MD 13D (REPL BY "WL")	1185	APP FIG. 13, 38B0-B3
WL	STD 13D	1185	APP FIG. 13, 38B0-B3
	MD 51D (REPL BY "JF")		
WM	MD 13D (REPL BY "WH")	118, 1125	35A/C4, 35A/F4
WN	STD 15D	110, 141, 145, 1192	APP FIG. 17, 57A/A6
WO	MD 13D (REPL BY "WP"	124, 190	APP FIG 15, 51B/D7, 51B/F7

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
WP	STD 13D	124	APP FIG. 15
WQ	MD 13D (REPL BY "WR")		APP FIG. 15
WR	STD 13D	119	APP FIG. 7, & 15
WS	MD 18D (REPL BY "WT", "TT" OR "TU")		32F7
WT	STD 18D	125	32F6, 32F7
WU	MD 18D (REPL BY "WX")		APP FIG. 15
WV	(102)STD 65D	102(87)	53B/E5
WW	MD 18D (REPL BY "WX")	1125	33A/C0, 33B/A7
WX	STD 18D	125, 1125, 1247	APP FIG 16 & 17.
	A&M 63D (REPL BY "ZXE")		
WY	MD 14B (REPL BY "WZ")	153	51B/A8, 51B/C8, 51B/H8, 52A/A1, B6
WZ	STD 14B	123, 153	51B/D7, 51B/G7
VA	MD 14B (REPL BY "VD")	120	51B/D0, 51B/F3
VB	MD 14B (REPL BY "VD")	120	APP FIG. 15
VC	MD 14B (REPL BY "VD", "TG" OR "TJ")	120	APP FIG. 15, 51B/C1, 51B/D1
VD	STD 14B	120, 156	APP FIG. 15, 51B/C1, 51B/D1
	(102)STD 23B		
	STD 43D		
VE	(102) STD 16D	135 (38)	8A/C1, D1, 27F6, 27G6, 27H6, 45A5, 45G2-G6, 52A/C1
	MD 53D (REPL BY VJ)	1209	
VF	MD 16D (REPL BY "VG")		10A/B5, 42A/D1, 42B/E3, 44A/F8
VG	STD 16D	121 1185	APP FIG. 9, 8A/E1 10A/C5, C6, 45A5, 45G3, 45G5, 45H3, 45H6
VH	(102)STD 16D	135(34)	26A/G2, 60A/G1
	MD 21D (REPL BY "VI")		

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
VI	(102)STD 16D	135(34)	26A/F3, 26A/G3, 60A/G1
	STD 21D		
	A&M 41D (REPL BY "RG")	155	
VJ	(102)STD 16D	122, 135(38)	APP FIG. 25 8C/G0, 45A5, 45G3, 45G6, 52A/B1, B2
	STD 90D	1192, 1209, 1228	
VK	(102)STD 16D	135(46)	52A/B5, C4, C7
	MD 21D (REPL BY "VL")		
VL	(102) STD 16D	135(46)	52A/B5-B7
	STD 21D	123	
VM	(102)STD 18D	135(47)	APP FIG. 17 53C/D3, F3, G3
	STD 21D		
	MD 22D (REPL BY "US")	125	
VN	MD 17B (REPL BY "VO")		APP FIG. 15
VO	STD 17B	124	APP FIG. 15
VP	MD 17B (REPL BY "VO")		APP FIG. 15
VQ	MD 17B (REPL BY "VO")		APP FIG. 15
VR	MD 19AR (REPL BY "VS")	1139	28A/E4
	STD 63D		
VS	STD 19AR	1139	28A/D4
	A&M 63D		
VT	MD 21D (REPL BY "VU")		52B/F1
VU	STD 21D	129	APP FIG. 2 & 15
VV	(102)STD 21D	129, 1228	52B/A1, B1
	STD 53D	1209	
VW	(102)STD 21D	129	52B/B1
	MD 53D (REPL OT VV)	1209	
VX	STD 22D	141	APP FIG. 11
VY	(102) STD 22D	102(48)	1A/B3, 2B/B3, 6B/C7, F5, 29D6, 31E5, 37A/E4, 38B9, D9, 54B/G0, 57A/E2, 57B/C1, 64B7, 64B8, 64C8, 67A/A2, 67C4, 67C5, 67D9, 67F7, 69A/D1, E2, 70D6, 70D8, 70E6, 70E8, 71D4, 95A/G2 95B/G2

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
VZ	(102)STD 22D	102(48)	1A/C3, 1B/C5, C8, 2B/B3, 3A/D8 4A/J1, 6B/C6, D1, F5, G4, 11F6, 12F7, 20A/G2, 29D7, 31C1, 31E5, 31E6, 31F3, 31F8, 37A/E4, 37B/D1 39A/E1, H1, 40C8, 47B9 48A/D7, 49A/G6, H6 53B/C2, D4, 54B/H0, 56A/E5, 57A/D2, E5, E8, 57B/A0, C1, 58E2, 61G2, 61H3, 64B7, 64B8, 64C8, 65A/A2, 67C4, 67C5, 67D9, 67F7, 69A/D1, E2 70D6, 70D8, 70E6, 70E8, 71D4, 95A/G2 95B/G2
UA	MD (60D) (REPL BY "UE")	1122, 1148	39A/B3
UB	MD (60D) (REPL BY "UE")	1122, 1148	39A/B1
UC	MD (60D) (REPL BY "UE")	1122, 1148	39A/B1
UD	MD (60D) (REPL BY "UE")	1122, 1148	39A/B0
UE	STD 60D	1122, 1148	11B/E3, 39A/B0
UF	MD 20B (REPL BY "UG")		APP FIG. 31, 48A/F5
UG	STD 20B	128	48A/F5
UH	STD 22D		APP FIG. 16, 67E7
	MD 48D (REPL BY "PG")		
UI	MD 22D (REPL BY "UJ")	153, 164	APP FIG. 2 & 3
UJ	STD 22D	138, 141, 153, 164	APP FIG. 2, 3 & 25
UK	MD 21D (REPL BY "UL")		APP FIG. 6
UL	STD 21D	130	APP FIG. 6, 22A/G0
UM	MD 21D (REPL BY "UN")	1185	APP FIG. 25
UN	STD 21D	131	44A/A1
UO	STD 21D	131	44B/C0, D0
UP	STD 22D	149	35A/E7
	MD 38A (REPL BY "ST")		
UQ	MD 22D (REPL BY "VR")	1180, 1210	3A/G5, 63B/A8, B8
UR	STD 22D		3A/G5

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
US	STD 22D	125	APP FIG. 17, 53C/D3, F3, G3
UT	MD 22D (REPL BY UP, UU, OR UV)	137, 1125	33A/G3, 33A/C4, 34C5, 35A/H6, 35A/C7, 35A/C8, 35A/C9
UU	STD 22D	137, 138, 1125	35A/H6
	A&M 63D		
UV	STD 22D	138, 1125	APP FIG 11, 33A/D3, 33A/H4, 35A/C7, 35A/C8 35A/C9, 35A/E7, 35A/H6
	A&M 63D		
UW	STD 22D	138, 141 1125, 1168, 1255	APP FIG. 13
UX	MD 20B (REPL BY "UY")	127, 1177, 1180	41A/C2
UY	STD 20B	127, 1177, 1247	APP FIG. 9, 53A/F8
UZ	MD 20B (REPL BY "TA")	1192	5A/C2
TA	STD 20B	136, 1192	5A/C2
TB	MD 22D (REPL BY "TC")		5A/H4, H5, 20B/D6
TC	STD 22D	140, 143	5A/G4, 20B/D6
TD	A&M 22D (REPL BY "TE")		5A/F6, 54B/F1, 56B/D4
TE	STD 22D	140	5A/G5, G6, F6, 31C0, 54B/F1, 56B/D3
TF	STD 23B	156	APP FIG. 15
	MD 60D		
TG	(102) STD 23D	120	APP FIG. 15
	MD 43D (REPL BY "TI" OR "VD")	156	
TH	(102)STD 22D	102(47)	APP FIG. 35 & 36, 46H1, 47D7, 47D8

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED

STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS AND MAINTENANCE ONLY

MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

DRAWING ISSUE

530 | 560 | 580 | 594 | 600 | 614 | 620 | 650 | 664 | 670 | 684 | 704 | 710 | 730 | 750 | 780 | 794 | 800 | 814 | 820

ISSUE 103A

OPTION INDEX

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
TI	(102)STD 238		51B/CI
	STD 43D	156	
TJ	(102)STD 238	120	51B/FI
	MD 43D (REPL BY "TI" OR "VD")	156	
TK	STD 22D	138	APP FIG 11
TL	MD 22D (REPL BY "TK" OR "VD")	1168, 1255	APP FIG 13
TM	MD 28B (REPL BY "TN")		49A/EI,E2,E3,FI, F2,G4, 71A1,71A3,71G1, 71G5
TN	STD 28B	141	APP FIG. 41,49B/B1, 71A4,71C1,71D4, 71E6,71F4,71H1
TO	STD 53D	102(59), 171	56B/G6 75B6, 75B7
	MD 88D	1219	
TP	MD 30B (REPL BY "TQ")		7B/G1,G2,H1, 11B/F5,G5
TQ.	STD 30B		APP FIG 3,11B/G5, 56A/F3
TR	MD 22D (REPL BY "TS")		CAD 61
TS	STD 22D	138	CAD 61
TT	STD 18D	125	54B/C7,C8
TU	A&M 18D (REPL BY "WT" OR "TT")	125	54B/C7,C8
TV	STD 16D	144	26A/H1
TW	MD 28D (REPL BY "TX")	1115	6A/D7,D8,6B/C0
TX	STD 28D	1115	6B/C0
TY	MD 29A (REPL BY "TZ")	164, 1168, 1255	4B/F2
TZ	STD 29A	138,141, 145,164, 1168,1255	APP FIG 2 4B/F1

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
SA	(102)STD 32D	102(49)	5A/C4 ,12C7,12E7, 54B/F7,56B/C1
SB	(102)STD 32D	102(49)	4B/G0,G2, 5A/C4 6A/A5,D6,12C7, 12E7, 53A/F5, 54B/F7,H7,56B/C1 67C6,69A/E1, F0,F1, 69B/E5,G2,G3
SC	MD 32D (REPL BY "SD")	180	APP FIG 47
SD	(102)STD 32D	180, 1102	APP FIG 47,69A/F1, 69B/E2
	A&M 51D (REPL BY "KH")		
SE	MD 31B (REPL BY "SF")	1168, 1255	8D/H2
SF	STD 31B	145,1168, 1255	8D/H2
SG	MD 62D (REPL BY "SH")	1131,1138, 1168,1255	APP FIG 3
SH	STD(62D)	1131,1138, 1168,1255	APP FIG 3
SI	MD 65D (REPL BY "SJ")	1147	53B/F5
SJ	(102)STD 65D	1147 102(87)	53B/F5
SK	(102)STD 31B	102(48)	53C/E5,63B/G8
SL	(102)STD 49D	102(53)	32C2,56A/C8, 56B/D5
	MD 88D	1223	
SM	MD 35D (REPL BY "SN")	146	5B/C5,D7,65A/A7
SN	STD 35D	146, 1195	5A/A1, B0,B1,5B/D4,D5, 6B/B6,B9,65A/A7
SO	MD 22D (REPL BY "SP")	1252	7A/F2,G3
SP	STD 22D	1252	7A/F3,G2
SQ	(102)STD 22D	102(34)	52B/A1
SR	STD 37D	147	29E6,29F5
SS	MD 38A (REPL BY "ST")	149	35A/E7
	STD 38A		
ST	A & M 63D	149, 1125	35A/E7

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
SU	STD 38A	138,	33A/G1
	A&M 63D	1125	
SV	MD 37D (REPL BY "SW" & "SX")	148, 1125	34A/C8
	STD 37D		
SW	A & M 63D	145,1125	34A/B7
SX	STD 37D	148	APP FIG 17
	MD 48D (REPL BY "PH")	163	
SY	MD 39B (REPL BY "RQ" OR "SZ")		67C8,71F7
SZ	STD 39B	140,141 1205,1206	67E7
RA	(102)STD 22D		APP FIG 41
RB	MD 41D (REPL BY "RC")	1185	APP FIG 7,29E5, 29F5,29H5,29H6
RC	STD 41D	151	APP FIG 7,29H5, 29H6
	A&M 51D (REPL BY "JF")	182(H) 1185	
RD	MD 41D (REPL BY "RE")	191, 1185, 1242	APP FIG 6 & 7, 33A/G3, 35A/G4, 35A/E9,35A/F8, 35A/F9,35A/H6, 35A/H7

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
RE	STD 41D	151,155, 161, 191,1195, 1242	APP FIG.6
	MD 53D(REPL BY "JF")		
	A&M 53D		
RF	A&M 41D (REPL BY "RG")	155	26A/C2,26B/C9, 26B/C9,27D4,27E6, 27F7,27G7,27H7, 60A/G3
RG	STD 41D	151	APP FIG 7,27C1, 27C3,27E1
RH	(102)STD 41D	102(50), 155,1107	APP FIG. 7,26B/C7, C8,D6,D8 27E1,27E6
RI	MD 43D (REPL BY "MX")	153	1A/B2,9C7,D6,G2,G4 1284,1287,12C5, 12E1, 14B/F4,20A/D5, 20B/C3,28A/C6,29C3, 37A/D6,39A/D3,F3, 40A6,50A/D1,E3,50B/C4 52B/C7
RJ	(102)STD 43D	102(51)	98J, 48A/B4,B7 48B/A6, 50B/C3,7487, 95A/C3,H1
RK	(102)STD 43D	1151	96G5
	MD 63D (REPL BY FIG.50)		
RL	STD 43D		APP FIG 1
RM	MD 43D (REPL BY "RN")		14H2,14H4, 22A/G0, 23B/F8 24B/F6,25A1, 25G1
RN	STD 43D		14H2,14H4, 22A/G0, 23B/F8 24B/F6,25A1,25H1
RO	MD 43D (REPL BY "MY")	153	7A/D4,42B/D0, 65A/D4,E4, 65B/E5,E7
	STD 88D	1222	
RP	(102)STD 43D	171, 1105	56B/F6,75A6 75E6,75F5,75G7
	MD 53D		
RQ	STD 39B	141, 1205,1206	71F7
RR	(102)STD 43D	102(36)	65B/C4,C6,E4, 74F2
RS	MD 43D (REPL BY "RT")	153, 1110, 1166	APP FIG 2,14 & 15

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
RT	STD 43D	153, 1110, 1166	APP FIG 2,14 & 15, 74C7, 74D5, 74D7
RU	MD 43D (REPL BY "RV")	1125	34A/C5
RV	STD 43D	154,1125	34A/C5
	A & M 63D		
RW	A&M 53D	1112	APP FIG 86
RX	STD 43D	151,155	APP FIG 7, 26A/G2, 60A/G1,60A/G3, 60A/G4
RY	A&M 43D	155, 1185, 1247	APP FIG 7,26A/E0, 26B/C0,27C4
	MD 56D (REPL BY "RX")		
RZ	A&M 43D	155	26A/C2,60A/G4
	MD 56D (REPL BY "RX")		

DRAWING ISSUE	
53D	REVISED AND
54B	REVISED AND
55A	REVISED AND
56D	REVISED AND
57A	REVISED AND
58D	CHANGED
60D	WAS AND ADDED
61A	WAS ADDED AND
63D	WAS ADDED AND
64A	CHANGED ADDED AND
65D	WAS CHANGED AND
66A	WAS CHANGED AND
67D	WAS
68A	WAS
71D	WAS
73D	
74A	
76D	
78D	
79A	
80D	
81A	
82D	CHANGED
85A	CHANGED

ISSUE 99A

* MEANING OF RATING

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MD - MANUFACTURE DISCONTINUED

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STABILO

MASTER TE ...NTROL CIRCUIT (2) SD-25800-01-A47

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

OPTION INDEX

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
QA	MD 44AC (REPL BY "QD")	157	65B/H2-H4
QB	MD 44AC (REPL BY "QD")	157	65B/H3
QC	MD 44AC (REPL BY "QD")	157	65B/G2,G5,H4
QD	STD 44AC	157	65B/G2,G4
QE	MD 43D (REPL BY "QF")	153,178	APP FIG.9,43C1
	*		
QF	STD 43D	153,178	APP FIG. 9
	MD 49D (REPL BY "LR")		
QG	MD 41D (REPL BY "QH")	158, 1125	34A/C7
QH	STD 41D	158, 1125	34A/C7
	A&M 63D		
QI	MD 48D (REPL BY "QJ")	146, 159 (A)	APP FIG.1
QJ	STD 48D	146,159 (A),1195	APP FIG.1 & 3
QK	MD 48D (REPL BY "QM")		APP FIG.75
QL	MD 48D (REPL BY "QM")		APP FIG.69
QM	STD 48D	182	APP FIG.69 & 75

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
QN	MD 48D (REPL BY "QQ")		APP FIG.67
QO	STD 48D	182	APP FIG.67 & 73
QP	A&M 48D	161,166	APP FIG. 3, 78F5,78G6
QQ	MD 43D (REPL BY "RX","RY" "RZ1, OR "QS")	153	29B4,29B5
QR	MD 43D (REPL BY "RX","RY" "RZ", OR "QZ")	153	29A2,29A4,74E1, 74D6
QS	STD 43D	153	29A4,29B5
QT	STD 48D	106,147, 160,182, 1161	APP FIG. 68, 3A/F6
QU	MD 48D	161, 1242	APP FIG.7
QV	STD 48D	161	APP FIG.F
	MD 65D (REPL BY "ZCC")	1242	
QW	MD 48D (REPL BY "QV")	161, 1242	APP FIG.7 & F
QX	STD 49D	138, 141, 161, 1125	APP FIG.7
	A&M 63D		
QY	MD 48D (REPL BY "QX")	161	APP FIG.7
QZ	STD 48D	159 (D), 1125	APP FIG. 11, 33A/G5
	A&M 63D		

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
PA	MD 48D (REPL BY "PB")	159(E), 1125	APP FIG.11
PB	STD 48D	159(E), 1125	APP FIG.11, 33A/G5
	MD 51D (REPL BY "JF")		
PC	MD 48D (REPL BY "PD")	159(F)	APP FIG.17
PD	STD 48D	159(F)	APP FIG.12 & 17
PE	MD 48D (REPL BY "PF")	115,	APP FIG.13
PF	STD 48D	115	APP FIG.13 & 32
PG	STD 48D	140,141 1205,1206	APP FIG.16,67E7
PH	STD 48D	148, 161,163, 1125	APP FIG.17
	A&M 63D		
PI	MD 48D (REPL BY "PK"	164,180	APP FIG.35
	STD 51D		
PJ	MD 48D (REPL BY "PK")	180	APP FIG.48
PK	STD 48D	164,180	APP FIG.35 & 48
	MD 51D (REPL BY "PI")		
PL	MD 48D (REPL BY "PN")		APP FIG.71
PM	MD 48D (REPL BY "PN")		APP FIG.72

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
PN	STD 48D	182	APP FIG.71 & 72
PO	MD 48D (REPL BY "PP")	161, 1111, 1127	APP FIG.55
PP	STD 48D	161,1111,1127	APP FIG.55
PQ	A&M 53D	1111	APP FIG. 55, 78E2
PR	STD 53D	1111	APP FIG. 55
PS	MD 49D (REPL BY "PU")	161	29C3, 29F6, 40A/F4
PT	MD 49D (REPL BY "PU")	161	78B7
PU	(102)STD 49D	161, 102(54), 1111	78A5
PV	MD 49D (REPL BY "PW")		32D2,56B/E1,E4
	STD 88D		
PW	STD 49D	168	32C2,D2,56B/E1,E4, 57A/D0
	MD 88D		
PX	MD 49D (REPL BY "PY")		50A/E7,E8,72G3, 74C2,74E2
PY	STD 49D	1224 168	65A/B3 APP FIG.49,74D1
PZ	MD 49D (REPL BY "QA")		65A/D5,E4,65B/E6 7A/D2,D3,D4, 65A/E4,65B/E6
QA	STD 49D	168	7A/D2,E3,E4, 65A/D5,E4,E5, 65B/E5,E6
	MD 88D (REPL BY RD)		
QB	(102)STD 49D	102(58), 1208	19D2,62D0,62F0

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
QC	(102)STD 48D	102(55)	19E2
QD	(102)STD 48D	102(55)	19A3
QE	(102)STD 48D	102(55)	19A3
QF	MD 49D (REPL BY "QG")		20A/C5
QG	STD 49D	168	20A/C5
QH	MD 48D (REPL BY "QI")	160	APP FIG.13 & 3
QI	STD 48D	160	APP FIG. 13 & 3
QJ	STD 48D	161, 1242	25C1,D3
	MD 65D		
QK	MD 48D (REPL BY "QJ")	161, 1242	APP FIG 7,25C1,D2, D3,E0,65B/A2
QL	MD 49D (REPL BY "QM")		APP FIG. 92, 68/A8 58C2
QM	STD 49D		APP FIG. 92
	MD 53D (REPL BY "FM")		
QN	MD 48D (REPL BY "QP" OR "LT")	160	12C0,12D0,31E4, 31E3,31G3,379/E2, 39A/F0,44A/E7 44B/F0,52B/E3, 54B/G3
QO	A&M 63D	1125, 1145	38E4
QP	(102)STD 48D	102(54), 161,1111	188/F0,F1,269/H7, 31F8 54B/H3, 78B1,78E7
QQ	MD 48D (REPL BY "QP" OR "LT")	161	12C4,12D4,49B/H1, 54B/G2,78D7,78E5
QR	MD 49D (REPL BY "QS")	167, 177, 1138, 1255	38/E1, 8D/D3, 18B/B1, C4, 54A/C1, D1,D3, 57A/F1, 57B/C4, 60A/B3,G6, G8

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED

STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS & MAINTENANCE ONLY

MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

DRAWING ISSUE

53D	PWM CMN AMD
55A	PWM CMN AMD
56D	MRS CMN AMD
57A	MRS CMN AMD
58D	CMN
59A	CMN
60D	CMN
61A	CMN
62D	CMN
63D	CMN
65D	CMN
66A	CMN
67D	CMN
68A	CMN
70A	CMN
71D	CMN
75D	
75B	
76D	
78A	
80D	
82D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT

SD-25800-01-A48

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-A48

STABILO

D-7400 10-011

OPTION INDEX

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
OS	STD 49D	167,177, 1255	18B/A0,A2,B0,B2,C5, 30D3, D4, E2,F3, 54A/D1, 57A/G0, G1, 57B/C4,E2, 60A/C3, G7,H5,62B/G6,G7
OT	(102)STD 49D	102 (57), 1258	52B/F4,53B/E3,F3, 61A6
OU	(102)STD 48D	102(48), 1108	49B/H1
OV	(102)STD 48D A&M 53D	1108	49B/G1,H1,H2
OW	MD 49D (REPL BY OY)	170, 1125	34A/C9
OX	MD 49D (REPL BY OY)	170, 1125	APP FIG 11
OY	STD 49D A&M 63D	170, 1125	APP FIG 11
OZ	(102)STD 49D	102(56), 177,1258	8D/E4,E5,18B/B2,C2, F7,28B/E4,30E1,E2, 54A/E0
NA	(102)STD 63D	102(84), 1168,1255, 1258	APP FIG 13
NB	MD 63D (REPL BY NF) A&M 73D	1138, 1168, 1255, 1258	8D/C7,F7
NC	MD 63D (REPL BY NF) A&M 73D	1138, 1168, 1255, 1258	8D/C5
ND	STD 63D	167,177, 1138, 1255	APP FIG. 13,3B/E1, 8D/E3,9D4, 18B/D4, E7
NE	MD 63D (REPL BY NF) A&M 73D	1138, 1168, 1255, 1258	30E3
NF	STD 63D	1138,1168 1255,1258	8D/C5,C7,C8,D5,F7, 30E4, 95B/C5
NG	A&M 63D	1138, 1255	18B/A2,B2,C5,54A/C1, 57A/F0,57B/C4, 60A/B3,G6,G8
NH	MD 63D (REPL BY ZVD) STD 88D MD 99A (REPL BY ZVD)	1168, 1216, 1227, 1255, 1258	57A/F2,F4,G2
NI	A&M 62D	1125,1145	35A/C3
NJ	A&M 62D	1125,1145	35A/D3
NK	(102)STD 63D	102(83)	40D8

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
NL	(102) STD 62D	102(17), 1141	54B/G2
NM	MD 63D (REPL BY NN)	1142,1138, 1166,1255	60A/E0
NN	STD 63D	1138,1142, 1166,1255	APP FIG 7,28A/E7
NO	STD 63D	1125	34B/B3,35A/D1
NP	MD 63D (REPL BY NQ)	1125	APP FIG 17
NQ	STD 63D	1125,1247	APP FIG 11,11F4, 33B/C3-H3,E1 35A/G4,35A/H4, 35B/A5,35B/D6
NR	MD 58D (REPL BY NS)	1136	60B/A8,60B/B7 60B/C8
NS	STD 58D	1136	60B/B7
NT	MD 63D (REPL BY NQ)	1125, 1258	1988,D5,E6,33A/C3, 33A/C6,33A/C7,33A/C8 33A/F5,33A/H3,33B/D3, 33B/F3-H3,34A/B9, 34A/B9,34A/D0, 34A/D3,34A/D6, 34A/F7,34A/G1, 34B/B7,34B/D7-G7
NU	A&M 63D	1125,1145	33A/F6
NV	A&M 63D	1125,1145, 1258	33A/D6
NW	A&M 63D	1125,1145	11F5,33A/D6, 33A/G0,34A/C6, 34A/E7,34A/F7
NX	A&M 63D	1125,1145	33A/C7,34B/H2
NY	A&M 63D	1125,1145	34A/D4,34A/F6
NZ	A&M 63D	1125,1145	34A/D4
MA	MD 49D (REPL BY MB) STD 88D	171	1A/E1
MB	STD 49D MD 88D (REPL BY MA)	171	1A/D1
MC	MD 49D (REPL BY MD)	171	56B/D7,75H6
MD	STD 49D MD 53D	171	56B/D7,75G6
ME	(102)STD 49D MD 88D	102(59) 1219	56B/F7,65A/E3,E7

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
MF	MD 49D (REPL BY MG) A&M 98B	173, 1166 1192	5B/F5,5C/H5
MG	STD 49D MD 80D (REPL BY FIG.154) A&M 98B	173, 1166 1192	APP FIG. 39,5B/A5, B4,G3,H4,5C/H5
MH	STD 49D	173,1169	APP FIG. 4,8D/D5,D6
MI	STD 49D	172,1115	APP FIG. 24
MJ	(102)STD 49D MD 63D (REPL BY FIG.112)	174, 1134, 1135	84F7,84G7
MK	(102)STD 49D	102(40)	73A1
ML	(102)STD 49D	102(40)	APP FIG 30
MM	(102)STD 49D	102(40)	10B/D8
MN	(102)STD 49D	102(40)	10B/D8,71F1,73F0
MO	(102)STD 49D	102(40)	10B/E8
MP	(102)STD 49D	102(40)	10B/F8,73G0
MQ	MD 49D (REPL BY MR)	1124	12D2
MR	STD 49D	1124	12C1
MS	STD 49D	1124	APP FIG 56
MT	STD 49D		69A/A5
MU	MD 49D (REPL BY MT)		69A/A5,69B/E5
MV	(102)STD 49D	102(60)	69A/A7,B7,C5,C7, 69B/A1
MW	MD 49D (REPL BY MZ)		69A/D7,E6,E7, 69B/C1
MX	STD 43D	153	1A/C2,1A/E3, 9D6,D7,G2,G3,G4, 12B5,12B8,12C5, 12E1,14B/F4, 20A/C5,D5,20B/C3, 28A/C5, 37A/D6,39A/F3,40A6 50A/C1,D2,E3, 50B/C4,52B/C7
MY	STD 43D MD 88D (REPL BY RQ)	153 1222	7A/C4,D4,E4,65B/E5, E7,65A/E4,E5,E7
MZ	(102)STD 49D	102(50)	69A/A7,B7,C6, 69B/A1,C1,E6,F3,F5
LA	(102)STD 49D	102(60)	67C3

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
LB	(102)STD 49D	102(60)	54B/F6
LC	(102)STD 48D	102(54), 1111	78B3
LD	(102)STD 53D	102(71)	63B/B1
LE	MD 49D (REPL BY LF)	174	APP FIG 95
LF	STD 49D MD 51D (REPL BY JQ)	174	APP FIG 95
LG	MD 49D (REPL BY LS)	178	APP FIG 9
LH	MD 48D	161	73G7
LI	MD 48D (REPL BY LJ)	162	APP FIG 12
LJ	STD 48D	162	APP FIG 12
LK	STD 48D MD 51D (REPL BY GE)		APP FIG 12
LL	MD 49D (REPL BY LS)	178	43A6,43D6,43F6
LM	MD 48D (REPL BY LN)	162	31A2,39B/G0,57A/B6 57B/A2
LN	STD 48D	162	APP FIG 11, 39B/E0, 39C/C1
LO	MD 48D (REPL BY PH)	163, 1125, 1179	34C8
LP	MD 49D (REPL BY LQ)	1166	20A/E8
LQ	STD 49D	169, 1166	APP FIG 4
LR	STD 49D	178	APP FIG 9
LS	STD 49D	178	APP FIG 9
LT	STD 48D	160, 161	12B3,12C1,12D1, 31E3,31E4,31G3,31G4 37B/E1,39A/F0,44A/E7 44B/G0,52B/E2, 54A6,B4,C6, 54B/H2,F2
LU	MD 48D (REPL BY LV)	160	12C4,31A3,39A/F1
LV	STD 48D	160	12C4,12D4,31A3, 31F3,31F4,39A/F1 54B/G2
LW	STD 49D	153,179	APP FIG 15,11E5

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
LX	A&M 51D (REPL BY LY)	180, 1102	APP FIG 45
LY	STD 51D	180, 1102	APP FIG 45,21C5
LZ	A&M 51D (REPL BY LY)	180, 1102	38/B6,D7,6A/A1,C2, 20A/C0,21C5-C8, 21E6,21E7,21F5
KA	A&M 51D (REPL BY LY & KB)	180, 1102	APP FIG 45, 1A/A7, 38/B7,D7,E6, 5A/F1,6A/A1,C1, 20A/C0,21C2, 21C4,21F5,21E6, 21E7,61H3,69A/D1, 69B/E1
KB	STD 51D	180, 1102	APP FIG 45,69A/D1
KC	STD 51D	180	1A/A7,38/B7
KD	A&M 51D	180	34/C8,38/A6,E7
KE	A&M 51D	180, 1102	38/B6,E6,E7
KF	A&M 51D (REPL BY KH)	180, 1102	6A/D3,56A/D2
KG	A&M 51D (REPL BY KH)	180, 1102	6A/C5,E5
KH	(102)STD 51D	102 (17) 180,1102	APP FIG 47,6A/C4, 56A/D1,69A/F1, 69B/G3
KI	MD 51D (REPL BY KJ) STD 53D	180, 1115	1A/C5
KJ	STD 51D MD 58D (REPL BY KI)	180, 1115	1A/C5
KK	STD 51D		57A/D2,69B/F2,F3

* MEANING OF RATING
(102) - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED.
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD.
A&M - ADDITIONS AND MAINTENANACE ONLY.
MD - MANUFACTURE DISCONTINUED.

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

DRAWING ISSUE

53D	REM
54A	REM
66A	WM
67D	CL
68A	DLT
70A	CH
71D	RJF
73D	
74A	
75B	
76D	
77A	
78D	
79A	
80D	
81A	
82D	

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-A49

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-A49

OPTION INDEX

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
KL	MD 51D (REPL BY KK)		2B/G6
KM	MD 51D (REPL BY KK)		3B/A6
KN	STD 51D MD 58D (REPL BY CF)	183	APP FIG 57,19H3 19H4,19H5
KO	MD 51D (REPL BY KP)	184	APP FIG 14,67E9, 76B0,76B1,76B6, 76C6,76D6,76D7, 76E0,76E1,76H2, 76H4,84G1,85D6, 85D7,85E6,85E7
KP	(102)STD 51D	102(63), 184	76A0,76A1,76B6, 76B7,76C6,76C7, 76D6,76F0,76F1, 76H1,76H4
KQ	STD 51D	102(48), 102(63)	49A/A4,B2,C1,D4, G5
KR	STD 51D	102(48)	APP FIG R,49A/B2, B4,C1,F5
KS	MD 58D (REPL BY KT) STD 88D	1115	30D5,30E5,30E7, 30E8
KT	STD 58D MD 88D (REPL BY KS)	1115	30D7,30E5,30E7, 30E8,30F5
KU	(102)STD 53D	102(64)	97A7,G8
KV	MD 48D (REPL BY KW)	186	40A7
KW	STD 48D	186	APP FIG 13,40A/F2
KX	MD 51D (REPL BY JF)	1185	APP FIG 4,6,9,10, & 16 23B/G1,35A/E6, 38F0,38G0
KY	MD 51D (REPL BY JF)	1185	APP FIG 4
KZ	MD 51D (REPL BY JF)	1185	APP FIG 4

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION

* MEANING OF RATING

(102) STD - PART OF A FEATURE-PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD
A&M - ADDITIONS AND MAINTENANCE ONLY
MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

DRAWING ISSUE

63D	BEN [illegible] AND
64A	BEN [illegible] AND
67D	WE [illegible]
68A	WE [illegible]
74A	
76D	
78D	
79A	
82D	

ISSUE 97A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-A50

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

PRINTED IN U.S.A.

SD-25800-01-A50

OPTION INDEX

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
JA	MD 51D (REPL BY "JF")	1185	APP FIG. 4
JB	MD 51D (REPL BY "JF")	1185	APP FIG. 4
JC	MD 51D (REPL BY "JF")	1185	APP FIG. 4
JD	MD 51D (REPL BY "JF")	1185	APP FIG. 4
JE	MD 51D (REPL BY "JF")	1185	APP FIG.4
JF	STD 51D	1185	APP FIG 4,6,7,9,10, 11,12,13 & 16,25F3, 29B5,C5,C7,38G0
JG	MD 51D (REPL BY "JF")	1185	25A1,F3
JH	MD 51D (REPL BY "JF")	1185	APP FIG.7,26A/D6, 26B/D0, 27C3,27C4
JI	A&M 51D (REPL BY "JJ")	182(H)	APP FIG.7
JJ	(102)STD 51D	102(50)	APP FIG. 7
JK	MD 51D (REPL BY "JF")		38D0,38E0
JL	STD 51D MD 63D (REPL BY "NQ")	1125	1989
JM	MD 51D (REPL BY "JL")	1125	1986,1988
JN	MD 51D (REPL BY "JF")	1185	APP FIG.12
JO	STD 490	151,155,167, 177,187	APP FIG.7
JP	MD 51D (REPL BY "JQ")		APP FIG.95
JQ	STD 51D MD 58D (REPL BY FIG. 96)		APP FIG.95
JR	MD 51D (REPL BY "JS")		APP FIG.56

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
JS	STD 51D		APP FIG.56
JT	MD 51D (REPL BY "JU")		APP FIG.57
JU	STD 51D MD 58D (REPL BY "DX")	1116	APP FIG.57
JV	MD 51D (REPL BY "JW")		APP FIG.58
JW	STD 51D		APP FIG.58
JX	MD 51D (REPL BY "JY")	1128	APP FIG.97
JY	STD 51D MD 58D (REPL BY "IB")	1128	APP FIG. 97
JZ	MD 51D (REPL BY "IA")		APP FIG.62
IA	STD 51D MD 88D		APP FIG.62
IB	MD 51D (REPL BY "JF")		APP FIG.9
IC	MD. 53D (REPL BY "ID")	187	APP FIG.15
ID	STD 53D	187, 1179	APP FIG.15
IE	STD 53D	187	51A/C5,51A/D8
IF	MD 53D (REPL BY "IG")	187	2A/D1,E4,2B/E2,9C3, C6,D5,G1,G3,20B/C2, 25G3,26A/B6,26A/G0, 33A/F1,33B/C5,C6, 48A/A5,52B/B8,56B/E3, 65B/A4,A5,95A/C5,95B/E2
IG	STD 53D	187	2A/B5,E1,E4, 2B/E2, 9C3, C6,D3,D5,D6,G2,G3, 20B/C2,26H3,26A/A5, 26A/G0,33A/G1, 33B/C5-C7,33B/F5, 48A/A4,52B/C8, 56B/E3,65B/A4,A5 78B0,95A/C5,95B/E2
IH	MD 53D (REPL BY "II")	187	27F2
II	STD 53D	187	27F2
IJ	A&M 53D	1112	27H3
IK	A&M 51D (REPL BY "IL")	180, 1102	APP FIG. 48,12E7, 20A/C1
IL	STD 51D	180	APP FIG. 48,12E7

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
IM	A&M 53D	1112	APP FIG.86,34A/G4, 40F5
IN	STD 53D	1112	APP FIG.86 33B/D7
IO	A&M 53D	1102 1112	25H2, 33B/D7,36E5, 36E6
IP	(102)STD 53D A&M 63D	1125, 1145	36D5,36D6
IQ	A&M 51D (REPL BY "IR")	180, 1102	APP FIG.40
IR	STD 51D	180, 1102	APP FIG.40
IS	A&M 51D (REPL BY "IT")	180, 1102	APP FIG.41
IT	STD 51D	180, 1102	APP FIG.41
IU	STD 53D	1112	APP FIG.55
IV	A&M 53D	1112	APP FIG.55
IW	(102)STD 53D	102(56) 187,1115	30D7,30D8,30D9
IX	(102)STD 53D	102(66), 1112	33B/C6,33B/D6, 37A/E0,E2, 56A/F4,78G2,78H2
IY	STD 53D	187,1115, 1166	APP FIG.13
IZ	STD 53D MD 58D (REPL BY "CN")	187, 1115	APP FIG 58
GA	MD 51D (REPL BY "GE")		APP FIG.15
GB	STD 51D		APP FIG.15
GC	MD 51D		APP FIG.37
GD	A&M 51D	162	APP FIG.12 & 37
GE	STD 51D	162	APP FIG.12
GF	A&M 53D	191	27F5,27F6,27G4, 27G5
GG	A&M 53D	191	APP FIG.37 27F5,27G5
GH	MD 53D (REPL BY "GI")	192	4A/B7,5B/G3,6B/D5, 7A/G5,7C/H4,25G3, 27A3,57B/B7,80A5
GI	STD 53D	192	4A/B7,5B/G2 68/D4,7A/G5,7C/H5, 22A/F5,22B/G6, 23A/G0,24A/G7, G8,25G3,27A3, 57B/B7,80b4, 80B5

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
GJ	(102)STD 53D	102(66)	1A/F8,1A/G5, 20A/G1,33B/D6,E6,F6 67,57A/B3 78C1,78G2,78H5,95B/E3
GK	MD 53D (REPL BY "GI")	192	22A/F4
GL	MD 53D (REPL BY "GI")	192	22B/G6,F7,23A/H0, H2,24A/G7,F8
GM	STD 51D	184,185, 199,1126, 1143,1208	APP FIG.1
GN	MD 53D (REPL BY "GO")	194	68B/D3,E1,E2
GO	STD 53D	194	68B/D3,E1,E3, 69A/A5
GP	MD 53D (REPL BY "GQ")	195	48A/D3
GQ	STD 53D	195	48A/D3,D5
GR	MD 53D (REPL BY "ET")	195.	APP FIG. 94
GS	STD 53D	195,1115	APP FIG.49
GT	MD 49D (REPL BY "BZ")	197	57B/E3,60B/C2,D4
GU	A&M 53D	1111	33B/E6,33B/E8
GV	MD 53D (REPL BY "GW")	187	12C3,12D2
GW	STD 53D	187	12C2
GX	MD 54B (REPL BY "GY")	160	APP FIG.56
GY	STD 54B	160	APP FIG.56
GZ	MD 49D (REPL BY "FA") A&M 53D	1125 191	33A/G3,G4, 35A/G6-G9
FA	STD 49D A&M 63D (REPL BY "NQ")	197 1125, 1145 191	APP FIG. 7,33A/G3, 35A/G6
FB	MD 56D	198	22A/F7,22B/G7
FC	STD 56D	198	22A/F7,22B/G8
FD	(102) STD 56D STD 65D	102(68) 1126,1159, 1208	APP FIG. 9,42A/C6, 42B/H0
FE	MD 56D (REPL BY "F")	180, 1101, 1115	APP FIG. 3
FF	STD 56D	180,1101, 1115	APP FIG. 3
FG	STD 56D	1101	APP FIG. 4
FH	MD 56D (REPL BY "FI")	1101	13B/C3
FI	STD 56D	1101	1A/C4,13B/C8

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
FJ	(102) STD 56D	102(66), 1106	33A2
FK	MD 53D (REPL BY "FL")		74/D2,42B/E0, 65A/D4-D7,E4
FL	STD 53D MD 88D	163	74/D2,42B/E0, 65A/D4-D7,E4
FM	STD 53D MD 88D	169	APP FIG.92
FN	A&M 63D	1125,1145	34A/F4
FO	A&M 63D	1125,1145	35A/C6, 36D0,36D1,36E1, 36F0,36F1
FP	MD 53D (REPL BY "DP")	192,1115	8D/C4,E4,E5
FQ	MD 51D (REPL BY "FR")	134	APP FIG.14
FR	STD 51D	184, 1126,	APP FIG.14
FS	MD 53D (REPL BY "FT")	187, 1125,1185	APP FIG.10
FT	A&M 53D	187, 1125,1185	APP FIG.10
FU	MD 53D (REPL BY "FV")	184, 1126, 1166	APP FIG.58
FV	A&M 53D MD 58D (REPL BY CM)	187,1115	APP FIG. 58
FW	MD 56D (REPL BY "FX")	1106	8A/F4
FX	STD 56D	1106	APP FIG. 87
FY	MD 56D (REPL BY "FZ")	1106	APP FIG.87,83A3, 83D8,83H6
FZ	STD 56D	1106	APP FIG.87,83A8, 83C8,83D8,83H6

DRAWING ISSUE	
53D	AHD
54B	AHD
55A	AHD
56D	AHD
57A	AHD
58D	AHD
59A	AHD
60D	AHD
61A	AHD
62D	AHD
63D	AHD
64A	AHD
65D	AHD
66A	AHD
67D	
68A	
71C	
75D	
76A	
76B	
76D	
78D	
79A	
80D	
82D	

ISSUE 107A

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED

STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS AND MAINTENANCE ONLY

MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

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OPTION INDEX

APP OR WIRING	RATED ON ISSUE**	REFERENCE NOTES**	LOCATION
EA	(102)STD 53D STD 62D	187, 1149	41B/E3
EB	MD 53D (REPL BY "EC")	189, 1125	34A/D8
EC	STD 53D A&M 63D	189, 1125	APP. FIG. 11
ED	STD 53D	1107	APP FIG. 7,27E1
EE	MD 53D (REPL BY "EF")	1107	26A/C3
EF	STD 53D	1107	26A/E1
EG	STD 56D	1106	APP FIG.35
EH	(102)STD 56D	102(54), 1106,1111	26B/H8
EI	STD 56D	1106	APP FIG.36
EJ	(102)STD 56D	102(66), 1106,1112	26B/H7
EK	MD 56D (REPL BY "EL")	1109	48A/A7, 65B/D4 95A/G5
EL	STD 56D	1109	48A/A7, 65B/D4 95A/F4
EM	(102)STD 56D	102(54)	79D1
EN	MD 53D (REPL BY "EP")	1110	58/E2,11B5,51A/F7, 51B/C0,51B/C2,51B/C3 51B/C6,51B/G6,51B/H4
EO	MD 53D (REPL BY "ER")	1110	58/E2,11B5,51A/F7, 51B/A6,51B/B7, 51B/C0
EP	STD 53D	1110	58/E1,51A/G8,51B/A3, 51B/B2,51B/C5, 51B/G5
EQ	(102)STD 53D	102(69)	51B/A2,51B/A7, 51B/B7
ER	STD 53D	1110	11C6, 51A/F7,51B/A6, 51B/B7,51B/C0
ES	STD 58D	1110, 1115	APP FIG.94
ET	STD 53D MD 58D (REPL BY "ES")	195, 1110, 1115	APP FIG.94
EU	MD 53D (REPL BY "EV")	1110	APP FIG. 94
EV	STD 53D	1110	APP FIG. 94
EW	MD 53D (REPL BY "EX")	1110	74F1
EX	STD 53D	1110	74F1, 74G1

APP OR WIRING	RATED ON ISSUE**	REFERENCE NOTES**	LOCATION
EY	MD 51D (REPL BY "EZ")		APP FIG. 49, 81A1
EZ	STD 51D		APP FIG. 49
DA	MD 49D (REPL BY "DB")	174	34G4-G9
DB	(102)STD 49D MD 63D (REPL BY FIG.112)	174,1113, 1114, 1134, 1135	34G4-G9,34H2, 84H9
DC	MD 58D (REPL BY) FIG.96)	1114	84B7,84E7, 84F7,93B9
DD	(102)STD 58D MD 63D (REPL BY FIG.112)	102(70), 1114, 1134, 1135	84F0,34F1,84G0, 84G1,84H2,93B2
DE	STD 63D	1115,1138, 1255,1258	61F8
DF	MD 53D (REPL BY "DG")	192, 1115, 1131	APP FIG. 3, 8D/C4
DG	STD 53D	192, 1115, 1131	APP FIG. 3
DH	MD 53D (REPL BY "DP")	192, 1115, 1166	10A/C5.18B/D9.E9
DI	MD 58D (REPL BY "DJ") STD 88D	1115	APP FIG.9,18B/B4,31B8, 37A/E5.37B/F3,G1.H1, 45D9.54B/G6,57B/E5, 60A/B4
DJ	STD 58D MD 88D (REPL BY DI,DM,DK, AND ZNG)	1115	APP FIG. 9, 18B/B3,31B8.37A/E5 37B/F4 .39A/E3 42B/G9 ,43E3,43G6 43H6, 45D9, 54B/G5,57B/D5, 60A/B4,60A/D4,61C7, 75G7,75H6
DK	MD 58D (REPL BY "DJ") STD 88D	1115	APP FIG. 9,42B/F9 43E3
DL	MD 58D (REPL BY "DJ")	1115, 1225	APP FIG. 9,43G4, 43G6,43H6
DM	MD 58D (REPL BY "DJ") STD 88D	1115, 1138, 1255	39A/E3
DN	MD 58D (REPL BY "DE")	1115, 1258	61G8
DQ	(102)STD 58D MD 88D	102(72) 1221	APP FIG. 9,1A/C0. 8D/F3,8B/C0,18B/E9 28A/C1,37A/D3, 37B/H1,43A7,45G2, 51B/B5,54A/E5, 54B/G0,61C6,D7,D8, F8,62B5,C5,E5,G0, G5,67E8,E9F9,75H6. 8584,C3,D6,D7,E6, E7,87D0
DP	STD 53D	192, 1115, 1166	8D/D4,E4,E5 18B/D9,E9

APP OR WIRING	RATED ON ISSUE**	REFERENCE NOTES**	LOCATION
DQ	MD 49D (REPL BY "DS")	167	34B/A3
DR	MD 49D (REPL BY "DS")	167	34B/B3
DS	MD 58D (REPL BY "DT") STD 88D	1115	APP FIG. 15,51B/A5, 51B/B6
DT	STD 58D MD (REPL BY "DS") 88D	1115	APP FIG. 15,1A/C6,D7, 51B/A6
DU	MD 58D (REPL BY "DV") STD 88D	1115	48A/E5
DV	STD 56D MD 88D (REPL BY "DU")	1115	48A/D5
DW	MD 58D (REPL BY "DX")	1116	APP FIG. 57
DX	STD 58D	1116	APP FIG. 57
DY	STD 58D	1116	APP FIG. 20
DZ	(102) STD 58D	102(74)	APP FIG. 20, 19G2, G5, 67C7,68B/D5
CA	STD 58D	1117	APP FIG. 56
CB	MD 51D (REPL BY "CC")	184	APP FIG. 76
CC	STD 51D	184	APP FIG. 76
CD	STD 58D	1118	APP FIG. 7
CE	STD 58D	1118	96G8
CF	(102)STD 58D	102(74)	APP FIG. 57,19H4, 19H5
CG	STD 58D	1115	APP FIG. 9
CH	STD 49D	147,161	29F6
CI	(102)STD 49D	102(60)	14B/E4
CJ	(102)STD 49D	102(60)	14B/E4
CK	(102)STD 58D STD 88D	102(72) 1221	54B/G1
CL	STD 53D MD 80D (REPL BY "ZPY")	1191	APP FIG. 7
CM	A&M 58D	187,1115	APP FIG. 58
CN	STD 58D	187, 1115	APP FIG. 58
CO	STD 60D	1121,1123, 1140,1208	APP FIG. 25,8C/H0
CP	(102) STD 60D	102(75)	89A1,89C5,89D5 89E5, 89H5

APP OR WIRING	RATED ON ISSUE**	REFERENCE NOTES**	LOCATION
CQ	STD 60D	1122	12B1,20A/D9,20B/C4, 37B/D4,44B/E2,F4,E6, 48B/D8,48B/F6, 48C/D8,F7,G7, 50A/B2,C1,50B/C3
CR	SPL 60D MD 88D	1122	1260,20A/D9,20B/C4, 37B/D3,44B/E2,F4,E6 48C/D8,G7, 50A/B1,C1,50B/C2
CS	STD 60D	1122	APP FIG 103
CT	SPL 60D MD 88D	1122	APP FIG 103
CU	(102)STD 62D	102(77), 1208	
CV	MD 60D (REPL BY "CW")	1121	38/D1,60A/G5
CW	STD 60D	1121	60A/G5
CX	(102) STD 60D	102(74)	1A/G1,1B/D1
CY	MD 63D (REPL BY "NQ")	1125	APP FIG. 11
CZ	MD 62D (REPL BY "BA")	1123	10A/D3
BA	STD 62D	1123	10A/E3
BB	STD 60D	1126	1201,20A/D3
BC	SPL 60D MD 102B	1126	1200,12E0,20A/C4
BD	SPL 60D (102) STD 71D MD 102B	1126 102(93) 1257	40A/G2,G3,H2
BE	MD 62D (REPL BY "BF")	1127	78A1,78A2
BF	(102)STD 62D	102(54), 1127	64B9,64C9, 64D9, 78A1,78A2
BG	MD 58D (REPL BY "BH")	180	1A/C6,69B/F1
BH	STD 58D	180	69B/F1
BI	MD 58D	1115	87F4
BJ	MD 58D	1115	87F4
BK	STD 62D	184,1121, 1129,1131, 1153,1156, 1208	APP FIG. 25
BL	STD 58D	1128	APP FIG. 97
BM	(102)STD 82D	102(100)	78/D7
BN	(102)STD 82D	102(100)	78/D8

APP OR WIRING	RATED ON ISSUE**	REFERENCE NOTES**	LOCATION
BQ	(102)STD 49D MD 67D	102(57) 1160,1255	54A/A3
BP	(102)STD 49D STD 67D	102(57) 1160,1255	APP FIG 3, 12G1,54A/A3
BQ	MD 62D (REPL BY "BR")	1129	30D3,30E3
BR	STD 62D	1129	APP FIG. 50,30D3
BS	MD 62D (REPL BY "BU")	1130	49A/E3
BT	MD 62D (REPL BY "BU")	1130	65A/F4
BU	STD 62D	1130	49A/F4,49A/E3 65A/E4,F4,F5
BV	(102)STD 62D	102(81)	APP FIG. 13
BW	(102)STD 62D	102(81)	37A/D4,60A/B5
BX	STD 88D	1208	10B/B6
BY	(102)STD 62D	102(80)	37A/E4,60A/B5, 94A7,94B7,94F2
BZ	STD 89D	197	57B/E2,60B/B3
AA	MD 62D (REPL BY "AE")	1121	38/D4,33A/E5,38H1, 48B/C7,49B/C9, 48B/F5,48C/C7,G6, 54G7,54B/E5,64C9
AB	MD 62D (REPL BY "AE")	1121	38/E1
AC	MD 62D (REPL BY "AD")	1121	APP FIG. 101
AD	STD 62D	1121	APP FIG. 101, 89B5, 89C4, 89C5
AE	STD 62D	1121	38/E1,38G1, 38H2,48B/D6, 48B/D7,48B/E5, 48B/F5,48C/D7,E6, F5,54B/E5,64C9
AF	MD 62D (REPL BY "AG")	1132	38C4, 38D5, 78H6,79H7

** MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD
A&M - ADDITIONS AND MAINTENANCE ONLY
MD - MANUFACTURE DISCONTINUED
SPL - SPECIAL

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WHITHIN THAT NOTE

DRAWING ISSUE

56D	POI KYW ARW
57A	POI KYW ARW
58D	HC AJH AWD
59A	HC AJH AWD
60D	WM AJH AWD
61A	WM AJH AWD
62D	WM AJH AWD
63D	BEM AWD AWD
64A	BEM AWD AWD
66A	WM AJH AWD
67D	WM AJH AWD
68A	DLW
69D	EM
70A	EM
71D	RJF
72A	RJF
73D	
74A	
75B	
76D	
78D	
79A	
80D	
81A	
82D	
83A	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT ② SD-25800-01-A52

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-A52

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OPTION INDEX

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
AG	A&M 62D	166,1132	78H6,78H7,77H5
AH	MD 62D (REPL BY "AI")	1121,1132	378/E3
AI	STD 62D	1121,1132	37A/F6,37B/D4, 38D5,38E5,38G5
AJ	(102)STD 63D	102(36)	65B/B3,D2,E2,F3,F4
AK	(102)STD 63D	102(36)	65B/B3,D2,F3,F4
AL	(102)STD 63D	102(36)	APP FIG 49
AM	(102)STD 63D	102(34)	74F1
AN	(102)STD 63D	102(70), 1134	9382,9386,9388
	MD 88D	1120	
AO	STD 63D	1133	APP FIG 99
	MD 88D		
AP	MD 63D (REPL BY "AQ")	1135	APP FIG 76
	STD 88D	1221	
AQ	STD 63D	1135	APP FIG. 76
	MD 88D (REPL BY "AP")	1221	
AR	(102) STD 63D	102(72)	48B/F7, 93C0
	MD 88D	1221	
AS	(102) STD 58D	1136	22B/B8,29E8
	STD 62D		
AT	(102) STD 58D	1136	22B/B8,C8,29E7,F7
	A&M 62D (REPL BY "AS")		
AU	(102) STD 58D	1136	24B/B2
	STD 62D		
AV	A&M 58D (REPL BY "AU")	1136	24B/B3, 67E9
AW	(102) STD 58D	102(48), 1136	67D9
AX	A&M 62D	1127	48C/C5
AY	MD 53D (REPL BY "AZ")	1137	57A/E6
AZ	STD 53D	1137	57A/D6

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
ZZA	MD 63D (REPL BY "ZZB")		APP FIG 4
	102(STD) 71D	102(93), 1166	
	MD 102B	1166,1257	
ZZB	SPL 63D	1126,1143, 1166	APP FIG. 4
ZZC	SPL 63D	1126,1143	APP FIG. 4
ZZD	SPL 63D	1126,1143	15B/C1, E1
ZZE	MD 63D (REPL BY "ZZD")		15B/D1
ZZF	MD 96B (REPL BY ZZG)	1240	APP FIG. 9
ZZG	STD 96B	1240	APP FIG.9
ZZH	A&M 96B	1195	APP FIG. 3
ZZI	(102)STD 65D	102(17)	54B/D7
ZZJ	MD 67D (REPL BY "ZZK")	1155,1166, 1168, 1255	58E2
ZZK	STD 67D	1155,1164 1166,1168 1171,1179 1180,1193 1210,1255	APP FIG 1
ZZL	MD 58D (REPL BY "ZZM")	153,1132, 1192	APP FIG 3
ZZM	STD 58D	110,141, 153,192, 1132,1192	APP FIG 3
ZZN	MD 63D (REPL BY "ZZO")	1126	58C7
ZZO	SPL 63D	1126	20A/C4,40B/C1, 56A/E3
ZZP	(102)STD 63D	102(85)	61C6
	STD 96B	1243	
ZZQ	STD 62D	187,1149	41B/D0
ZZR	MD 65D	1150	APP FIG 9
ZZS	STD 65D	1150	APP FIG 9
ZZT	MD 65D (REPL BY "ZZU")	1150	41C/F2
ZZU	STD 65D	1150	37A/F5,41C/F2
ZZV	(102)STD 65D		APP FIG. 17,2A/D1, 2B/D2,7A/A3,8A/F3, 40B/A5,D4,42B/F0, 44A/F7,48A/A5, 50B/F3,51E/D6, 57B/E1,58C0,65B/A7, 95A/E5
	STD 84D	1208	

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
ZZW	(102)STD 65D		APP FIG.17,1A/H1, 1B/E1,2A/D1,2B/C1, 4B/B2,5A/H4,7A/A2, 11B/C5,20B/E7, 40B/D3,42A/C8,E7, 44A/F7,44B/B9, 48A/B4,A6,50B/F2, 51B/D5,58C0,C1, 53B/B1,65B6,65B/A6, A7,95A/E5,95B/F0
	MD 84D	1208	
ZZX	(102)STD 63D	102(82)	APP FIG.3,15, 92D5,92E6,92F3
ZZY	(102)STD 65D		96D7,F7,H6
	MD 84D	1208	
ZZZ	STD 63D	184,1153, 1166	APP FIG 14
ZYA	STD 63D	1153	APP FIG 76
ZYB	(102)STD 65D	102(63), 1153	76B8,76E9,76F9
ZYC	MD 63D (REPL BY "ZYB")	1153	76B8,76E9
ZYD	MD 63D (REPL BY "ZYE")	1153,1161, 1166	APP FIG 15, 53A/E2
ZYE	STD 63D	1153,1161, 1166	53A/C2,D2,F2
ZYF	MD 63D	1126	APP FIG 106,23A/G7, 24A/G2,2581
ZYG	(102)STD 65D	102(92), 1235	7A/A4,20B/F1, 31E2,40B/C5, 56A/D4
ZYH	MD 65D (REPL BY "ZYI")	1154, 1235	APP FIG 7
ZYI	STD 65D	1154, 1172, 1185, 1235	APP FIG 7
ZYJ	STD 51D		38B0-3
ZYK	MD 51D (REPL BY "ZYL")	190	APP FIG 15, 51B/D7
ZYL	A&M 51D	190	51B/D9,51B/F9
ZYM	(102)STD 49D	102(57)	APP FIG M
ZYN	(102)STD 49D	102(57)	APP FIG M
ZYO	MD 62D (REPL BY "ZYP")	1131	20A/F2
ZYP	STD 62D	1131	20A/F2
ZYQ	MD 63D (REPL BY "ZYR")	1161	APP FIG 3, 8D/E2,G2,12G4,54B/F1
ZYR	STD 63D	1161	8D/G2,12G5, 54B/D1

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
ZYS	(102)STD 67D	102(86)	APP FIG 17
	MD 76D (REPL BY ZSJ)	1156	
ZYT	(102)STD 67D	102(86)	41A/B2,57B/G6, 73A6
	MD 88D	1218	
ZYU	(102)STD 49D	102(57)	12G1
	MD 67D	1160,1255	
ZYV	(102)STD 67D	102(64)	APP FIG. 1,7A/A2,10A/C3, C4,53A/B7,97B3,E3, G3
ZYW	(102)STD 67D	102(64)	7A/A1,10A/C3
ZYX	A&M 84D	1208	APP FIG.1,120D3
ZYY	A&M 63D	1112,1125	APP FIG. 86,36C3, C4,C5,D5,D7,D8
ZYZ	A&M 63D	1125	33A/G1,33B/B3, 33B/C3
ZXA	A&M 63D	1125	33A/E1
ZXB	A&M 63D	1125,1247	33A/G1
ZXC	A&M 63D	1125	33A/G0
ZXD	A&M 63D	1125	36C2,36D2
ZXE	STD 63D	1125	APP FIG 16
ZXF	(102)STD 67D	102(18)	1A/B1,5A/E1,G2
ZXG	(102)STD 67D	102(18)	APP FIG 20,1A/H1,1B/F1 5A/E1,5A/F2,7A/E1,19F7 22B/C3,56A/D4,57A/C2 67E7,98H2,100F5,10280
ZXH	(102)STD 67D	102(18)	APP FIG 20,7A/E1, 19F7,22B/C3,57A/D8, 67E7
ZXI	MD 58D	153	54A/D3
ZXJ	STD 58D	153	54A/D3
ZXK	MD 67D (REPL BY ZXL)	1158, 1166	58/F4
	A&M 98B	1192	
ZXL	STD 67D	1158, 1166	APP FIG. 39
	(MD 80D (REPL BY FIG. 154)		
	A&M 98B	1192	
ZXM	MD 67D (REPL BY ZXN)	1158	41B/C5
ZXN	STD 67D	1158	41B/C5
ZXO	(102)STD 63D	102(83)	APP FIG. 25,8A/G1
	STD 67D	1157,1164 1166,1177 1178,1194	
ZXP	MD 67D	1158	94D1
ZXQ	(102) STD 67D	102 (90)	94C0,C1
	MD 91A (AC)	1226, 1232	
ZXR	A&M 63D	1125	35A/B1,35A/C7
ZXS	A&M 63D	1112,1125	36C4
ZXT	STD 63D	1127	12C4,73A6,73A7
ZXU	A&M 63D	1127	APP FIG 55
ZXV	MD 63D (REPL BY ZXX)	1127, 1166	26A/H0

APP OR WIRING	RATED ON ISSUE *	REFERENCE NOTES **	LOCATION
ZXW	MD 63D (REPL BY ZXX)	1127, 1166	27A0
ZXX	STD 63D	1127,1166	24B/G4,26A/H0,27A0
ZXY	A&M 63D	1127	APP FIG. 55
ZXZ	(102)STD 69D	102(64) 1162	APP FIG 77 40B/F0,97D5
ZWA	(102) STD 53D	102(105)	54A/F7
	MD 53D	1163	
ZWB	(102) STD 94D	102(109)	APP FIG.1
	STD 53D	1163	
ZWC	(102) STD 94D	102(109)	APP FIG.1
ZWD	(102) STD 67D	102(91)	54A/E6
ZWE	MD 69D (REPL BY ZWF)	1165,1168, 1255	37A/B5
ZWF	STD 69D	1165,1168 1255	37A/B5,56A/E8
ZWG	STD 67D	1125	APP FIG.11
ZWH	(102) STD 65D	102(92), 1235	7A/A4,20A/C2,5A/D4 20B/F0,26A/F7
ZWI	MD 69D	1126	APP FIG.106
ZWJ	MD 69D	1126	APP FIG.118
ZWK	MD 69D	1126	58C7,58C8,58D7, 58D3
ZWL	MD 69D	1126	58D7
ZWM	(102) STD 71D	102(93)	7A/B4,9G2,12C1,B4, 20A/G6,23A/G0,G2,25F3, 32A6,B6,B7,34B/C4, 38H1,39A/F5,51C/G2
	STD 102B	1257	52A/C3-F3,52B/G4,54A/E3, 54B/D5,57B/E3,66C9
ZWN	(102) STD 71D	102(93)	7A/A4,8C/B1,9G1,F2, 12B4,C1,20A/G6, 23A/G0,G2,25G3, 26A/F6,28B/L8,29C1, 32A5,A6,B4,B6,B7 34B/C4,39A/C4,40A/G2, 44A/A2,50A,D3,H4, 50B/B7,D3,52A/C3-F3, 54A/B6,57B/E4,95B/D1, G1,10595,D5,10GE3,F3, F7,107E5,F5,1078/B2, 10806,F2,H4,10944, 11044,1184,113G8,H8
	MD 102B	1257	
ZWO	(102) STD 71D	102(93)	113G0
	MD 102B	1257	
ZWP	MD 71D(REPL BY ZWQ)	1166	APP FIG.6
ZWQ	STD 71D	1166,1179 1185	APP FIG. 6
ZWR	MD 71D (REPL BY ZWS)	1166	APP FIG.78
ZWS	STD 71D	1166,1179	APP FIG.78
ZWT	(102) STD 71D	102(75)	89C4
ZWU	(102) STD 71D	102(75)	APP FIG.101
	MD 102B	1257	
ZWV	(102) STD 71D	102(93), 1228	5A/D7,58/F4, 5C/B1,B4,B6,B9
	A&M 98B	1192	
ZWW	(102) STD 71D	102(93), 1228	58/E4,5C/B1,B4, B6,B9,H0
	A&M 98B	1192	
ZWX	(102) STD 71D	102(93)	APP FIG. 17
	STD 102B	1257	
ZWY	(102) STD 71D	102 (93), 1228	8C/B0
	STD 102B	1257	
ZWZ	A&M 63D	1145,1167	3889,E9

* MEANING OF RATING

(102)STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED

STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS AND MAINTENANCE ONLY

MD - MANUFACTURE DISCONTINUED

SPL - SPECIAL

** NUMBERS IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE

DRAWING ISSUE

51A	A1A, A2A, E6A
52D	WLW, E2J, Ane
63D	RSW, AMP, AMP
64A	RSW, AMP, AMP
65D	WLW, IAL, AMP
66A	WLW, IAL, AMP
67D	WLW
68A	WLW
69D	CH
70A	CH
71D	RUF
72A	RUF
73D	
74A	
75D	
76D	
77A	
78D	
79A	
80D	
81A	
82D	
83A	

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2)

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HIGGINS 4465 K2

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APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
ZVA	STD 63D	1167	3B89,D9
ZVB	A&M 73D	1168, 1255	4B/F0,8D/G2,37B/H3, 44B/D1,D5,53B/E3,E4, 54A/A6,61G8,95A/H3, 95B/B0,115C1-C7,F0, G3
ZVC	STD 73D	1168, 1255	8D/G2,20A/D2,26A/G4, 31D1,37B/G3,48C/D6, G3,G4,54A/B2,57A/F2, F4,G2,G4, 57B/A2
ZVD	STD 73D	1158,1227	57A/F2,F4
	MD 88D (REPL BY NH)	1216	
	STD 99A	1255,1258	
ZVE	MD 73D (REPL BY ZVF)	1168, 1216, 1255, 1258	54A/E1,E2
ZVF	STD 73D	1168, 1216, 1255,1258	54A/E1,E2
ZVG	STD 67D	1157, 1166,1168, 1172,1179, 1180,1216, 1255,1258	APP FIG 1
ZVH	MD 67D (REPL BY ZVI)	1157	47D8,E8
ZVI	STD 67D	1157	47F9
ZVJ	A&M 73D	1169	APP FIG 58
ZVK	(102) STD 73D	102 (94)	APP FIG 87,78F4
ZVL	MD 73D (REPL BY ZVM)	1170, 1185	APP FIG 4
ZVM	STD 73D	1170, 1185	APP FIG 4
ZVN	(102) STD 73D	102 (96)	APP FIG 4
ZVO	(102) STD 73D	102 (95)	13B/C9,18A/B0,F0
ZVP	MD 74A(AC) (REPL BY JF)	1125, 1185	APP FIG 11,1906,D7
ZVQ	MD 76D (REPL BY FIG.138)	1171	APP FIG 2,
ZVR	MD 76D (REPL BY FIG.138)	1171	APP FIG 3 8D/H2
ZVS	MD 76D (REPL BY FIG.138)	1171	APP FIG 2

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
ZVT	MD 76D (REPL BY FIG.138)	1171	APP FIG 22
ZVU	MD 76D (REPL BY FIG.138)	1171	APP FIG F
ZVV	MD 76D (REPL BY FIG.138)	1171	APP FIG B
ZVW	MD 76D (REPL BY FIG.138)	1171	APP FIG 56
ZVX	MD 76D (REPL BY FIG.138)	1171	APP FIG 41
ZVY	(102)STD 82D	102(100)	7C/B8
ZVZ	(102)STD 82D	102(100)	7C/A8,B5
ZUA	STD 71D	1166,1180, 1192,1193, 1210,1250	APP FIG 1
ZUB	STD 76D	1171,1179	18/A7,4A/B8
ZUC	MD 71D (REPL BY ZUD)	1166, 1210, 1259	9F1,20A/E2
ZUD	STD 71D	1166, 1210, 1259	9G1,20A/E2,F2
ZUE	STD 71D	1166	APP FIG 1
ZUF	MD 73D (REPL BY ZUH)	1169, 1239	3A/D3
ZUG	MD 73D (REPL BY ZUH)	1169	2A/C5,D5
ZUH	STD 73D	1169	2A/C6,E5,3A/B2 27E7,F8
ZUI	MD 73D (REPL BY ZUJ)	1169	APP FIG 86

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
ZUJ	STD 73D	1169	APP FIG 86
ZUK	(102) STD 73D	102 (94),	APP FIG 1,87,95B/G1
ZUL	MD 63D (REPL BY ZUM)	1125	1984-04,C5
ZUM	A&M 63D	1125	1984-E4
ZUN	MD 63D (REPL BY ZUO)	1125	1905,E3
ZUO	STD 63D	1125	19E4
ZUP	A&M 63D	1125	1988
ZUQ	(102) STD 73D	102 (95)	7A/G3
ZUR	(102) STD 73D	102 (95)	7A/G3,95B/C5
ZUS	MD 75B (REPL BY ZUT)	1208	APP FIG 120
ZUT	STD 75B		APP FIG 120
	A&M 84D	1208	
ZUU	STD 75B		APP FIG 120
	A&M 84D	1208	
ZUV	MD 75B (REPL BY ZUW)	1208	2B/C1,42A/C7
ZUW	STD 75B		2B/C1,8B/B4,41A/D2, 42A/D8
	A&M 84D	1208	
ZUX	A&M 76D	1175	7C/D0,F2
ZUY	MD 76D	1175	7C/F2
ZUZ	MD 76D	1175	7C/E7
ZTA	STD 76D	1175	7C/D7

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
ZTB	(102) STD 73D	102 (51), 1177	48C/A8,B8
ZTC	(102) STD 73D	102 (51), 1177	APP FIG 49
ZTD	STD 73D	1169	APP FIG 58 8A/H4
ZTE	STD 73D	1178	10A/D9
ZTF	STD 71D	1166,1178, 1179,1202	APP FIG 1
ZTG	STD 73D	1178	APP FIG 1
ZTH	(102)STD 76D	102(97)	1B/B4,2A/E1, 3B/E4, 25C7,C8, 37B/E3, 44B/D2-D6,48A/A4,B8, C8,50A/G2,51A/D3, 52B/D6,53A/C0,54A/E3, 54B/H5,64D9,E9
ZTI	(102)STD 76D	102(97)	1B/B5,2A/A3,E1, 3B/F4,22A/H6,22B/G7, 37B/E4,44B/D2,D4,D6, 49A/A3,B8,C8,50A/G2, 50B/G3,51A/D2,E2, 52B/D6,53A/C0,54B/H5, 64B7,D8,D9,116C0, 117G0,H8,H9
ZTJ	MD 96B (REPL BY ZTP)	1240	APP FIG. 9
ZTK	(102)STD 67D		APP FIG. 1
	STD 76D	1179,1204, 1234	
ZTL	STD 84D	1206	APP FIG. 16
ZTM	MD 71D	1166,1185	APP FIG. 6
ZTN	MD 76D (REPL BY ZTO)	1180	8A/H4,37B/D7, 52B/E4,63A/D6
ZTO	STD 76D	1177, 1180	8A/H4,37B/C7,D7, 41A/C2,F2,52B/A4,C4, D4,E4,E5,63A/A4,F4, G4,116C1,117H8
ZTP	STD 96B	1240	APP FIG. 9
ZTQ	MD 96B (REPL BY ZTR)	1240	41C/D0
ZTR	(102) STD 96B	102 (24) 1240	41C/D0
ZTS	(102)STD 67D	102(18)	56A/E4 56B/C1
ZTT	(102)STD 67D	102(18)	56A/E4, 56B/E1
ZTU	MD 63D	1125	1985-E5
ZTV	(102)STD 67D	102(18)	57A/B4,57B/F6 9A4,20A/F0
ZTW	(102)STD 67D	102(18)	APP FIG 127
ZTX	MD 76D (REPL BY ZTY)	1181	APP FIG 107
ZTY	STD 76D	1181	APP FIG 107
ZTZ	STD 76D	1181	APP FIG 60

APP OR WIRING	RATED ON ISSUE*	REFERENCE NOTES**	LOCATION
ZSA	STD 76D	1181	11H1,34B/B4
ZSB	STD 76D	1181	APP FIG 107,11A/F0, 33B/H3
ZSC	STD 78D	1183	APP FIG 134
ZSD	STD 78D	1183	APP FIG 135
	MD 102B	1257	
ZSE	(102) STD 78D	102 (66)	33B/G7,G7,35B/H5, 79H6,107C5
ZSF	(102) STD 78D	102 (66)	33B/D7
ZSG	(102) STD 78D	102 (66)	33B/G7
ZSH	A&M 78D	1183	36C4
ZSI	STD 63D	1125 1192	APP FIG. B
ZSJ	STD 76D	1156,1184	APP FIG. 17
	MD 88D (REPL BY ZNF)	1156	
ZSK	MD 76D (REPL BY ZSL)	1184	2780,28B/B7
ZSL	STD 76D	1184	4B/H1,2780,28B/A7
ZSM	MD 76D (REPL BY ZSN)	1184	3087
ZSN	STD 76D	1184	3086
ZSO	(102) STD 78D	102 (96)	APP FIG 4
ZSP	(102) STD 78D	102 (96)	15B/B3,G2
ZSQ	(102) STD 78D	102 (96)	15B/D2
ZSR	(102) STD 78D	102 (96)	15B/C4
ZSS	MD 76D (REPL BY ZQH)	1179	51B/A8,52B/C3,D2 E2,
ZST	MD 78D (REPL BY ZSU)	1187	APP FIG 105,8B/F1
ZSU	STD 78D	102 (77), 1187	8B/F1,8C/A2,F6, 90A2,C1,G2
ZSV	MD 78D (REPL BY ZSW)	1187	APP FIG 105
ZSW	STD 78D	1187	APP FIG 105
ZSX	STD 78D	1187	8C/F3
ZSY	MD 78D	1187	90D7
ZSZ	MD 78D (REPL BY ZHA)	1189	39A/F4

*MEANING OF RATING

(102) STD - PART OF A FEATURE - PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED.
STD --- PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD.
A&M --- ADDITIONS AND MAINTENANCE ONLY
MD ---- MANUFACTURE DISCONTINUED

**NUMBERS IN () FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE

DRAWING ISSUE
73D
74A
75B
76D
77A
78D
79A
80D
81A
82D
83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-A54

BELL TELEPHONE LABORATORIES INCORPORATED

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APP OR WRG	RATED ON ISSUE	REF NOTES **	LOCATION
ZRA	STD 78D	1189	APP FIG. 1,34BF4, 39A/F4
ZRB	STD 78D	1189	APP FIG 1
ZRC	A&M 78D	1190, 1191	78/E6,F4,F5,F6 G4,G5,G6
ZRD	A&M 78D	1190, 1191	78/F3
ZRE	MD 78D	1190	78/E5
ZRF	A&M 78D	1190	78/D5
ZRG	(102)STD 78D	1190	78/H5
ZRH	STD 78D	1190	78/G5
ZRI	STD 76D	1184	APP FIG 1
ZRJ	MD 78D (REPL BY ZRK)	1183	APP FIG 134
ZRK	STD 78D	1183	APP FIG 134
ZRL	MD 80D	1191	78/E5
ZRM	A&M 80D	1191	78/E5
ZRN	A&M 80D	1191	78/F6,G5
ZRO	A&M 80D	1191	78/E6,F6,G6
ZRP	MD 80D (REPL BY ZRQ)	1191	78/H5
ZRQ	STD 80D	1191	78/H5
ZRR	(102) STD 80D	102(101)	58B1,72A6,B9,C8, D2,E9,F9
ZRS	(102)STD 80D	102(101)	72C5,C8,D0,D5,E6, E8
ZRT	MD 80D (REPL BY FIG.154)	1192	APP FIG 135
	A&M 98B		
ZRU	MD 80D (REPL BY ZRW)	1192	5A/C1,E7,5B/C1, C2,D2,E3,F1,G1, H1,H2,H4
ZRV	MD 80D (REPL BY ZRW)	1192	5A/D7
ZRW	(102)STD 80D	1192	5A/A0,C1,C2,C5, C7,D7,E7,6B/C7
	STD 90D	1228	

* MEANING OF RATING
(102)STD - PART OF FEATURE PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS AND MAINTENANCE ONLY

MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZRX	(102) STD 96B	102 (66)	1A/C0
ZRY	MD 80D (REPL BY ZRZ)	1192, 1195	6B/C8
ZRZ	(102)STD 80D	1192	5A/A2,B8, 6B/C9
	STD 90D	1228	
ZQA	STD 80D	1192	APP FIG 138
ZQB	(102) STD 78D	102 (99)	10A/B3
ZQC	(102) STD 78D	102 (99)	10A/C3,11B/C6,F9
ZQD	STD 78D	1193	11B/F9
ZQE	STD 89A (AC)	1186	42B/H2
ZQF	A&M 89A (AC)	1186	42B/H2
ZQG	SPL 71D	1126, 1166	40A/G2,H2
	MD 102B	1257	
ZQH	STD 76D	1179	51B/A8; 52B/C2, C3,D1, 53A/D0
ZQI	(102)STD 80D	102 (102)	39B/E0,39C/C0
ZQJ	(102)STD 80D	102 (102)	39B/E0,E1
ZQK	STD 80D	1195	1B/A6,B7,6A/F8, 6B/A9,B8,B9,55B3
ZQL	STD 80D	1195	95B/G1,G2
ZQM	STD 80D	1195	95B/B7
ZQN	STD 80D	1195, 1196	APP FIG 3
ZQO	STD 80D	1197	APP FIG. 129
ZQP	MD 80D (REPL BY ZQQ)	1198	55B8
ZQQ	STD 80D	1198	55B8
ZQR	STD 76D	1157, 1179, 1198, 1200, 1201, 1208, 1210, 1231	APP FIG. 1
ZQS	A&M 73D	1168, 1255	57A/G2
ZQT	A&M 80D	1181	APP FIG.107,11B/D1, 53A/D0
ZQU	MD 80D (REPL BY ZQV)	1199	8C/B3,54B/F1, 56B/D1,58A0, 95B/H4
ZQV	STD 80D	1199	APP FIG B,1
ZQW	STD 80D	1200	APP FIG 20
	(102) STD 90D	102 (107)	
ZQX	(102) STD 80D	102(17), 1200	8B/C6,D6
ZQY	MD 80D (REPL BY ZQQ)	1197	APP FIG 129
ZQZ	A&M 80D	1202	20B/E2,11GF8

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZPA	MD 80D (REPL BY ZPB)	1201	APP FIG 90,55G1,H8
ZPB	STD 80D	1201	APP FIG 90,55G3,H0
ZPC	MD 80D (REPL BY ZPD)	1197	8D/E2
ZPD	STD 80D	1197	8D/E2
ZPE	STD 86D	1208	11B/C4,20B/C5,J0, 23B/G7,24A/H0, 24B/F6,2544,F4, F6,H0,26A/E5, 50B/B2
ZPF	A&M 86D	1208	20B/C1,E7,23B/F8, 24B/D7,F7,G2,25E6, F6,41A/B5
ZPG	A&M 63D	1140	APP FIG. 7
ZPH	(102) STD 82D	102 (93)	20A/F1,20B/C7, 23B/G0,24B/E1, 50B/D0
	STD 102B	1257	
ZPI	(102) STD 82D	102 (93)	APP FIG. 134,135
	MD 102B	1257	
ZPJ	(102) STD 82D	102 (93)	APP FIG. 134,135
	MD 102B	1257	
ZPK	(102) STD 82D	102 (93)	50A/C6,105H0, 107B/E2,E3
	MD 102B	1257	
ZPL	(102) STD 82D	102 (93)	26A/G6,39A/E5, 95B/D1
	MD 102B	1257	
ZPM	(102)STD 71D	102 (93)	APP FIG. 11
	MD 102B	1257	
ZPN	(102) STD 53D	102 (105)	54B/E7
ZPO	STD 76D	153, 1110, 1166, 1180, 1192, 1193, 1210, 1250	74D4
ZPP	(102) STD 97A	102 (48)	49B/B2,C2
ZPQ	(102) STD 67D	102 (18)	20A/G0
ZPR	(102)STD 67D	102 (18)(66)	20A/G0,
ZPS	(102)STD 67D	102(49)	69B/F2,G2
ZPT	(102)STD 67D	102(49)	APP FIG. 47, 69B/E2,F2,F3
ZPU	(102)STD 78D	102(66)	79H6
ZPV	(102)STD 67D	102(49)	69B/E3
ZPW	MD 80D	1195	1B/B6,3A/C1
ZPX	STD 80D	1195	APP FIG. 3,3A/C1
ZPY	STD 80D	1115, 1120, 1127, 1166, 1191	APP FIG. 7
ZPZ	(102)STD 86D	102 (103)	8A/E1,E2,E7, 10B/H6,40B/B7, 41A/D2,42B/E4, 51B/C6,H6

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
Z0A	(102)STD 86D	102 (103)	APP FIG. 7,8A/F0, 26A/F6,41A/D2, 42B/C4,D3,51C/B6,G2
Z0B	MD 87A (AC) (REPL BY Z0C)	1131	29C6,G6
Z0C	STD 87A (AC)	1131	29C7,G7
Z0D	(102)STD 67D	102 (18)	9A4
Z0E	MD 89A(AC) (REPL BY FIG.164)	1127	APP FIG. 82
Z0F	STD 96B	102 (107), 1200	APP FIG. 20
Z0G	(102)STD 78D	102 (93)	32B5
	MD 102B	1257	
Z0H	(102) STD 78D	102 (93)	32A6,B5
	MD 102B	1257	
Z0I	(102) STD 56D	102 (20)	5B/D7
	MD 80D (REPL BY FIG.154)	1192, 1260	
	A&M 98B		
Z0J	(102) STD 56D	102 (20)	5C/C8,H7
	MD 80D (REPL BY FIG.154)	1192, 1260	
	A&M 98B		
Z0K	(102) STD 97A	102 (48)	APP FIG. R,49A/A4, B1,D1,D4,49B/F2
Z0L	MD 97A (REPL BY Z0M)	1244	APP FIG. 44
Z0M	STD 97A	1244	APP FIG 44
Z0N	A&M 86D	1102	69B/F5
Z0O	STD 96B	1245	97B3
Z0P	MD 53D	1137	57A/E6
Z0Q	STD 53D	1137	57A/E6
Z0R	MD 88D	1213	APP FIG 13,40A/B6, E6
Z0S	MD 86D	1208	96D5
Z0T	STD 80D	1200	APP FIG 2,5A/D4, 88/E7
Z0U	STD 86D	1208	65B/C5,D5
Z0V	A&M 86D	1208	65B/C5,D5
Z0W	STD 98B	1253	APP FIG. B,59A/G0
Z0X	MD 88D	1168, 1216, 1255	57A/G1,H1
Z0Y	STD 88D	1168, 1216, 1255	57A/G1
Z0Z	STD 88D	167, 177, 1138, 1168, 1255	APP FIG. 13, 18B/A1,54A/C3

APP OR WRG	RATES ON ISSUE*	REF NOTES **	LOCATION
ZNA	(102) STD 65D	102 (87)	5B/E1
	MD 80D (REPL BY ZRW)	1192, 1217	
ZNB	(102) STD 65D	102 (87)	5B/F1
	MD 80D (REPL BY ZRW)	1217	
ZNC	MD 86D (REPL BY ZND)	1166, 1210	APP FIG 134
ZND	STD 86D	1166, 1210	APP FIG 134
ZNE	(102) STD 53D	102 (105)	54B/F7
ZNF	STD 88D	1184	FIG 17
ZNG	STD 88D	1192, 1225	43H6
ZNH	(102) STD 90D	102 (106), 1236, 1248	5D/B6,G6
	STD 98B	1192	
ZNI	(102) STD 90D	102 (106), 1236	5D/B6,G6
	STD 98B	1192	
ZNJ	STD 106B	1258	18B/E3
ZNK	STD 67D	102 (80), 1158	26A/D4,94C1
ZNL	STD 84D	1208	42B/F0
ZNM	MD 84D (REPL BY FIG.155)	1208	42A/C8
ZNN	MD 84D		APP FIG. 27
ZNO	(102) STD 67D	102 (38)	98G2,10B90
	MD 90D	1228	
ZNP	(102) STD 53D	102 (38)	APP FIG. 3, 5B/C8,8D/E0, 69A/D1
	MD 90D	1228	
ZNQ	(102) STD 53D	102 (38)	2A/H2
	MD 90D	1228	
ZNR	MD 91A (AC)(REPL BY ZNS)	1229	APP FIG. 148
ZNS	STD 91A (AC)	1229	APP FIG. 148
ZNT	MD 91A (AC)(REPL BY ZNU)	1229	54B/D3
ZNU	STD 91A (AC)	1229	54B/D3
ZNV	(102) STD 90D	102 (107)	4B/C7
ZNW	STD 90D	1184	28B/D9
ZNX	(102) STD 90D	102 (107)	APP FIG. 3
ZNY	(102) STD 90D	102 (107), 1200	APP FIG. 20
	A&M 98B	1248	
ZNZ	MD 90D (REPL BY ZMA)	1230	APP FIG. 114

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZMA	STD 90D	1230	APP FIG. 114
ZMB	(102) STD 90D	102 (107)	4B/D7,E6
ZMC	(102) STD 63D	102 (83)	40A/G9
ZMD	(102) STD 63D	102 (83)	40A/G9
ZME	STD 86D	1256	51C/G2
ZMF	(102) STD 92D	102(48), 1234	53C/F5
ZMG	STD 93A (AC)	1192	APP FIG. 154, 5D1
ZMH	MD 90D	1236	5C/D4,G5
	A&M 98B	1192	
ZMI	A&M 90D	1236 ISS 98B 1192	5C/D4,G4
ZMJ	(102) STD 102B	102 (114)	54A/D3
ZMK	(102) STD 88D	102(51) 1224	44B/D2,D4,D6
ZML	(102) STD 88D	102(51) 1224	44B/E2,E4,E6
ZMM	STD 53D	1209	8C/B0,B1
ZMN	A&M 97A (AC)	1244	APP FIG. 40
ZMO	STD 97A (AC)	1244	APP FIG. 40
ZMP	MD 88D	1221	87E4
ZMQ	MD 88D (REPL BY ZMR)	1221	APP FIG 49
ZMR	(102) STD 88D	102 (51)	37A/D8
ZMS	(102) STD 88D	102 (51)	37A/E3
ZMT	(102) STD 88D	102 (51)	37A/D3
ZMU	(102) STD 94D	102, 113	57A/A4
ZMV	(102) STD 94D	102 (107) 1248	57A/B4 67E3,68B/C5
ZMW	A&M 95A	1239	APP FIG.11
ZMX	STD 95A	1239	54A/C2
ZLA	STD 95A	1241	42A/A7,95A/G3
ZLB	MD 95A	1241	42A/A7
ZLC	STD 97A (AC)	1242	APP FIG.8, APP FIG.F
ZLD	STD 97A (AC)	102 (87)	25F4
ZLE	STD 97A (AC)	102 (87)	25A4,F4
ZLF	A&M 97A (AC)	1242	APP FIG.9,25C1, D2,D3,E0,68B/F5
ZLG	A&M 86D	1208	APP FIG.120 96G8
ZLH	MD 86D (REPL BY ZLI)	1200 (N)	10A/D0,31E6

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZLI	A&M 86D	1208 (N)	10A/D0
ZLJ	(102) STD 96B	102 (110)	57B/A0
ZLK	(102) STD 96B	102 (111)	11B/D4,13A/H5, 15B/B4,31E6, 40B/B8,C7,D5,F5, 45C9,54B/D3
ZLL	(102) STD 96B	102 (111)	4B/B1,8D/C6,D8, 11B/D4,13A/H0, 18B/F5,31A6, 40B/B7,C7,D5,F5, 44B/C1,C7,45C5, 54B/D4,62B/C1,F1, 63B/E0,68B/D4,122E9
ZLM	(102) STD 96B	102 (111)	8C/E0,F0
ZLN	MD 96B	1245	97A6
ZLO	STD 96B	1245	97A6
ZLP	A&M 96B	1247	5C/D4,G5
	STD 98B	1192	
ZLQ	(102) STD 96B	102 (112)	5D/B6,G6,8C/A2, 26A/C6,F0,96G8
	STD 98B	1192	
ZLR	MD 96B (REPL) BY JF)	1247	26B/E0
ZLS	STD 96B	1247	APP FIG. 7
ZLT	STD 96D	1247	26D/D0,E0
ZLU	STD 96D	1247	26D/D0
ZLV	STD 96B	1247	APP FIG. 7
ZLW	STD 96B	1247	APP FIG. 7
ZLX	STD 96B	1247	26B/D8
ZLY	A&M 96B	1247	33A/G3,35A/G6
ZLZ	A&M 96B	1247	35A/E6
ZKA	(102)STD 96B	102 (112)	26A/C6,F0, 27A3
ZKB	A&M 96B	1247	APP FIG. 144
ZKC	(102) STD 98B	102 (107), 1248	1A/C8, 1B/B3, 5B/C2,C3, 8A/F7, 11B/G7, 12G6, 26A/G4, 29B2,C1, 31A6, 32F6, 56A/E0-E2,F0-F2, 56B/F1, 57A/E4,F8,G8, 57B/C4,F5, 69A/B2,C4,D2,D4
ZKD	(102)STD 98B	102 (71)	18B/B8
ZKE	(102)STD 98B	102 (71)	18B/B8 12283

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZKF	(102)STD 98B	102 (41)	63B/A3,C1
ZKG	(102)STD 98B	102 (41)	APP FIG. 173, 63B/A3,C1,D3
ZKH	(102)STD 98B	102 (71)	62B/B4,B6,E4,F6
ZKI	(102)STD 98B	102 (71)	APP FIG. 166
ZKJ	MD 86D (REPL BY ZKK)	1180, 1210	40B/B4,C4
ZKK	STD 86D	1180, 1210	40B/A4
ZKL	(102)STD 98B	102 (48)	APP FIG.169
ZKM	(102)STD 98B	102 (48)	APP FIG.167, 4B/C7,D7, 39A/E0, 39C/B4, 70D1,D3,D4, 71B1
ZKN	STD 98B	1250	38C9
ZKO	STD 98B	1250	38C9
ZKP	(102)STD 98B	102 (48)	71A1
ZKR	A&M 98B	1192	5B/D6, 5C/C8,H8
ZKS	A&M 98B	1192	5B/D6, 5C/C8,C9,H8
ZKT	MD 98B (REPL BY ZKU)	1249	10B/E5
ZKU	STD 98B	1249	10B/E5
ZKV	MD 98B (REPL BY ZKW)	1251	82B6,B7,C6
ZKW	STD 98B	1251	82B6,B7,C6
ZKX	MD 76D (REPL BY ZTD)	127, 1177, 1180	41A/C2
ZKY	MD 98B (REPL BY ZKZ)	1254	40B/F0
ZKZ	STD 98B	1254	12H7, 40B/F0
ZJA	MD 76D (REPL BY ZJB)	167, 177, 1138, 1180, 1255, 1258	90A, 52B/D5,E4
ZJB	STD 76D	167, 177, 1138, 1180, 1255, 1258	90A, 52B/D4,D5

DRAWING ISSUE
80D
81A
82D
83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-A55

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 65

CBL-176 (9-68)

OPTION INDEX

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZJC	A&M 99A STD 86D	1255 1256, 1259	APP FIG. 1
ZJD	(102) STD 99A	102 (84), 1255, 1258	APP FIG. 3
ZJE	A&M 99A	1255	APP FIG. 3
ZJF	STD 99A	1255, 1258	8D/D7, 30D4,E4
ZJG	STD 99A	1216, 1255, 1258	57A/G3,G4
ZJH	(102) STD 99A	102 (84), 1216, 1255, 1258	57A/G2,G3
ZJI	(102) STD 99A	102 (84) 1255, 1258	57A/G2,G3 958/C8
ZJJ	A&M 99A	1255	40B/B4,57A/F1 115G2,G3
ZJK	MD 99A (REPL BY ZJF)	1255, 1258	8D/D7,F7, 30D4,E4
ZJL	MD 99A	1216, 1255	57A/F3,F4
ZJM	STD 86D	1256	APP FIG. 176
ZJN	STD 86D	1256	APP FIG. 176
ZJO	STD 86D	1256	55A2
ZJP	STD 86D	1256	51C/F3
ZJQ	A&M 86D (REPL BY ZJR)	1166, 1210	52B/E5
ZJR	STD 86D	1166, 1210	52B/E6
ZJS	MD 101A (AC)	102 (71), 1247	8D/B7
ZJT	STD 101A (AC)	102 (71), 1247	8D/C7

* MEANING OF RATING
(102)STD - PART OF FEATURE PROVIDED ONLY WHEN THAT FEATURE IS FURNISHED
STD - PROVIDED ON ALL CIRCUITS MANUFACTURED ON ISSUE ON WHICH RATED AS STANDARD

A&M - ADDITIONS AND MAINTENANCE CNLY

MD - MANUFACTURE DISCONTINUED

** NUMBER IN ( ) FOLLOWING NOTE NUMBER INDICATES PARAGRAPH WITHIN THAT NOTE.

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION
ZJU	MD 102B (REPL BY ZJV)	167, 177, 1255, 1258	2B/D3,3A/D1,E3, 12F4,20A/D1,31E2, 33A/D5,37B/E3, 38H2,40B/B1,F1, 48C/G5,52B/C4, 54B/C6,57B/A2, 6489
ZJV	STD 102B	167, 177, 1255, 1258	2B/D3,3A/B3,E1, E2,12F5,20A/E1, 30D3,E3,31E1, 37B/E3,38G2, 40B/B1,E1,48C/F5, 52B/C4,54B/C5, 57A/F0,57B/A2, 6489
ZJW	(102) STD 102B	102 (114)	18B/B2,C2,C3,F4, 30F3,54A/C3, 62B/C2,F2,63B/E1
ZJX	STD 102B	167, 177, 1258	34B/A3,35A/F0
ZJY	(102) STD 102B	102 (115)	61A5,A6,B6
ZJZ	A&M 102B	1258	30E3
ZIA	A&M 96B	1125, 1247	33A/H1
ZIB	A&M 96B	1247	APP FIG 2
ZIC	(102) STD 104B	102 (116)	5A/C5
ZID	(102) STD 104B	102 (116)	5A/C6,8A/C7,69B/A2, 123A1,D2
ZIE	A&M 106B	1255	115D4,D5
ZIF	A&M 106B	1255	115C2,F1
ZIG	(102) STD 106B	102, (117), 1260	5C/D7,G8, 5D/B2,G2
ZIH	MD 80D	1192	8A/D9,F9
ZII	STD 80D	1192	8A/E8
ZIJ	STD 96B	1247	31D6
ZIK	102 STD 107A (AC)	102 (111)	54A/F1,F2
ZIL	102 STD 107A (AC)	102 (111)	APP FIG 167,54A/E0, 57A/F1

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION

APP OR WRG	RATED ON ISSUE*	REF NOTES **	LOCATION

MASTER TEST CONTROL CIRCUIT

DWG SIZE 6S

ISSUE 107A

BELL LABORATORIES SD-25800-01- A56

E-7420-816-700 PRINTED IN U.S.A.

FS IA
TEST START

TKCT
TCT
U L 700 B64 -48
TCT
TKCT
DISC
DEC
AEC
KR (127) ZZK KR3 B46
98F4
48 ATLV L KEY
TLV L KEY
LV6
TVI
ST NL KEY
ST NL KEY
(127) (ZXF) (MX) RI MKTI VY SRTI (22) IMSI
41 CAMS
76 4W L KEY
49 4W
49 4W 13T 13B B29 -48 1500
UI TKT
UJ TKT
KJ KI FI FF TKTI
UI,SG,SH LVI 2,2,1 38,38,2B
DF LTI
DG LTI
ST 3T 38 81 -48 2500
PTI
ZKC
86 LIDK L KEY
ZRX
137 AIC
DO
68 LT L KEY
74 TSTB SW SECT 3 NBRDG
ALL
1-8,10,12
ALL SWITCH POSITIONS EXCEPT (LT)
46 CWI
MB
MA
62 RST U L 2L B32 -48 640
62 CCT
SENDER TEST SET CKT
SENDER TEST CKT
ST NL KEY
32A TEST SET WHITE NL KEY
RED NL KEY
MISC CKT FOR ALL FRAMES
RC
RL NL KEY
RT NL KEY
SDT
TSTK
KR
ST NL SW
MASTER TEST FRAME TEL, KEY, & LP CKT (ACD)
1B/B2
AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT
RVTK
SY
ORON
GA
RC
SENDER TEST CKT
SDT DC AV
TRUNK TEST CKT
GENSET L KEY
ST W Z
RCS
99 4WLT DT
P N
SDT
AV
KR
IOT 9
3A/B0
KR 9 10B
37A/A4
GJ
87 IDST U L 2500 B34 -48
5 86 LIDK L KEY 6C
FUSE ALARM MISC CKT
CX
POSITION TRUNK AND CONTROL FRAME (ACD)
ZZW
1B/E0
RCDR & RCDR CONT CKT(MAG TAPE RCDG)
TO
ZXG

DRAWING ISSUES
67D LT
71D RJF
76D
78D
79A
80D
81A

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-BIA

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-BIA

FS IB
KEY RELEASE

MASTER TEST FRAME
TEL, KEY & LP CKT (ACD)
RL
NL SW

32A TEST SET
WHITE
NL KEY
RED
NL KEY

MISC CKT FOR ALL FRAMES

SENDER TEST SET CKT
RL
NL KEY
RL
NL KEY

SENDER TEST CKT
RL
SDT

FUSE, ALARM AND MISC CKT

POSITION TRUNK AND CONTROL FRAME (ACD)
RC

RCDR & RCDR CONT CKT (MAG TAPE RCDR)
RC

RL NL KEY 1 2C
RL NL KEY 1 2B

146 CWRL 3 B47
146 CWH 8
146 CWKR 9
146 CWKR 1U 2U 640 B67 -48

ZTI
ZTH
ZTI

(A), ZKC
(B)
20
38 2 KR2 1

ZTK 146 MFC2 LK2 CWHI 4 5T 1
146 CWH 2 ZTI
B46

40 POSC 2 3T
IQ,IR PO 1,9 28,-
VZ
B30

STK 6T 5B 950 B20 -48
STK 3 48
STK 2B 1
SDT3 L KEY 6C OR 6A 5 .DISC 57A/E3

B17 SDR2 9B 8
(B) 20 TCB 2T 1
30 SDTI 2 1 L KEY

56A/GI BT
(B) 126,128 TOF L KEY 6B OR 6D 5
20 1 2 SDT3 L KEY 3C OR 3A

NO MKR, TV OR PRT SELECTED

SENDER TEST CKT | SENDER TEST SET CKT | SENDER TEST CKT | MTFC CKT
TVTK SDT | C | SDTI -48 | MTP | TTP | PTP
7C/A8
7B/H9
KR
XI

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT
TVTK STVT SDT2 PL SS TVTK -48
TSTK TBI TSTK AMA ONS ONSI SDT3 -48
STMI KR
7T 6 SDT
(N)

B19 TVTI L KEY 3B 2 1 20 MC 11 12B TVT 125,127 4T,12 3,- KR2 20 6T 6B B20 700 -48
B19 SDT3 L KEY 5 6B OR 6D
SDT3

ZQK
ZZK KR3 3 ZUB B45
138 KR -48
KR REP MRLS 48

REPS 2 12 REPR
REPR 1U 2U 640 B83 -48
ZPX
ZPW
ZPX REPS 1
ZQK

B29, B67 27,154 REP 68,- 5,10
ZZH REPT 12 B68

KR,KRI 13T 138 700 81 -48
12T KR 11

B5 MKT2 4B 3
40 TSKI 3 48 VZ B30
SRT2 4 5T B5
B6 TKT2 9T 8
127 TCT 1 B53
TS 5 6T B2
MFC 3 48 B2
FI 11 12B B14
NTH 2B 1 B14
86 NTH2 1 B36
24 MTT 9 10T B29
26 ATT 9 10T B29
135 JSF 3 B57
146
CWK 11 B47
NCW 5 B47

DRAWING ISSUE
98B

MASTER TEST CONTROL CIRCUIT
2
SD-25800-01-B18
BELL TELEPHONE LABORATORIES INCORPORATED
SHEET 65

DRAWING ISSUE
7BD
8DD

SD-25800-01-B18

FS 2A

TEST CLASS SELECTION

TSTB SW SECT I
11 ALL
3A/HO
TSTB

B5 (YN) ST 2T 1
(67)
(74)
(24)
TSTA SW SECT I
11 ALL OFF 12
8B 7 MTT
(24)
B29 (ZNQ)
(26)
8T 7 ATT
B29

DT L KEY (67) 2 3C 1
(74)
DT 1

(86) DTR
DTR 2B/BO
(86) DTF L KEY 3A 2 1
IG IG IF
(ZTH) (ZTI) (ZZV) (ZZW)
(146) CW2 7
(146) CWOR 7
(120) ACDT L KEY 2 1 3A
(120) ACDI 12
28/BO ACDI

DT 12T 12B BI -48 700
11T 10
(UI,UJ) MKTI 9B,13B 11T,13T 700,950
KR 10T 9 3A/BO

(120) ACDT 7 U L BI -48 700
(120) ACDT U L BI -48 700
8 (ZZW)
(146) CWOR U L B47 -48 700
6 (ZTI)

ORIG 2 (74) (67)
ORIG L KEY 2 3D 1
ORIG 13T 13B BI -48 700
12T 11

INC 3 (74) (67) IG IF IF IG
INC L KEY 2 3C 1
(RS,RT) INC 11T,13T 9B,13B BI -48 700
10T 9

86 DTF L KEY 5 4 6D
IG ZUG IG
ZUH ZUH
ZUJ CATN L KEY 2 1 3C
(67)
INC 2B/HO
IG 12 IG ZUG IG
IG 86 DTRI ZUH ZUH
(86) DTRI U L B33 -48 700
8 IG
ZUH 4B 3 (60) LLP3
ZUK CATN 9
ZUK CATN 12
ZUH

ZUK CATN
CATN U L B35 -48 700
3A/DO

MASTER TEST CONTROL CIRCUIT
(2)
SD-25800-01-B2A
ISSUE 9/A
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-B2B

FS 2B
TEST CLASS SELECTION

INC L KEY
ORIG L KEY
DT L KEY
ALL
ST
2A/F6
INC
TSTA SW SECT 1
SDT 4
SDT L KEY 2 1 3D
DTF L KEY 6A 5 4
DTR 2A/C1
86 DTR
96 DTR U L B33 -48 700
KR 9 10T
3A/B0
IG
120 ACDI
ACDI 2A/C2
ACDT L KEY 6A 5 4
TACD L KEY 6B 5 4
ZUT ZUW ZZW ZUV
OR 8
OR L KEY 2 1 3C
SDR L KEY 2 1 3D
SDR 5
IF ZZV
OR 14T 13B B1 -48 700
SRTI 8B 9T 400
PC 9 8 10T
PCS 13T 13B B20 -48 700 12T 11
118 SDT 10
ZJU ZJV
SDR 13T 13B B1 -48 700 12T 11
VY VZ
60,177 LLPT L KEY 5 4 6D
60,178 LLP1
60,178 LLP 13T,13T 98,12B -48 700 3A/F2
LLP 2 38
41 CAM5 5 4 68
LR -48 CAMA SDR CKT
OUTGOING SDR LINK ASSOC WITH CAMA SENDERS
QK,QM IR L KEY 2 1 3C
IR 9
IR 10T 8B B1 -48 700 9T 8
XI
41 CA L KEY 1 2A
MC8 2B
41 CAMS 12T
CAMS 6
41 CAM3 13T 13B B2B -48 700 11 12B
CAMS 3A/F8
41 CAMS 13B 13T 950
IMS L KEY 2 1 3D
KL
IMS 7
IMS 13T 13B B1 -48 700 12T 11
IMS1 8B 10T 700
QGT 3A/GC
PTT 10
PT 10T 8B B1 -48 700 9T 8
PTT 3B/A5
PT1 8B 9T 400
TSTA SW SECT 2
B19 ALL SDT 4
SDT L KEY 2 1 3A
ST 2B 1
SDT 13T 12B B2 -48 700 12T 11
65B/CO
BELL TELEPHONE LABORATORIES INCORPORATED
MASTER TEST CONTROL CIRCUIT
6S
2
SD-25800-01-B2B
102B ISSUE

FS 2C
TEST CLASS SELECTION

TSTA SW SECT 1 — ST — ALL / OFF — 2A/G1
TSTB SW SECT 1 — ALL / OFF — 2B/G7
OGT L KEY — LLPT L KEY — LLPI — LLP — LLS 3B/A4 — WB 3B/A2 — CATN 2A/C6
REPS — REPR — KR — TKT — N — ORT — MTT — ATT — REP L KEY — TKT
CATN — CATN L KEY — DTRI — LLP 2B/D4
MISC L KEY — MISC
IAO L KEY — IAO
ITDO L KEY — ITDO
ITP L KEY — ATNT L KEY — ITP — ATNT
ITNP L KEY — ITNP
IMT L KEY — CAMS L KEY — IMT — MLV 3B/F0 — CAMS 2B/E6
NLF 3B/B0

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S
SD-25800-01-B3A
ISSUE 102B
DRAWING ISSUE 760 794

FS 2D
TEST CLASS SELECTION

TSTA SW SECT 1 — ST — ALL / OFF — 2A/GI
TSTB SW SECT 1 — TSTB 11 — ALL — 3A/GO

3A/G9 MLV L KEY — 68 — 74 — 65

60 LLPT L KEY — 6A — 5 4

60 LLPV — 8 — 101 DAPB L KEY — 5 6B — 101 DAPA L KEY — 5 6A — 101 TCLC — 6

60 LLPV U L B31 700 -48 — 12 — ND

MLV 8 — ND — ND — AE — AB — OR — CV — AE — AE

LV 13T 11B B1 700 -48 — 12T 11 — UI,SG,SH LVI 4B,6B,8B 6T,6T,12T 400,400,450

AE — AD DAP — 101 DAPB L KEY — 1 2 — AD TCLA L KEY

101 DAPA L KEY — 5 4 — 5 4 — 6A 6B 3A

101 TCLC — 12 — AD DAP U L B40 700 -48

AE — 11 — 135

3A/E1 WB — 12 WCST — WB 5 — WCST U L B74 700 -48

95A/F1 TRK TEST CKT — STG — ST — LLS

101 TCLC L KEY — B18 11 — 2 3D — AC — AE — 101 — TCLC U L B40 2500 -48

AD TCLA L KEY — 6A 5 4 — 3B — AD TCLB L KEY — 2 1

AD DAP — 3

LT L KEY — 2 3A — 1 — 68 — LT 9 — 74 — 65

AE — AE — J,K LT 8T,13T 7B,11B B1 700 -48 — 7T,12T 6,11 — DF,DG LTI 8B,13B 10T,14T 700

ZTH — ZTI — ZTI — AA

146 CW2 — 4 — 146 CWLT — 4 — 146 CWH — 10 — 146 CWTL — 4 — 146 CWTV — 4 — 146 CWTL U L B47 700 -48 — 6 — ZTI

146 CWLT U L B47 700 -48 — 6

TV U L B88 950 -48 — 12 — 171

133 — LLS 2 — LLS 3A/E0 — 135 — 133 — 72 — 1 2 PTT L KEY — 3A PTT 2B/F8 — 72

171 — B — TV 13T 12B B1 700 -48 — 12T 11 — TVI 4B 6T 400

TVT 10 — 74 — 71 — KA,KE — SC,SD — 47 TVTC L KEY — 3A — 2 1 — SC,SD — B — LZ — KE — B — KM — KD

38 — 2 1 — TVT L KEY — 71 — 71 — KE — LZ — B — SC,SD — KA — KD — KA — KC — KC — KM

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

SD-25800-01-B3B

ISSUE 101A

DRAWING SIZE 7.0 780

FS 3A
CLASS OF TEST LAMPS

FS 3B
START TEST LAMP

DRAWING ISSUE
76D
80D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-B4A

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B4A

FS 4
AUXILIARY TEST CLASS RELAYS

(133) LLS
4
DT
58 4
OR
58 4

MS
B4 7T 48 400
TCI
2T 1
MS 226 B1 -48
MS
2B 1
MCI
108 9
OCI

548/04 TM (ZLL)
MSI
B4 MS 2T 1
10T 88 950 B3 -48
9660 RTF (ZZW)
MC2
9T 8
7 88 B3

MKT2
95 MKTI 88 7
13T 138 1500 B1 -48
10581 WMT (ZTF) MKT4
U L 700 B75 -48
(38) MKT3
13T 138 1500 B1 -48

5887 WBT (106)
TKT
B6 2T 1
(FE,FF) TKTI
11T,13T 118,138 950 B1 -48

B12 (TK) (M) SDR3 118 10 (TK)
SDR4
10T 108 1500 B12 -48

MTFC CKT
DIAL TONE OR ACD MARKER CKT
OCI -48

TKT2
86 TKTI 88 7
10T 88 950 B1 -48
(ZKM)
1 (40) TSKI 2B
2B 2B MC5 1
4T (40) CAM 3
(ZNV) TKT
(ZMB) (ZNX) LAMC (ZMB)
(ZKM) PCAM 11
TKT
(ZMB)
(ZUA) N2 7
(ZKM)

DISTRIBUTOR & SCANNER CKT OR DAS ETS

B868 (ZMB) ZQR MC23 4
(172,ZNY) LAMC
(ZOF) TCPO L KEY 2 3A
MKT

B6 (ZUE) IAO 88 7 (ZUE)
IAO1
U L 700 B46 -48

SDRA
B5 SDR 6B 5 (TZ)
13T 138 700 B1 -48
115H4 A (ZVB) (TZ) (TY)
B5 SDRA 6B 5 (TZ)
B5 IMS 8B 7 (22)
(M) KF2 6 7 9B
12T 128 1500 B12 -48
9F1 NTC

B5 (TZ) SDRA 12T 11 (SB) (47)
(SD,KH) ANI L KEY 2,6 3B,7C (47) (SB)
(48) ASDR
10T 88 700 B28 -48

B6 TKTI 2B 1
(M) KF2 1 2T
(M) TKT3
12T 128 1500 B12 -48
(ZPM)
TKT3A
U L 700 B39 -48

B31 (41) MCII 4T 3
(41) IMT 11 128
(41) IMTI
13T 138 950 B28 -48
CK4
53B/A5

KLT
10T 9
3IC9
LT (ZSL)
(ZSJ,ZNF) ULLT L KEY 3C 2
(ZRI) ULLT
U L 700 B46 -48

760
780
82D
83A

DRAWING ISSUE
103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B4B
BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-B4B

FS 5A
PREFERENCE

FS 5B
PREFERENCE

AUTO. RANGE EXT TEST CKT
ON2
ARET
ZQA ARET
ZRZ
-48

AUTO. PROG TRUNK TEST CKT
STP2 PR -48

5A/F9 PR
B67 154 PR ZRW SN PRI
B29 SN 27 PR 48 3
B2 SN MFC 8T 7 SN MFC
PR MFC -48

COMPL MKR CKT
MTFC CKT
AMA5
NAMA 25 TS2 5 6B
DCT 6 7T ZRW ZRU
ZSI LV6A 1 3B ZRW
YG UZ ZZL,ZZM IT TA 1,3B 2T,1 TA
UZ LK2 4 5B
YG SA 48 ASDR SB 1 2B SB
SA YG 40 CAM7 2B 1 YG ZIC
179 CDTT L KEY ZID 1 2D ZID
ZIC 27,154 MTCP 9T,2 8,-
ZRW

154 EPR IL 2L B82 640 -48
YS NI 9 10T
6T MFC 5
154 EPR 5
PGB 2 MTCP U L B82 700 -48
12 5 PGA MTCP
MTCP 9 9 PR IU 2U B82 640 -48
154 REP 11
4T 3 KRI

YG 3 4T MFC
ZZL,ZZM IT B6 7B 6 YG
B16 ROT 7T 6 WN ZOT
8B/F7 KAMA
ZWH 4T 3 TCI B4
8T 7 MKTI B5
2 3T OR B5
4T 3 DT B5

B29 TVK 2 3T TVKI 5B 4 29
B88 TVK 5 TVKI
171
27 EPR 5B/A4

B17 LV4 9 10T SDRI 4B 3 TV4 2 3B
B
171 TVI 1
MC2 11A/B1 MC2
1 SDRI 1
B88

134 135 SKTM 6 LWLF 8 135 ZRW
ZRV PR 5B/C2
B59 135 WCST 11
4 5 6B 135 CTMI 12 CTM2 8 LPCK 7
134 WODT L KEY

ZXG 126 TOF L KEY 20 TRO L KEY
B17 TV 9B 8 LV6 5B 4 B
20 TLV L KEY 4 5A
KA 48 ATLV 8T 7 KA
ZXF 2 ZXF 3C OR 3A
2 1 3D
20 WE
WF TRNO L KEY WF
WE 2 1 WE 3C
20 ZRW
ZRU LV2 5B/D0

20
ZXG 126 TOF L KEY 6C OR 6A 5 ZXF
ZXF 125,127 TVT 9,9 10T,-
125,127 TVT ZXF 11,8 12T,-

MTFC CKT | TV CKT | TRNSL CKT
TOP TIK TVI- T-OP -48
TNO TIK TVI- T-OF/NO -48

B17 LV3 10T 9 B
3 MC8 4B
TD TLV
TE B
M
L
TE
TE TD MLV MLV/TLV
B8 VER2 10T 9
TE TD MLV MLV/TLV
MTFC CKT
SB

B17 LV2 12T 11 B
B17 TV 2T 1 B
B26 PT 7T 6 F
B5 MKT2 8T 7
B6 TKTI 4B 3
B88 171 TV 2
SRT2 8 9T 3T 2 B5
5A/A0 1
XI IR
B6 LV 10B 9 B LV2 4 5B
87 HIDST 7 87 LITR 5
B6 K LT 5T 4

B8 VER2 2B 1 TC
TB KVI 20B/D6
ZZW MC 44B/C9
B6 MC5 6T 5 VERI 8B 7
B46 ULLT 11 ZRI
TB VER6 12B 11 VER7 13T 13B B6 950 -48
18B/A5 2LN VER2 13T 13B B6 950 -48
VER2 11T 11B B6 950 -48

ISSUE 104B

MASTER TEST CONTROL CIRCUIT 2 SD-25800-01-B5A
BELL TELEPHONE LABORATORIES INCORPORATED 6S

DRAWING ISSUE
80D
82D
83A

SD-25800-01-B5A

FS 5C (MFR DISC)
PREFERENCE

DRAWING ISSUE 80D

EPR
5A/C7 EPR
6T 48 B26 700 -48
(27) (27)
9 (YS) NI 10T
6T MFC 5
(27) (27)
2
EPR 1 38
MTCP 10T 88 700
PR
-48 B26 6 7B
PR 6 7T
MTCP 7T 6
PR 9TR 8BR S-1750
8TF 7BF P-850
(ZNN) REP 48 3 B26 -48
(27) (SN) B26 -48 (SM)
ATTP 3T 2 LVP 3T 2 TTRP 3T 2 AREP 3T -48
5C/C9
B6 ITNP 4B 3 (ZRU) MTCP
7A/F1
5A/D7 (ZRV) KRI 3 4T
(27)
B6 LV 10B 9 (ZKC) (ZRU) LV2 4 5B (ZKC) (27)
(A) (B) (A)
5A/E7 LV2 (B) LV2 12T 11 (B)
B88 TV 2 (171)
TV 2T 1 (171)
(B) (A) (171)
(ZRU)
B26 (ZRU) (F) PT 7T 6 (27)
(EO) (EU) 4WE 7 8 9T
(EP) (EO) (EO)
(M) KF2 38 1 2 (27)
(EN)
(ZNA) (EP) (EP)
(ZNB) 8 9 10B
49 4W
B6 ITNP 9 10T TKT1 48 3 (ZRU)
(H)
(G) 38 1 2 (H) (27)
PC
(H) (H)
(ZRU) B6 (ZRU) (K) LT 5T 4 (GH) (27)
(XI) 3T 2 1 IR
(ZRU) B5 (YR)
1 2 OR 3T
(ZRU)
B5 SRT2 9T 8 (ZRU)
(YR)
OR
4A/A1
B5 MKT2 8T 7
(27) (GI) (GI) (27)
(87) IDST 7
(87) LITR 5
(ZRU)
(SN) (SN) (SM)
(27) PR 2B 1 (SN) (SN)
(174) LIP 10 (ZKS) (ZKS)
(ZKR) (ZKR) (ZOI)
2 38 ROTP (159)
(SN) (28) (SN)
(SN)
2 38 ATTP (39)
(SN)
(ZWW)
(ZWV) (ZRT) 7 WTRP
(ZWW)
(MG)
38 2 (39) TTRP (MF)
(MG)
(ZXK)
2B 1 (ZXL) AREP
(ZXK)

ISSUE 98B

MASTER TEST CONTROL (2) SD-25800-01-B5B
BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-B5B

SD-25800-01-B5C

TRUNK TEST REGISTER CKT (WIDEBAND)

AUTOMATIC RANGE EXTENSION TEST CKT

TRUNK TEST REGISTER CKT

COMPUTER LINE VERIFICATION ACCESS CKT

LINE VERIFICATION CKT

AUTOMATIC PROGRESSION TRUNK TEST CKT

POWER AND DATA INTERFACE CKT (ETS PDI)

POWER AND DATA INTERFACE CKT (ETS PDI)

REMOTE OFFICE TEST LINE CKT OR REMOTE OFFICE TEST LINE REGISTER CKT

MASTER TEST FRAME CONN. CKT

MINI-ROTL INTERFACE CKT

LINE INSULATION TEST CONTROL CKT

FS 5D PREFERENCE

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

SD-25800-01-B5C

ISSUE 106B

58/87

(154) FS 5E
PREFERENCE

LINE INSULATION TEST CONTROL CKT.
AUTOMATIC PROGRESSION TRUNK TEST CKT
REMOTE OFFICE TEST LINE CKT OR REMOTE OFFICE TEST LINE REGISTER CKT
MASTER TEST FRAME CONN. CKT
TRUNK TEST REGISTER CKT (WIDEBAND)
AUTOMATIC RANGE EXTENSION TEST CKT
TRUNK TEST REGISTER CKT
LINE VERIFICATION CKT
COMPUTER LINE VERIFICATION ACCESS CKT
POWER AND DATA INTERFACE CKT (ETS PDI)

LIP, ATTP, ROTP, WTRP, AREP, TTRP, LVP, BSY
ZMG, ZIG, ZLQ, ZNH, ZNI
PGB, PGA, B82, B67, 640, 2500, 700

LINE INSULATION TEST CONTROL CKT.
REMOTE OFFICE TEST LINE CKT OR REMOTE OFFICE TEST LINE REGISTER CKT
MASTER TEST FRAME CONN. CKT
MINI-ROTL INTERFACE CKT
TRUNK TEST REGISTER CKT (WIDEBAND)
AUTOMATIC RANGE EXTENSION TEST CKT
TRUNK TEST REGISTER CKT
POWER AND DATA INTERFACE CKT (ETS PDI)
LINE VERIFICATION CKT
COMPUTER LINE VERIFICATION ACCESS CKT (CLVA)
AUTOMATIC PROGRESSION TRUNK TEST CKT

PR, WPR, LPR, RTP2

BELL TELEPHONE LABORATORIES INCORPORATED
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-850
DRAWING ISSUE 10 68
DRAWING ISSUE 8 00

FS 6A
TEST CONTROL

DRAWING ISSUE: 74A, 76D, 77A, 78D, 80D

B17 TV 4T 3 — 4A/G3 — TV — LZ — KA

PJ, PK ATLV L KEY 2 3C — SB — KH — 48 ATLV 9T 98 828 -48 2500

2 SC, SD TVTC 3D L KEY

CAMA TRANSVERTER CKT: GC BIRA XS PRL ROP TII SDTI — MTFC CKT

44 ROP L KEY 2 3A — ROPT — VZ — 44 MCIO 7 8B — 44 ROP 9T 88 828 -48 700

2 3T 44 TVA — ROP 8T 7 6B/G3

LZ — 47 — 44 TVA 12T 118 828 -48 2500

KA — KH 3D CAMA L KEY 2 1 — KG

41 MCII 1 2T ROP — VZ — MFCI -48 — 58E2

71 TVT L KEY 2 3C — 71 — 71 — KF — 74 — TSTB SW SECT 2 — 11 ALL — TVT 10 — MLV 8

TRAFFIC REGISTER CKT

86 TW NI 4T 3 TW — PCT

11T 44 TVA 10 — KH — KG — SB — 48 48 ATLV 3 — SB

ANI L KEY 3C 2 1 — KH — KG — 20 TLV L KEY 5D 4 — KH — KG — 20

QJ REP L KEY 2 3A — ZQN AL 800 — AL — TBL ACO — ALARM CKT MN

TO TRUNK AL TEST CKT — ZQK

B1 KR 3 4T — TV 1 3B — LV 1 3T — 74 — 68 MLV L KEY 2 3C — 74

LV6 10T 8B 2500 B1 -48

AC — TAC2

5 ROT L KEY 6C OR 6A

OK — OK -48

ZSI LV6A 13T 13B 700 B1 -48

LV6 8 9T

94G4 LOLP

55A4 DCT!

LV3 11 12T — LV3 13T 13B 2500 B1 -48

53C/G0 OBS — 10 11T LV5 — 9 10B LV2

LV5 12T 12B 1500 B1 -48

11B 9 10 LV4

68/AO MRL

MFCI 9 10B — B — SDRI 12B 11 — SDR2 12T 12B 700 91 -48

171 5 SDRI SDR2 U L 888 700 -48

12 SDR2

171 — N1 2B 1 — SDR2 10 11T

42A/AO KRG

55 — 78A6 CDN

B17 LV6 5T 4 — TLV — C3 OR B19 -48

B31 44 ROP 7B 6 — 44 ROP — CLOR 828 -48

BTI, COSI, DOSI, DOSI, MOSI — TSR — ROSI — NTC -48

YN — SRTI 2T 1 — XX — P — N — SDT 8 9B — N

YN — 128 11 31 ORT — 6D ZZR, ZZS AN L KEY 5 — 86 DTR 7

86 4T N 4B 1600 — 24 MTT 8T 7 — TKTL 9 10B — N 300 B1 -48

YN — 6D

TKT2 5B 4 — N — TRUNK TEST CKT — TTK

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B6A

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-25800-01-B6A

FS 6B
TEST CONTROL

TRUNK TEST CKT
REP3
RRLS

KR 81 3 4T 6A/G0 — MRL — MRL 58 4 — MFCI 12B 11

MLVM 2B 1 — VER6 3B 1 — MLVM 6B 5 — SLK 11 12B

LV6 78 6 — LV3 3 4T — LV3 2T 1 — LV 7T 6

LV2 13T 12B 1500 81 -48 — LV4 13T 12B 1500 81 -48

2T NI 1 — TW, TX

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT
AMA

SDR 12B 11 — RCY — SDRI — 68 SDT 5

22 IMS 12B 11 — N AMA 2B 1 — 171

41 CAMS 4T 3 — VZ — VZ — SDRI 13T 13B 1500 81 -48

12T SDRI 11 — SDRI 12 — 171 — SDRI U L 888 700 -48

53B/C1 G6B 55C3

10A/F1 NI

LV2 2 1 38 — LV4 2 1 38

LV3 12B 11 — LV5 9T 8

171 — 81 KR 5 6T — TV2 5B 4 — 171 TV 5

UI, SG, SH LVI 2T, 2T, 11T 1, 1, 10 — LTI 7T 6 — GH — GI — GI

87 IDST 9T — 87 LITR 1

89A3 KR 101 — 135 WCST 8

90E8 KR 105 — F PTI 5B 4

22 IMSI 7T 6

MKTI 6T 5 — VY — VZ — VZ — VZ — VZ — SRTI 5 6T — VZ — VZ

38 2 1 — 41 CAM5

SRT2 7T 6

TKT2 5T 4

VZ — 41 CAMS 8T 7 — VZ

6A/B9 ROP — 41 CAMS 10T 9

7104 KR — 40 CAM7 11 12T — UJ MKTI 9 10B

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT
OK — REP

86 N 2T 1 — VY — VZ — VZ — 41 CAMI 2B 1 — 40 POSC 5B 4 — VZ

IT AD 9 — IS AD 4 — VZ — VZ

10T, 12T YR, YS NI 9, 11

82 26 — XI, SN MFC 8B 7 — 26 ATT 10B 9 — SRTI 7 8T — XI, SN — QJ REP L KEY 2 3D

XI IR 6 7B — 154 PR 12 — 27 PR 4 5T — ZNP

ZRW — ZRY — 154 REP 12 — ZRW

YR, YS NI 11T, 13T 10B, 13B 700 — ZRZ 87 -48 — 27 — ZNP REP 2B 1 B2S -48

ZNP NI 81 -48 500

51 BRL 2B 1 — R32 1U 2U 640 — 154 REP 882 -48

ZNN REP 7T 7B B26 950 -48 — 27

ZPX REPS 5

ZZH REPT 1U 2U B83 640 -48 — 27, 154

ZO — CL — ZO — TKTI 8T 7 — OL TKT 5802

ZQK — 27, 154 REP 5, 9 6T — 27, 154 MTCP 28, 4 — ZQK

XI, SN

XI

DRAWING ISSUE
74A
800

ISSUE 99A

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
2 SD-25800-01-868
6S

SD-25800-01-868

FS 7A

MASTER TEST FRAME CONNECTOR PREFERENCE START

MTFC CKT

MTP

PTP

TTP

SKT

TRUNK TEST CKT

STO SEZ OEM

ST2 ST1 133 LLS

ZPO YS NI 108 9 7405

N2 ZUA N2 846 -48 700

ZYW ZYV 130 TGTS L KEY 122 TSST 38 4

ZZV ZZW 120 ACDI 120 OBS 10 68,CO 4 5 ZQY,ZQO OBS L KEY ZWM

ZYG ZWH ZWN 134 WROR L KEY 3A 135 WTLHI

PT 1 2 3T

51 NIT NL KEY 1 2D

PZ OA 59 PER 9

MY RO

110 CBRL 8

FL FK 51 BRLI 5T 4 51 BRL 5T 4

PZ 1 2 3C

51 CPN L KEY

OA MY

TVI 1 2 3T

171 88 SDRI 7 6 TV

B6 48 3 ITNP

B17 LV5 7T 6 SO SP 88 7 6 LV4

MTCP 58/CO ZRU SO

SDR2 7 10 118 SO B17

ZXG 127 TST 3 3A 1 2 RST L KEY ZXH ZKC

27,154 EPR 3T,- 2,4

ZUQ ZUR SKT2 SKT1 NPNID L KEY

3T 1 2 ITNP

GH GI DT 8 9T 7 OR 9 10B 8 XI IR 1 2B MSI 4 5T

YR,YS NI 6,5 78,68 MFCI 7 88 MTP B2 226 -48

87 TI 1 2 3A MTP 121 TRT L KEY

REGISTER AND CAMA SENDER TEST CKT

BKC RPE3 -48

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-87A

BELL TELEPHONE LABORATORIES INCORPORATED

FORM 6S

DRAWING ISSUE

67D MS

70A

73D

74A

80D

83A

ISSUE 98B

SD-25800-01-87A

FS 7B

TRANSVERTER AND PRETRANSLATOR SELECTION

MTFC CKT

TTP — TVS

MT SW SECT 2

18 ALL — 0-9, 1-10 — 10,11, 11-17

MULT TO OTHER UNUSED TERMINALS ON SAME SW SECT

52 — 19,21

CONNECT LEAD CORRESPONDING TO NO. OF LAST TRANSVERTER PROVIDED

19,21 (1ST)	19,21 (2ND-5TH)	21 (6TH-9TH)	21 (10TH)
MT0 L KEY	MT1-4 L KEY	MT5-8 L KEY	MT9 L KEY
0	1-4	5-8	9
3A	3A (EVEN) 3B (ODD)	3A (EVEN) 3B (ODD)	3B

81

MTU SW SECT 2

11 ALL — 0-9, 1-10 — OFF, 12

MULT TO OTHER UNUSED TERMINALS ON SAME SW SECT

MT SW SECT 3

18 ALL — 0-2, 1-3, 3,4, 4,5, 5-7, 6-8, 8-11, 9-17

CONN LEADS AS REQD CORRESPONDING TO NO. OF PRETRANSLATORS PROVIDED

ZRF, ZRE, ZRM, ZRL

MULT TO OTHER UNUSED TERMINALS ON SAME SW SECT

52,ZRF,ZRM — 52 — 21,ZRC,ZRO

SECT 4

1 OFF — OFF 18

CONNECT LEAD CORRESPONDING TO NO. OF LAST PRETRANSLATOR PROVIDED

21 MT0 (1ST) L KEY	21 MT1 (2ND) L KEY	21 MT2 (3RD) L KEY	21 MT3 (4TH) L KEY	21 MT4 (5TH) L KEY	21 MT5 (6TH) L KEY	21 MT6 (7TH) L KEY	21 MT7 (8TH) L KEY
0	1	2	3	4	5	6	7
6D	6C	6D	6C	6D	6C	6D	6C

ZRC, ZRO, ZRN

MTU SW SECT 3

11 ALL — 0-2, 1-3, 3,4, 4,5, 5-7, 6-8, 8,9, 9,10 — OFF, 12

CONN LEADS AS REQD CORRESPONDING TO NO. OF PRETRANSLATORS PROVIDED

ZRH, ZRG, ZRQ, ZRP

MULT TO OTHER UNUSED TERMINALS ON SAME SW SECT

81,ZRH,ZRQ — 81 — 21,ZRC,ZRQ

MISC CKT FOR ALL FRAMES (TRANSVERTER FRAMES)

RC-JCK — TV1 — TV0 — INT TV — LAST TV — TVT0-9

BM — BN

TVT0-9 — TVT- -48

PTP — PTS

PTT0-7 — PTT -48

SKT — TTL — LV5 — SDR2 — 171 SDR2

SKT — MTL — TQ CKG — MFCI — 82

TP — CKG — CKG1 — TP

TP — ITNP — TP — TQ — TQ — 11B/H5

KR — KR -48 — 1B/G8

MTFC CKT

DRAWING ISSUE
80D
62D

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-87B

BELL TELEPHONE LABORATORIES INCORPORATED — EDITION 6S

SD-25800-01-BTC

FS 7C
MARKER SELECTION

(12TH) 21 MTII L KEY
(11TH) 21 MTIO L KEY
(2ND-10TH) 19,21 MTI-9 L KEY
(1ST) 19,21 MTO L KEY
21 MTIO L KEY
21 MTO L KEY
21 MTI-6 L KEY
21 MT7 L KEY
(1ST) 19,21 MTTI L KEY

ZUX, ZUY, ZUZ, ZTA, ZVZ, ZVY

CONNECT LEAD CORRESPONDING TO NO. OF LAST MARKER PROVIDED

CONNECT LEAD CORRESPONDING TO NO. OF LAST MARKER PROVIDED

CONNECT MKT-LEADS AS REQD, CORRESPONDING TO NO. OF MARKERS PROVIDED

MULTIPLE TO OTHER UNUSED TERMINALS ON SAME SWITCH SECTION

MT SW SECT 1

MT SW SECT 4

MTU SW SECT 4

MTU SW SECT 5

ALL UNDESIGNATED SWITCH POSITIONS

MTFC CKT — MTP — MKS — GH — GI — 87 TI — 4

MTFC CKT — MKT — -48

MKTO-17

MISC CKT FOR ALL FRAMES (MARKER FRAMES)
0 MKR — INT MKR — LAST MKR
RC-JCK — RC-JCK — RC-JCK
MK1 — MK10

KR, KRI — KR — -48 — 1B/F5

CONNECT MKT-LEADS AS REQD CORRESPONDING TO NO. OF MARKERS PROVIDED

MULTIPLE TO OTHER UNUSED TERMINALS ON SAME SWITCH SECTION

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
6S
2
SD-25800-01-B7C
SC

PART OF FS 9

OPERATION OF MARKER TEST RELAYS

SD-25800-01-88B

PART OF FS 9

OPERATION OF MKR TEST RELAYS

COMPL MKR CKT

STS SW SECT. 1

KSK — B38 6 — (98) — (99) 12 ALL — 0-5 1 — MT28

MT35 MT28 -48

SKTK — B38 5 — (98) (24) MTT 9 10B (00) — MT30

MT35 MT30, 31, 32 -48

SKAL 8 — KSK 2

MT- MT38 MT37 -48

AGC SW SECT. 1

B98 (ZST) (105) AGC L KEY 2 3A 12 ALL — 0-4 1 (105) (CU) (C0) TSII 6T 5 — AGCT

MT- MT38 -48

(ZSU) (105) (ZSU) (ZSW) AGCM L KEY 1 3B 2 (ZSU) AGCM

8C/F8

B38 MTTK 11 (99) — MT40

MT35 MT40 -48

(134) VLK L KEY — B54/DI 2 3B — (135) WBT4 6 — MT44

MT43 MT44 -48

(134) WCH SW SECT. 1 — B54/DI 12 ALL — (135) WBT4 5 — 0-9,ACB 1 — MT45

MT43 MT45 -48

(134) WRL SW SECT. 1 — B94/DI 12 ALL — (135) WBT4 4 — 0-9,ALB 1 — MT46

MT43 MT46 MT50 -48

(135) WMT B57 12 — MT47

(135) WLV B49 9

MT43 MT47 MT48 -48

(135) WBT4 B56 12 — MT49

MT43 MT49 -48

ACD MKR ONLY

(ZUT) TACD L KEY B1 2 3C — (ZUW) MT1

MT- MT10 -48

(135) CSTK B59 10 — (135) WMTI 9 — MT53

MT43 MT53 -48

WMT WTL WCK

10787

MTFC CKT

(72,ZQW) KAMA L KEY B3 2 3C — (ZQR) MC23 9 — (ZQX) — MT57

MT57 -48

(ZQX)

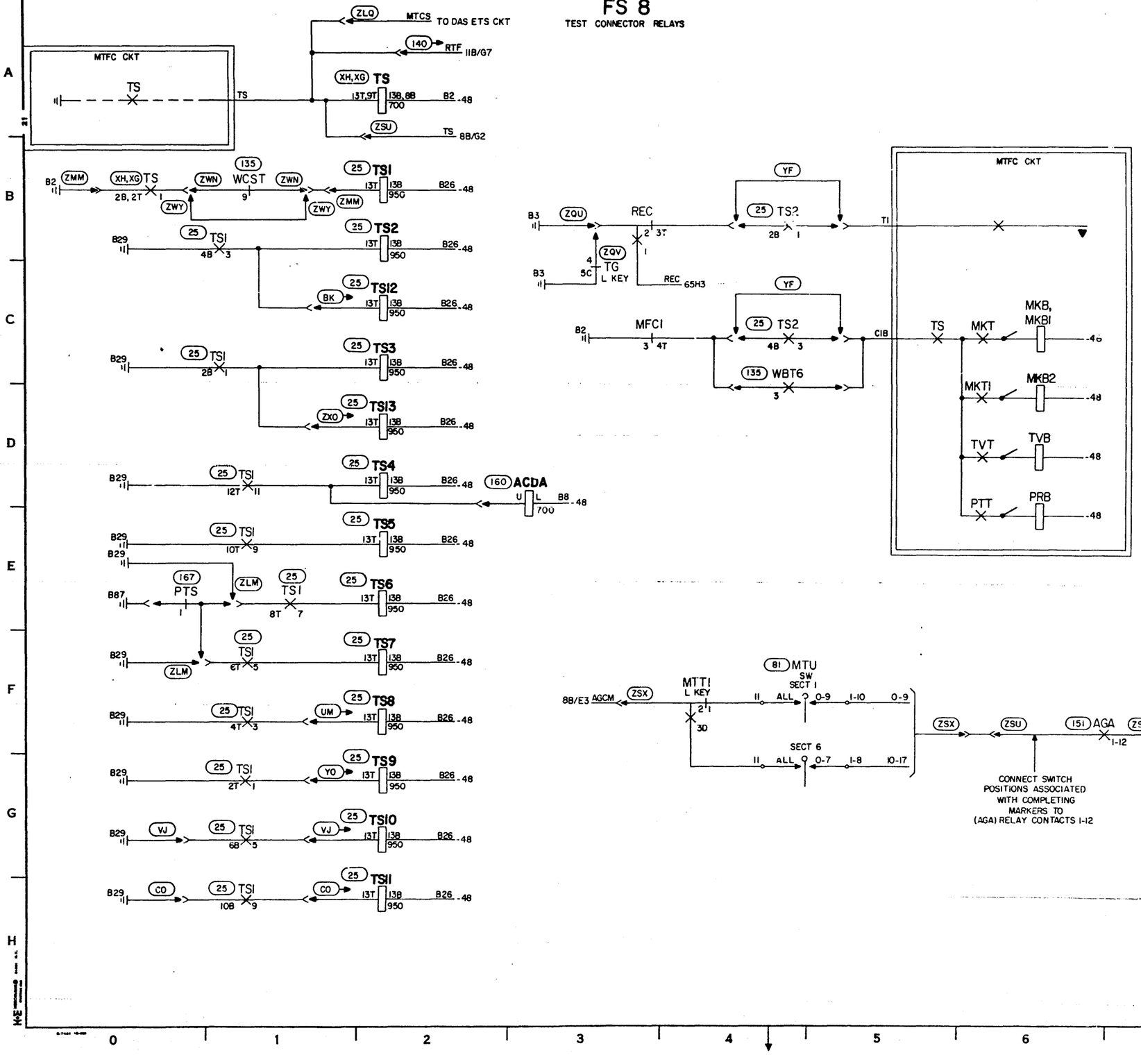
KAMA (ZOT) — 9A/D3 KAMA

TS MTPI (ZSU) TS

MTFC CKT — 8C/A2

MASTER TEST CONTROL CIRCUIT	
BELL TELEPHONE LABORATORIES INCORPORATED	2
6S	SD-25800-01-88B
DRAWING ISSUE 99A	

FS 8
TEST CONNECTOR RELAYS



DRAWING ISSUE
70A RCE CAR
710 EM
780
800

ISSUE 96B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B8C

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B8C

PART OF FS 9

OPERATION OF MKR TEST RELAYS

MKR CKT

MTFC CKT

B6 ITNP 9T 8 — ZNP — -41

41 — CAMi 3 4B — 41 — -25 — -41 — MT12 — MTFC CKT — MT12 — -48

25 — 25 — 41 — 41 — 9 TS2 10B — -41 — 25

B5 (TZ) SDRA 8T 7 — SF

B16 — SE — WN ROT 5T 4

44B/F5 AIC — ZVR

ZYQ — ZPD

III GLMN L KEY 5 4 6A — III GLMX L KEY 5 4 6B — ZYR — ZPC — 4 5 ZQO GLIM L KEY 6B ZPD

B5 MKTI 6B 5 — ZVC — ZYQ — ZYR — ZPD — ZYR

ZVB — 137 AIC 10 — ZVB — 115E7 AIC — OTT 54B/F3

B8 — (M) KVG3 10T 9 — (M) VER6 (M) 7T 6 — OR — 60 LLPV ND 9 ND — OR — 25 TS4 12B 11 — MT19 — MT10 — MT19,20 — -48

YF — YF

B32 — 98 SKAL L KEY 3 4A OR 4C — 98 KSK 12 — DO

61A0 OLT

MT 2L — MT21 LRS — MT27 — MT22 — -48

B34 — 97 NTLS L KEY 2 3A — OZ — FP — 97 MCI6 4B 3 — FP — NTLS

DP — DP — 25 TS2 7 8B

58 2LN 7 8T — OZ — DP — FP

B34 LPNA 12T 11 — 178 — NF — NA DL4 L KEY 6B 5 4 — NF

B34 MCI6 6B 5 — 97

MDC (ETS)

MH DL6 L KEY B7 2 3B — 25 TS5 2B 1 — MH — NF — NF — MT25 — MT — MT25 — -48

NC

MH DL3 L KEY B7 2 3A — TO DAS ETS MT25 — ZLL

MH DL6 L KEY B7 2 3C — 25 TS5 4B 3 — MH — MT26 — MT25 — MT26 — -48

TO DAS ETS MT26 — ZLL

ZTZ LLPA 2 — 60 LLP3 6B 5

B34 LPNB 12 — 178 — NB

B34 MCI6 2B 1 — 97 — NF — ZJF — NA AIS L KEY 5 4 6D — NA DL4 L KEY 5 4 6C — ZJK — NB — NF — ZJT — ZJT — LLPT — MTI7 — MT2! — -48

ZJS

ZJF — ZJK — NF — MT23 — MT- — MT23 — -48

ZJF

3 — ZJD AICT

TO DAS ETS AIS — ZLL — NF

BELL LABORATORIES	MASTER TEST CONTROL CIRCUIT		
SD-25800-01	DWG SIZE 6S		
B8D	ISSUE 102B		

PRINTED IN U.S.A.

FS 10
NO TEST CONNECTOR CONTROL

MTFC CKT

DT OR COMPL MKR CKT

LINE LINK CKT

NO TEST CONN CKT

TRANSFER LINE LINK CKT

TRANSFER LINE LINK CKT

2-WIRE NO TEST CONNECTOR CKT

2-WIRE NO TEST CONNECTOR CKT OR ACD LINE LINK CKT

4-WIRE NO TEST CONNECTOR CKT

48/G0

528/D9

ISSUE 9SA

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B9

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-810A

FS IIA
MASTER TEST CONNECTION CHECK

MASTER TEST FRAME TELEPHONE, KEY AND LAMP CKT

TTC

TRUNK TEST CKT

3DC

-48

6B/DO

BI KR NI

3 4T 2T 1

MARKER CKT

INTERMEDIATE COMPLETING MARKER

MT3 MT42

FIRST COMPLETING MARKER

MT3 MT42

LAST COMPLETING MARKER

MT42 MT3

MTFC CKT

ARTC

MT38

RR MT42

C36R MT8

C37L MT8A

T36R MT10

C38R MT9

MT24

C37R MT14

C48R MT4

T19L MT2

C19R MT12

MT1

MT17

ACDA ACDI 120 5 120 ZLI ART

TRUNK TEST CKT

CDND L KEY 4 5C

CDDT L KEY 4 5D

BIL ZLI ZLH 120

SIG U L 700 BI -48

SIG 8

3DC 102 3DC B40 8

NI 103 CT 3DC L KEY 2 3A 103 102 3DC U L 700 B41 -48

82 KRI 3 4B 120 SIG

51A/G1

MT5K

MT6K

MT38K CO TSII 7 8T CU BA

1 105 INH L KEY 2B

MT8K TS3 3 4B 25 YF MT8K

BA CZ BA ZYV ZYW ZQC ZQB ZQC

MT4K ZXO TSI3 9 10T 2 122 TSST ZYV

140 RTFA IU 2U 2450 B81 -48

140 RTFC 12

140 3D DOC L KEY 2 1

KJSQ MECI MC -48

108/H1

MT10K TS3 9 10B 25 YF MT10K

EBH L KEY 2C 1

PBXH L KEY 1 2D

DH 1 2T MKT2 DH

120

MT9K TS5 11 12B 25 YF MT9K

VF VG VF

11 TGTI

MT3K TS5 9 10B 25 YF MT3K

VG WSD 10 11T

1 3A 2 NTFS L KEY

VF VG VF

2B 1 TKS

158 4 PMST

3 SIG

3B 2 FS L KEY 1

120

MT2K TS5 7 8B 25 YF MT2K

KOS 2 3T 8

8 OSS L KEY 2A 1 YK YK 8

YJ

35

MT1K TS4 3 4B 25 YF MT1K

8 35 OSS L KEY 2A 1

ZTE

ZXO TSI3 ZTF MKT4 ZTG ITI

MT7K 7 8T 1 1

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S 2

SD-25800-01-810A

ISSUE 103A

DRAWING ISSUE 70A 73D 74A 78D

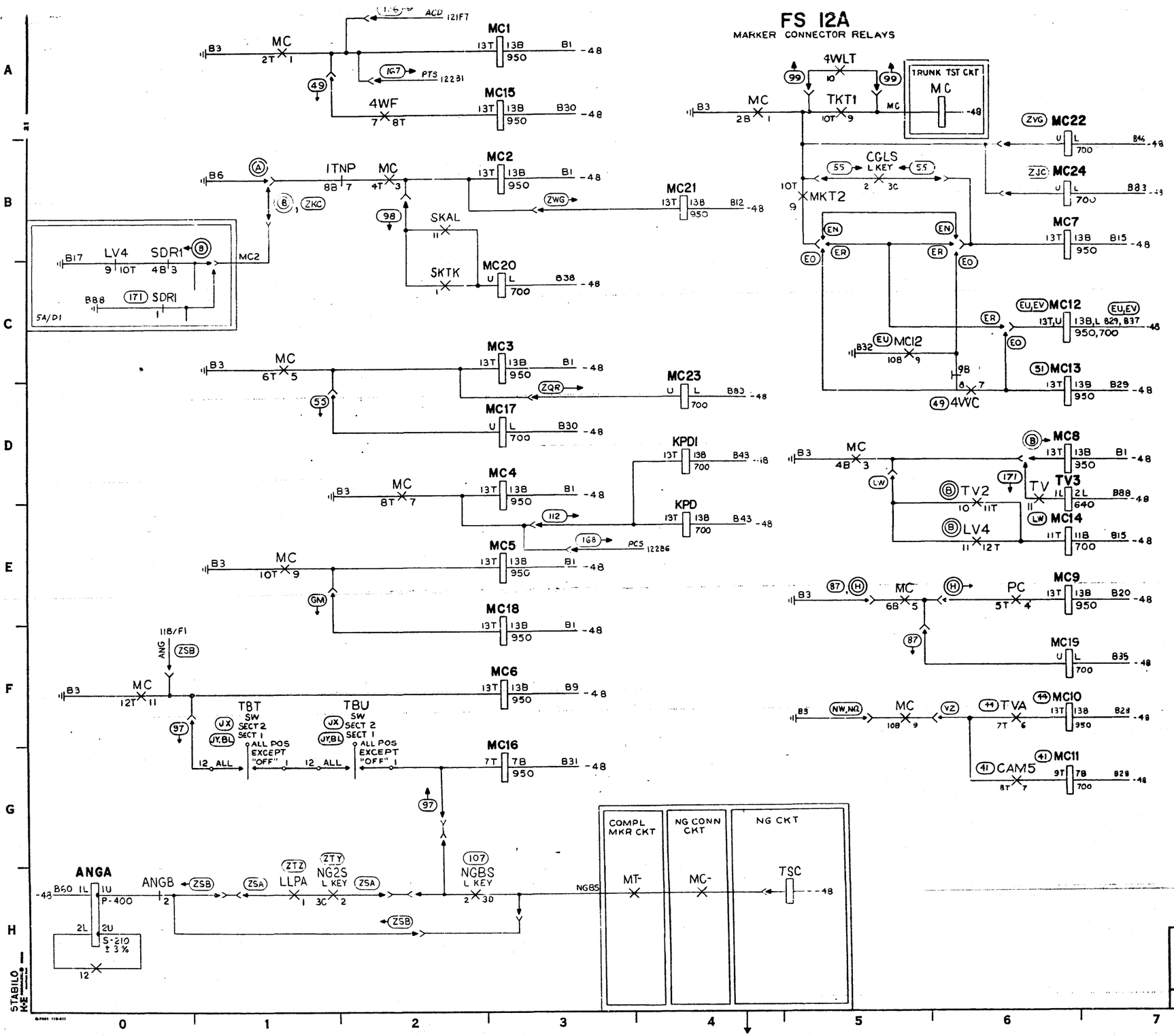
FS 11B
JUNCTOR SEQUENCE CONTROL

MARKER CKT
MTFC CKT
MASTER TEST FRAME VOLTMETER CKT
MASTER TEST FRAME TEST TRUNK FROM LOCAL TEST DESK
MASTER TEST CONTROL CIRCUIT

JF JSQ SW SECT 1 NBRDG
KX JSQ0-5 L KEY
JSQ SW SECT 2 NBRDG
JSQ5 L KEY
JSQ4 L KEY
JSQ3 L KEY
JSQ2 L KEY
JSQ1 L KEY
JSQC L KEY
KJSQ
MT8K
KCH
MT17
MT-
SQ1 L KEY
JSQ1
JSQ0
JL0
JLE
J1
J4
TS3
TS L KEY
KTS
NTTS L KEY
CHT L KEY
TSK
XTSK
MC6
FI
NTB
NTC
MFCI
RAC
TVT
TV2
TVTI
FAB L KEY
FAA L KEY
TSA L KEY
TSQ SW SECT 2
KTSQA
KTSQ
MC
TS
MFCI
PCI
NGBS
NHO
COSI, DOSI, HOSI, ROSI
HTR
RTC2
CII
AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT
MTFC CKT AND TRANSVERTER CKT
TRANSVERTER CKT OR CAMA TRANSVERTER CKT OR PROGRAM CONTROLLED (ANI AND CAMA) TRANSVERTER CKT
FATC CKT (FOR AREAS 10,11 & 12, & MARKER X)
FATC CKT (FOR AREAS 7,8 & 9, & MARKER X)
FATC CKT (FOR AREAS 4,5 & 6, & MARKER X)
FATC CKT (FOR AREAS 1,2 & 3, & MARKER X)
TO OTHER CONNECTORS FOR SAME AREAS ASSOCIATED WITH OTHER MARKERS

BELL TELEPHONE LABORATORIES INCORPORATED
SD-25800-01-B108
ISSUE 98B
DRAWING ISSUE 78D

FS 12A
MARKER CONNECTOR RELAYS



SD-25800-01-B11B

FS 12B
MARKER CONTROL

MTFC CKT

MARKER CKT

MSI 6 7B G — ONX

MCI 6B 5 DTK — DTK -48

ACD MKR ONLY

DT OR ACD MKR

ZSB ANGB -48 B60 L U 270 — ZSB ANGB 12 — ZQT ANGC 10 — ZSB ANGA 10 — ANGB 33B/H2

MC 12T 11 — ZSB ANG — 11A/F0

SLC — MT56 — NGC — GB

ZSB ANGA 8 — ZQT ANGC 8

ZQT ANGC -48 B60 1L 1U P-400 2U 2L S-210 ± 3% 12 — ZSB ANGA 2 — ZQT — B65

SLCK — SLCI — MT56

MTFC CKT

ECN — ECN -48

PD 1 2 OCN L KEY 3D — OCN — OCN -48

UD — UE

UE — OCN — MC2 3 4T

39A/CO

COMPLETING MARKER

ACD MKR ONLY

DT OF ACD MKR

B17 TV3 2 3B — B

B88 171 TVI 2 — A

MC2 68 5 — MSI 2 3B 1 — 156 ACD3 12 — DRGK

ZLL — ZPE — CKG2 — ZPE

13A/GO — N VER3 B7 8T 7 — ZLL VER 167 G ⏚B3

1 56 ATNT — 9 167 KIA 4 — 167 K2A — ZLK

ZLL — CKGI

CKGI,2 -48

COMPLETING MKR CKT

TQ — CKGI 6 7T — TP — ITNP — TQ — TTR 1 2B — CKG 6T 68 1500 BI -48

TP — CKG — 7B/41

120 CLK -48 BI 2U 1U 640 — ZZW CLK

TCK -48

ACD MKR CKT

B29 24 MTT 48 3 — CLK — MC2 5 6T — 12 — 48B/A4

JACK, LAMP & KEY CKT

COMPLETING MARKER CKT

B66 140 RTFD 4 — ZUA N2 4 — 140 DOC L KEY 5 6A — ZQC RTT — RTT -48

140 TGB L KEY 5 6B

RT SW SECT. 1 — 12 ALL 0-9 1-10 0-9

SECT. 2 — 12 ALL 0-9 1-10 10-19

SECT. 3 — 12 ALL 0-9 1-10 20-29

DOC L KEY 2 3A — TGB L KEY 2 3B

RTFI L KEY 1 2 3A — RTF2 L KEY 1 2 3B

C(00-29) — CRT L KEY — RTCA- -48

MTFC CKT

8C/A2 — 140 TS — MTFC CKT — TS

RTF — RTFD 3 — RTF 1 2

B66 140 RTFA 12 — 140 RTFB 1L 2L 2450 B81 -48

B66 140 RTFB 4 — 140 RTFC 1U 2U 640 B81 -48

140 RTFD -48 B81 2L 1L 640 — 140 RTFC 8 — RTC — RTC2

B46 ZZK KR3 7 — ZQD — ZQC 1

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S — (2) — SD-25800-01-B11B

ISSUE 103A

DRAWING ISSUE 81A 80D 79A 78D

HIGGINS 4465 H-E

PART OF FS 13

CALLED NUMBER CONTROL

106 WN L KEY 2 3A 1

106 TTL10 U L B42 700 -48

102 3DC 4

102 TTL9 U L B41 700 -48

TTL1 13T 13B B5 950 -48

IAO B6 8T 7

ITNP B6 10B 9

ITP B6 8T 7 ZO

ZYU MC5 ZYU 10B 9

TTL 2T 1

TTL L KEY 2 3B 1

BP BP MX MX RI BC BB ON ON

55 CNTX L KEY 5 4 6A LT LT LT

ZWM ZWN ZWN 11 135 WBH

CR CQ CR

135 TTLI3 U L B72 700 -48

55 TRF MR MR 2 1

55 TRF L KEY 2 1 3B

56 TTL8 U L B30 700 -48 MS

MQ MR GV GW

86 CTL2 L KEY 2 3A 1

86 CTL2 U L B34 700 -48

86 TL5C U L B34 700 -48

86 CTLC L KEY 2 3B 1

86 TL5B U L B34 700 -48

86 CTLB L KEY 2 3A 1 GW GV

55 TTL5 U L B30 700 -48 LT GV

49 TTL3 13T 13B B29 950 -48

9T 8 7 49 4WA

TTL7 U L B30 700 -48

55 CDN L KEY 6A 5 4 PP PP PP 56 56

TTL6 U L B30 700 -48

TRK TEST CKT CTL -48

55 CNTX L KEY 3A 2 1 ZXT OQ OQ OQ CTL

55 NAH L KEY ZXU B33 4 5C LV LV

OGT B6 8B 7

MISC B6 2B 1

ITDO B6 8T 7

ZYQ MC5 ZYQ 4B 3

TTL 4T 3

ZJU ZYR ZYR ZJV ZJV 60,178 LLP2 8,10 9T,11T 7,9 ZJV

TTL L KEY 2 3C 1

LU LV

TTL2 13T 13B B5 950 -48

135 TTL12 U L B72 700 -48

135 WB 3

49 TTL4 13T 13B B29 950 -48

49 4WA 6T 5 4

MX RI MX ZWM ZWN

INC B5 6T 5

ORIG B5 6T 5

PCS B26 8B 7 H

LT B6 48,6B 3,5 J,K

LV2 B17 1 2T B

LV 2B 1

B6 A ZKC

BB L KEY 2 3D 1

BB 13T 13B B5 950 -48

49 BB1 13T 13B B29 950 -48

49 4WA 3T 2 1

156 ACD2 B2 4

41 IMTI B31 4T 3

41 CAM3 VZ VZ 5 6B

SDRI B17 1 2B B

ZKZ 40B/FO A SDR 8T 7

MC4 12B 11

2 KRC L KEY 3D

2 KY L KEY 3C

K 13T 13B B4 950 -48

A B 22 IMS 8T 7

B5 B8B SDRI 2 171

B8B TV 3 171

B17 TV 6T 5 LV6

3T 2 1 B

7 8T MC8

7 8B LV3

LV4 B17 5 6T

LV3 10B 9

MC8 10T 9

SA SB IL DCN IL 12 1 2B IK IK SA SB B

RT MX MX

N VER3 11T 9B B5 700 -48

100 VERA 10T 10B B27 700 -48

49 VERIO 11T 9B B29 700 -48

68 5 4 49 4WB

N KORI 11T 11B B16 950 -48

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

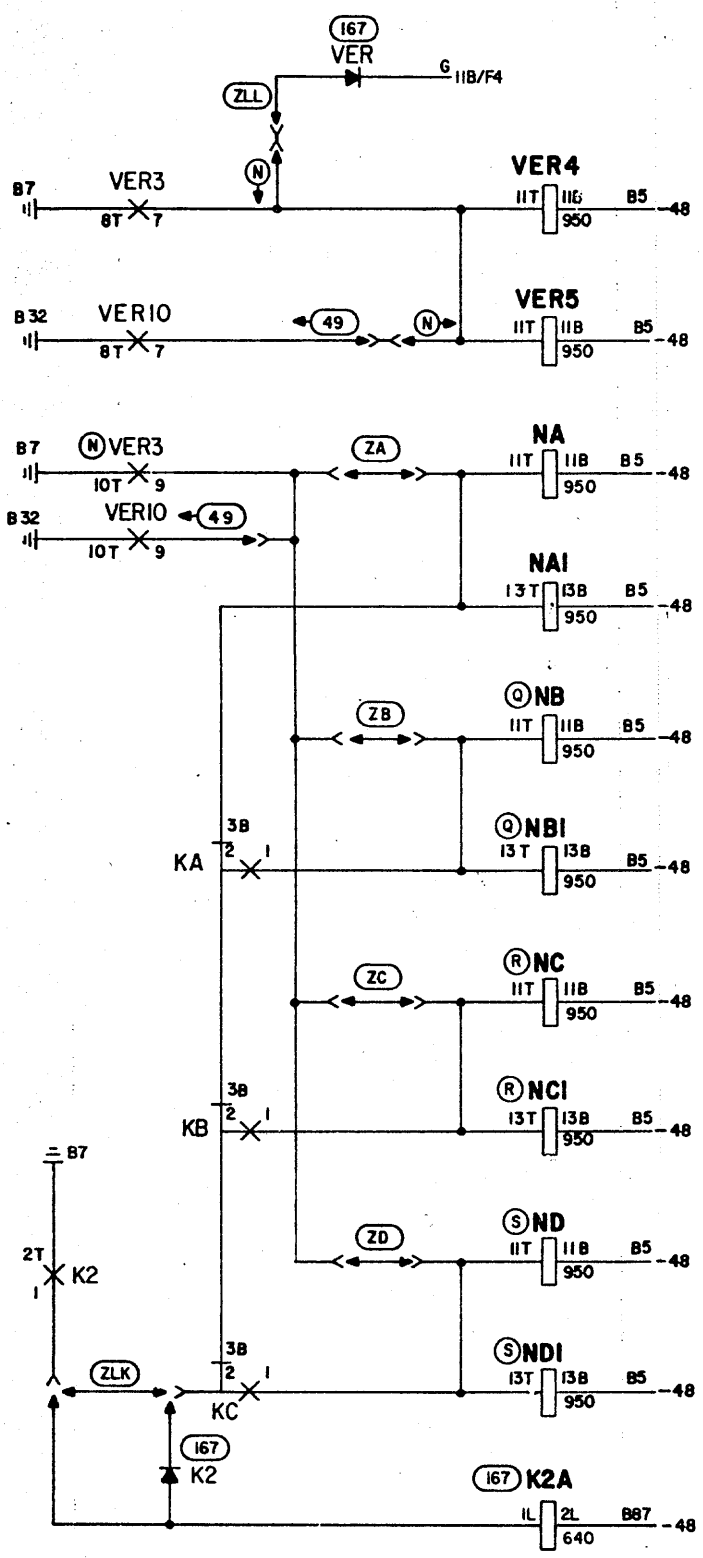
65 (2)

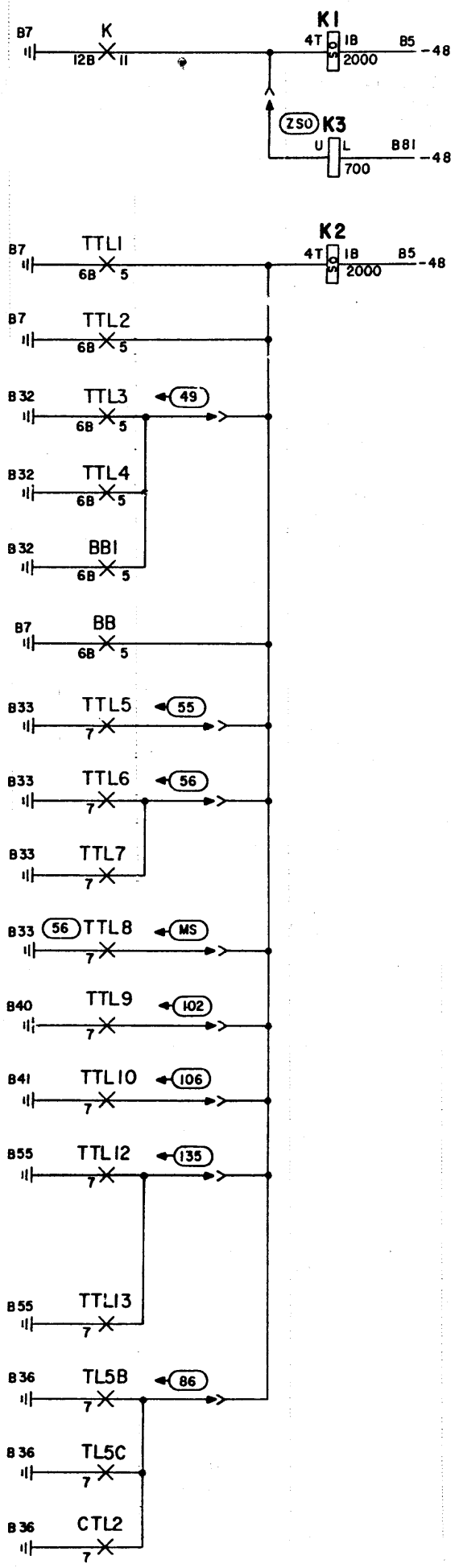
SD-25800-01-B12

ISSUE 102B

DRAWING ISSUE 69A 12A 11D 9BA 8B0

PART OF FS 13
CALLED NUMBER CONTROL

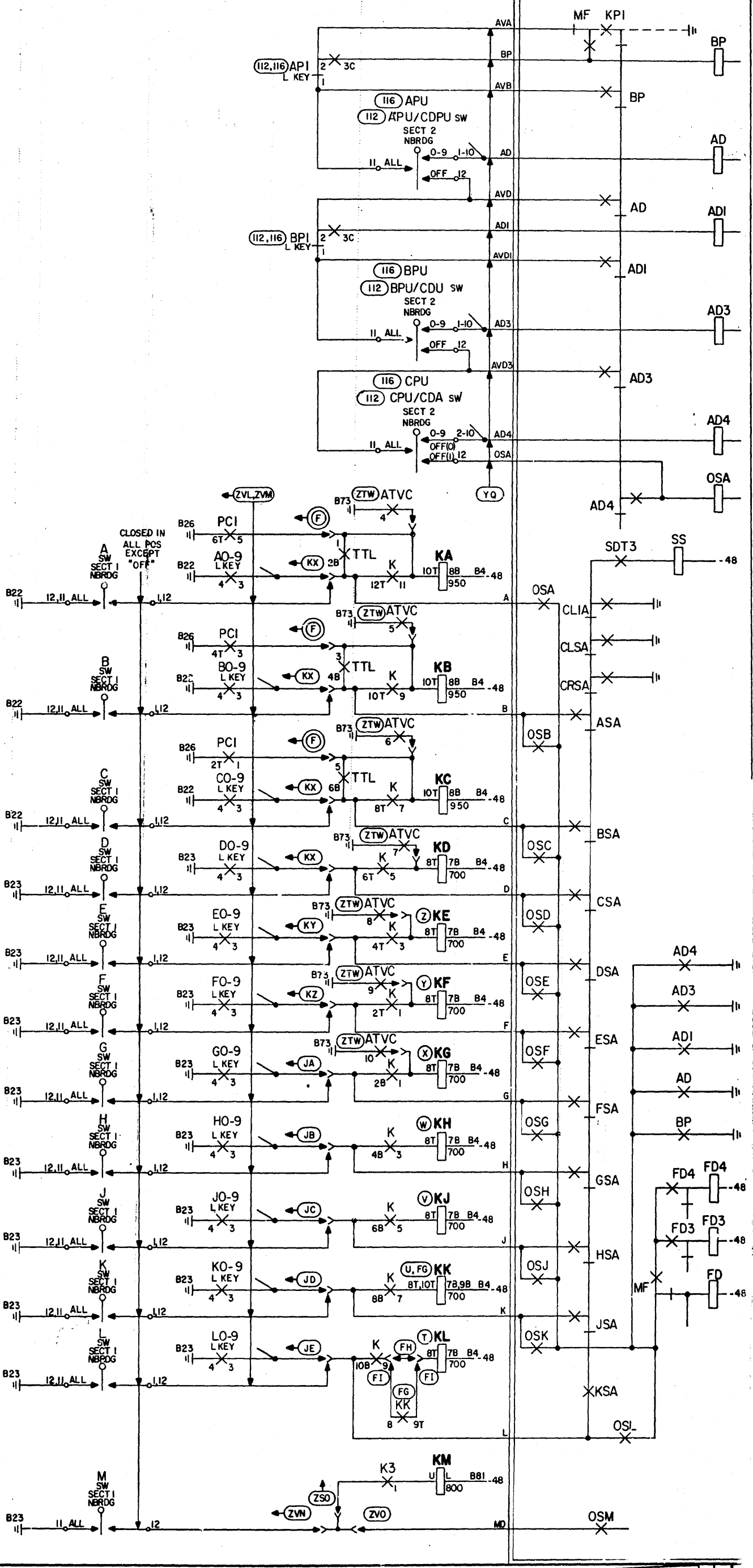




SD-25800-01-B13B

PART OF FS 13
CALLED NUMBER CONTROL

AUTO. MONITOR REG & SDR TST CKT



MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

(2)

SD-25800-01-B13B

85A

DRAWING ISSUE

25800-01-B13B

PART OF FS 14
CALLED NUMBER SELECTOR

NOTE:
1.(A-)-(D-) KEYS CARRY LETTER DESIGNATIONS AS FOLLOWS:
0.- 5.JKL
1.- 6.MNO
2.ABC 7.PRS
3.DEF 8.TUV
4.GHI 9.WXY

BELL TELEPHONE LABORATORIES INCORPORATED

65

SD-25800-01-8148

MASTER TEST CONTROL CIRCUIT (2)

ISSUE 89A

DRAWING SERIES

PART OF FS 14

CALLED NUMBER SELECTOR

SEE NOTE 501

SEE NOTE 503

14A/H4

SD-25800-01-B15A

STABILO

PART OF FS 14
CALLED NUMBER SELECTION

E SW SECT. 3 — SECT. 2 — SEE NOTE 1

E1 L KEY 5 | E2 L KEY 5 | E4 L KEY 5 | E7 L KEY
E1 L KEY 5 | E3 L KEY 5 | E5 L KEY 5 | E8 L KEY
E2 L KEY 7 | E3 L KEY 5 | E6 L KEY 5 | E9 L KEY
E4 L KEY 7 | E5 L KEY 7 | E6 L KEY 5 | E0 L KEY
E7 L KEY 7 | E8 L KEY 7 | E9 L KEY 7 | E0 L KEY

ATVB B73 9 AEA; B73 10 AEB — SEE NOTE 328 — ADE0 ADE1 ADE2 ADE4 ADE7 — ZTW

F SW F0-9 L KEY — ZVL, ZVM — KZ
ATVB B73 11 AFA; ATVC B73 3 AFB — SEE NOTE 328 — ADF0 ADF1 ADF2 ADF4 ADF7 — ZTW

G SW G0-9 L KEY — ZVL, ZVM — JA
ATVC B73 1 AGA; B73 2 AGB — SEE NOTE 328 — ADG0 ADG1 ADG2 ADG4 ADG7 — ZTW

H SW H0-9 L KEY — ZVL, ZVM — JB

J SW J0-9 L KEY — ZVL, ZVM — JC

K SW K0-9 L KEY — ZVL, ZVM — JD

ZVL, ZVM — KY

14C9

U0,1,2,4,7 | T0,1,2,4,7 | H0,1,2,4,7 | END 7

E0,1,2,4,7 | F0,1,2,4,7 | G0,1,2,4,7 | H0,1,2,4,7 | J0,1,2,4,7 | K0,1,2,4,7

Z KE B | Q NB1 C | R NC1 D | S ND D | Y KF B | R NC1 C | S ND1 D | X KG B | S ND1 C | W KH B | V KJ B | U KK B

KD 3T 2 1 — 11 12T NA1 87

Z KE 3T 2 1 — 11 12T Q NB1 87

Y KF 3T 2 1 — 11 12T R NC1 87

X KG 3T 2 1 — 11 12T S ND1 87

W KH 3T 2 1 — 11 12T V KJ 87

U KK 3T 2 1 — CKG

15B/EO

AUTO. MON REG & SDR TEST CKT — E0,1,2,4,7 - K0,1,2,4,7 - 48

MTFC CKT

COMPL MKR CKT — E0,1,2,4,7 - G0,1,2,4,7 - 48

CAMA TV CKT — E0,1,2,4,7 G0,1,2,4,7 - 48

DAS ETS (CAMA)

ANI TV CKT — (LEADS USED FOR TROUBLE RECORDS ONLY)

TV CKT (LAMA)

CAMA TV CKT — H0,1,2,4 - 48

DAS ETS (CAMA)

COMPL MKR CKT — H0,1,2,4 - 48 — H7 - 48

CAMA TV CKT — H7 - 48

DAS ETS (CAMA)

ANI TV CKT — (LEAD USED FOR TROUBLE RECORDS ONLY)

TV CKT (LAMA)

CAMA TV CKT — J0,1,2,4,7 K0,1,2,4,7 - 48

DAS ETS (CAMA)

COMPL MKR CKT — J0,1,2,4,7 K0,1,2,4,7 - 48

NOTE:
1. (E-)-(K-) KEYS CARRY LETTER DESIGNATIONS AS FOLLOWS:
0. - 5. JKL
1. - 6. MNO
2. ABC 7. PRS
3. DEF 8. TUV
4. GHI 9. WXY

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S (2)

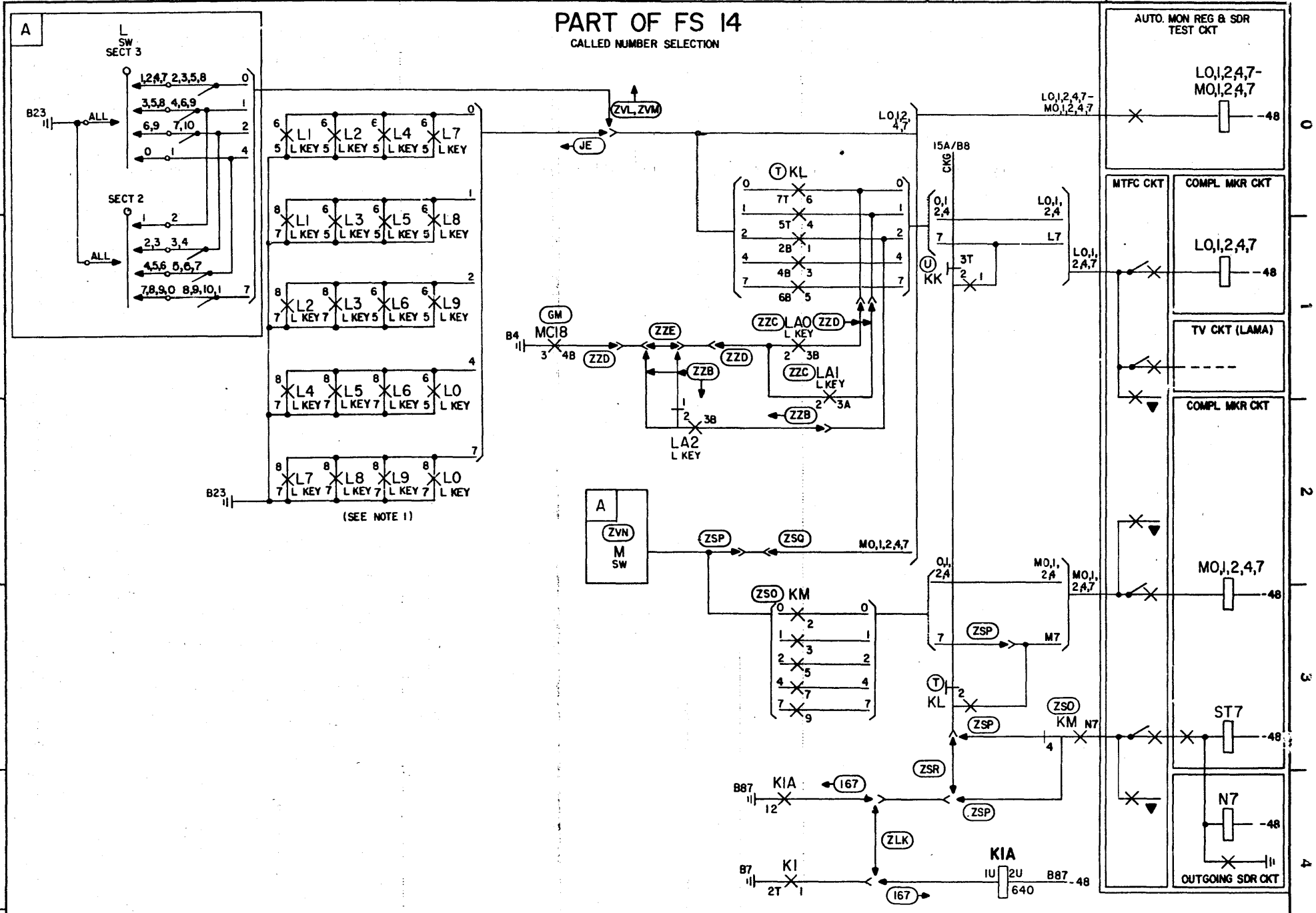
SD-25800-01-B15A

107A DRAWING ISSUE

SD-25800-01-B158

PART OF FS 14

CALLED NUMBER SELECTION



NOTES:

1. (L-) KEYS CARRY LETTER DESIGNATIONS AS FOLLOWS:

0. -	5. JKL
1. -	6. MNO
2. ABC	7. PRS
3. DEF	8. TUV
4. GHI	9. WXY

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S 2

SD-25800-01-B158

ISSUE 107A

DRAWING ISSUE 780

SD-25800-01-816

STABILO K+E

TEST CKT FOR REGISTER AND CAMA SENDER CIRCUITS

(66) FS 15 (MFR. DISC.)
CALLED NO. FREQUENCY SHIFT PULSING, REGISTER TESTS

FSP

FSPA SW
SECT. 1
SECT. 2
SECT. 3

FSPB SW
FSPC SW
FSPD SW
FSPE SW
FSPF SW
FSPG SW
FSPH SW
FSPJ SW
FSPK SW

SKD SW SECT. 1

11 ALL
11-20
OFF 12

B0,1,2,4,7,10 B2
1BD
6BD
3BD
B21
B22
B11 11 16
B18 18 20
B12 12 15
B14 14 19
B13 13 17
C21

0,1,2,4,7,10 A0,1,2,4,7,10 AS
BO,1,2,4,7,10 BS
CO,1,2,4,7,10 CS
DO,1,2,4,7,10 DS
EO,1,2,4,7,10 ES
FO,1,2,4,7,10 FS
GO,1,2,4,7,10 GS
HO,1,2,4,7,10 HS
JO,1,2,4,7,10 JS
KO,1,2,4,7,10 KS

TEST CKT FOR REGISTER AND CAMA SENDER CIRCUITS

-48 -48
EVO,1, 2,4,7,10
ODO,1, 2,4,7,10
0,1,2, 4,10
0,2
KP1
AD 1,4,10
0,1,2
AD
2KPA 4,10
0,1,2 4,10
KP
2KPA
2KP
AS

G2 BO,1,2,4,7,10
BS

7D
1-10 L KEY -48
10D
STS

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

65 (2) SD-25800-01-816

ISSUE 106B

DRAWING ISSUE WB

SD-25800-01-B17

STABILO K+E

(66) FS16 (MFR. DISC.)

CALLED NO.

FREQUENCY SHIFT PULSING, SENDER TESTS

SENDER TEST CKT

SENDER TEST CKT

FSPA

A7 A4 A2 A0 A1

B7 B4 B2 B0 B1

C7 C4 C2 C0 C1

D7 D4 D2 D0 D1

E7 E4 E2 E0 E1

F7 F4 F2 F0 F1

G7 G4 G2 G0 G1

H7 H4 H2 H0 H1

J7 J4 J2 J0 J1

K7 K4 K2 K0 K1

L7 L4 L2 L0 L1

1-10A

FSP IN 11 ALL

OFF 12

AET E7

BET E7

CET E7

DET E7

EET E7

FET E7

GET E7

HET E7

JET E7

KET E7

LET E7

M7

OUT

FSPA SW SECT. 4 — 0-9 1-10

FSPA SW SECT. 5 — 0-9 1-10

CLOSED IN ALL POS EXCEPT

FSPA SW SECT. 6

0 1 2 8 9 10 12 OFF

FSPB SW

FSPC SW

FSPD SW

FSPE SW

FSPF SW

FSPG SW

FSPH SW

FSPJ SW

FSPK SW

FSPL SW

K O-9 NM

AK AO-9 NM

BK BO-9 NM

CK CO-9 NM

DK DO-9 NM

EK EO-9 NM

FK FO-9 NM

GK GO-9 NM

HK HO-9 NM

JK JO-9 NM

KK KO-9 NM

LK LO-9 NM

A1 A0 A2 A1 A4 A2 A7 A4 A0 A7 A1

B- 2/5 8-

C- 2/5 C-

D- 2/5 D-

E- 2/5 E-

F- 2/5 F-

G- 2/5 G-

H- 2/5 H-

J- 2/5 J-

K- 2/5 K-

L- 2/5 L-

FSP TM OK RT3 TBL1 48

BSA

RT1 RT2 F2T

RT3 F2NO

1-10 7-10 FR TBL1 OK 48

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B17

ISSUE 106B

SD-25800-01-B18A

AUTOMATIC MONITOR REGISTER AND SENDER TEST CIRCUIT

FS 17
CALLED NUMBER

OSM — MK — ZVN — ZVO — A — M SW — ZVN — SSR — ZVO — SSR — -48

OSL — FDB — LK — XI — ZVL, ZVM — A — L SW SECT 4 NBRDG — 12 ALL 0-9 1-10 10 11 — L 0-9 L KEY 2 1 — JE — ZVL, ZVM — JE — 0-9 — XI — GR — MFS — 0-9F — MF — -48

OSK — FDB — KK — JD — A — K SW K0-9 L KEY — JD — ZVM

OSJ — FDB — JK — JC — A — J SW J0-9 L KEY — JC

OSH — FDB — HK — JB — A — H SW H0-9 L KEY — JB

OSG — FDB — GK — JA — A — G SW G0-9 L KEY — JA

OSF — FDA — FK — KZ — A — F SW F0-9 L KEY — KZ

OSE — FDA — EK — KY — A — E SW E0-9 L KEY — KY — YQ

ZVL, ZVM — A — D SW SECT 4 NBRDG — 12 ALL 0-9 1-10 10 11 — D 0-9 L KEY 2 1 — ZVL, ZVM — KX

OSD — FDA — DK — DK — KX — D0-9 — DA0-9 — GR

DIO — ZVM

OSC — FDA — CK — CK — KX — A — C SW C0-9 L KEY — KX — C0-9 — CA0-9 — GR — CIO — ZVM

OSB — FDA — BK — BK — KX — A — B SW B0-9 L KEY — KX — B0-9 — BA0-9 — GR — BIO — ZVM

OSA — FDA — AK — AK — KX — A — A SW A0-9 L KEY — KX — A0-9 — AA0-9 — GR — AIO — ZVM

18C/C5-G5

(116) (112) CPU SW / CPU/CDA SW SECT 6 NBRDG — AD4 — A4K — YQ — 11 ALL — 0 1 — 1 2 — 2-5 3-6 — 6-9 7-10 — 0-9

(116) (112) BPU SW / BPU/CDU SW SECT 6 NBRDG — AD3 — A3K — YQ — 11 ALL — 0 1 — 1 2 — 2-5 3-6 — 6-9 7-10

(112,116) BPI L KEY — AD1 — A1K — YQ — 2 3B

(116) (112) APU SW / APU/CDPU SW SECT 6 NBRDG — AD — ADK — YQ — 11 ALL — 0-5 1-6 — 6-9 7-10 — YQ — APU0-5

(112) CPTI L KEY — B42 — 5 6D — YQ — CPTI — CPTI — -48

(112,116) API L KEY — BP — BPK — YQ — 2 3B

FDA — MF — DP

AUTOMATIC MONITOR REGISTER AND SENDER TEST CIRCUIT — SSR — -48 — GR — MFS — 0-9F — MF — -48 — -48 — DP — DPI — 0 0' RI — 0' 0 — 9 9' RI — 9' 9 — 1 1' RI — 1' 1

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
65 (2) SD-25800-01-B18A
73

DRAWING ISSUE 630 BM 73D

FS 95
PBX SLEEVE CONTROL

NO. GR CONN CKT
NO. GR CKT
COML MKR CKT
LINE, LINE LINK & MKR CONN CONT CKT
NS
LS
OP
SEE NOTE 313
-48
HOLD
2B
N
ZVL, ZVM
D
SW
KX
DO-9
L KEY
18C/G4, G7
58 2LN
5 6B
OS
DK
OR
NG
ZOZ
98 60 LLPK
8
7
ZYM, ZYN
NST
B8
4020
4k Ω
VER7
12B
M
SLO-9
MTFC CKT
MT19
SO-9
A
0 VER7 0
1 2T 1
1 3 4T 1
2 5 6T 2
3 7 8T 3
4 9 10T 4
5 1 2B 5
6 3 4B 6
7 5 6B 7
8 7 8B 8
9 9 10B 9
JF
OZ
ZJW
S SW SECT 3 NBRDG
1-10 0-9 ALL 12
L KEY
3 4
0-9
0 1 2 3 4 5 6 7 8 9
MT10
MT22
SAC
SLO-9
SA0-9
2LO-9
2LA
2L
SPL2
SPH
178 LPNB 0,1,2,4,7
1-5
ZNJ
KPBX
S SW SECT 4 NBRDG
1-10 0-9 ALL 12
98 KSK
99 SKAL
R
B38
DJ
DI
B18
ND
97 NTLS L KEY
3D
ZYN NST
ZYN NSTI
U L
B44
270
700
UAK
5B
6T
4T
3B
B30
SA0
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
SB0
SB1
SB2
SB3
SB4
SB5
SB6
SB7
SB8
SB9
ZJW
PLLP
173
7-11
ZLL
TSS-9
45F9
MTFC CKT
POTS
TERT SW
POTS
KTBS
6
8T 7
30EI
NH
NT
MT-
25 TS4
2LI
12T OZ
58
SAC 2LN MT22
SLB
ND
ZKI PLLP L KEY
2C 1
ZKE
ZKD
PBXH L KEY
4 5A
EBH L KEY
4 5B
DP
DH
60 LLP3
5 6T
MKTI
7 8T
8A/E8
KPBX
MC3
7 8B
PBXH L KEY
4 5D
EBH L KEY
4 5C
2
3B 1
W
Z
4T 4B 700
6T 4B 700
PBX 500
500
B16
13T 13B B16 950
FLGI
SLCK
MTFC CKT
MC3
3 4B
10T 9
B5
DD
SK 85HI
98
5A/H5
VER7
2LN
3T 2
1
MASTER TEST CONTROL CIRCUIT
BELL LABORATORIES
SD-25800-01-
DWG SIZE
SS
ISSUE
1068
8188

FS 96
TRANSVERTER LINE VERIFICATION

TRANSLATOR CKT | TRANSVERTER CKT OR ANI TRANSVERTER CKT | MTFC CKT

THO-9 | HNO-9 | TO-9 | UO-9 | DNK

B TH 0 28 1 | 1 48 3 | 2 68 5 | 3 88 7 | 4 108 9 | 5 2T 1 | 6 4T 3 | 7 6T 5 | 8 8T 7 | 9 10T 9

B HN | B T | B U

18A/C5

A SW SECT 4 NBRDG — H0 0-9 | ALL 12 | 11 10 — A0-9 L KEY 1 2

B SW B0-9 L KEY

C SW C0-9 L KEY

D SW D0-9 L KEY

ZVL,ZVM | KX | ZVM | 20

A0-9 | A10 | B0-9 | B10 | C0-9 | C10 | D0-9 | D10

AK 18A/F6 | BK 18A/F5 | CK 18A/F5 | DK 18A/F4 | DK 18B/B1 | DC-9 18B/D1

LV8 THK 1 2T 28 4T 48 700 B22 -48

LV8 HK 5 6T 28 4T 48 700 B22 -48

LV8 TK 3 4T 28 4T 48 700 B22 -48

LV8 UK 1 2T 28 4T 48 700 B22 -48

DNK U SD L B64 -48 — 1000 ±5% — 9

TVTI

KR (127) ZZK KR3 B46 — 98E4

B28 (20) LV7 2T 1 — (20) T 13T 13B B23 -48 700 — (20) U 13T 13B B23 -48 700

B28 (20) LV7 4T 3 — (20) TH 13T 13B B23 -48 700 — (20) HN 13T 13B B23 -48 700

B28 (20) LV7 9B 8 — (20) LV8 7T 7B B22 -48 950

B50 (127) DNK 3 — (128) DNK

DRAWING ISSUE

550	DM
650	DM
670	A/C
730	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B18C

BELL TELEPHONE LABORATORIES INCORPORATED 6S

FS 18
OFFICE INDEX

TRANSLATOR CKT | TRANSVERTER CKT | MTFC CKT

OFTO-2 +130 -48

OFFO-9 +130 -48

OFTO-2

OFFO-9

(57) OFT2 L KEY

(57) OFTI L KEY

(20) LV7

(20) OFF 13T 13B 13A -48 700

OFF 4,5

OFF 0-3

(SEE NOTE 305)

OFF5 L KEY

OFF 4 L KEY

OFF 3 L KEY

OFF 2 L KEY

OFF 1 L KEY

OFF 0 L KEY

OFF 5

OFF 4

OFF 3

OFF 2

OFF 1

OFF 0

LV8 19A9

OFU SW SECT 1 1-6 0-5 ALL 12

OFU SW SECT 4 OFF 20-29 1-10 0-9 ALL 12

OFU SW SECT 3 OFF 10-19 1-10 0-9 ALL 12

OFU SW SECT 2 OFF 0-9 1-10 0-9 ALL 12

OFU SW SECT 5 NBRDG 1-10 0-9 ALL 12

OFT2 L KEY 3C

OFTI L KEY 3D

(DZ) AIDT 8T 7

(DX) OFTI L KEY 6A 68

(DX) OFT2 L KEY

(DZ) AIDT 6T 5

(DZ) AIDT 1 2B

(57) OII L KEY 3A 38

(57) OI2 L KEY

(27,154) MTCP 48.- 3,3

(KN,CF)

(CF)

(KN)

AIOD TRANSLATOR CONN CKT

AIOD TRANSLATOR CKT

OFGO-2 OFO-9 TO OTHER AIOD TRANSLATOR

OFU- OFU- 2/5

OFTO-2 OFTGO-2 OFO-2 OFO-2 TSTI

UOFO-9 TOFO-2 TOG

TST TST RRKI

(NQ) TCL SW SECT 2 NBRDG ALL 12

(ZUP) (JM) (CY) (ZVP) (ZUM,ZUO) LV8 19E4

ZVP IC-OBT L KEY 6 5

ZVP IC-OAT L KEY 6 5

PA,PB E L KEY 30 2 1

(20) LV8 OFK 4T 48 B22 -48 3 48 700

(JL) (NT) OFK

OBE OAE OBT OAT OBP OAP (ZTU)

(ZUP) 6D 4 5 (CY) E L KEY (ZVP)

(ZUP) 6A 4 5 (CY) E L KEY (ZVP)

(NT) OBT (ZVP) IC-OBT L KEY 8 7

(NT) OAT (ZVP) IC-OAT L KEY 8 7

(NT) OBP (ZVP) IC-OB L KEY 8 7

(NT) OAP (ZVP) IC-OA L KEY 8 7

IC SW SECT 6 NBRDG 1 OA 2 OB 3 OAT 4 OBT

IC SW SECT 5 NBRDG OA 1 OB 2 OAT 3 OBT 4

ALL 12 12 ALL

34A/DO,GI

(ZXG,ZXH) 828,827 (20) AIDT 1 2T

(20) TLLT L KEY 3A 2 1

(DZ) SLT (DZ) LLT

AIOD TRANSLATOR CKT

TNK TST TST TNK LLT LLT -48

DRAWING ISSUE

63D	G.E. WB JH
66A	JER AJC PW
690	EN
74A	
800	

ISSUE 85A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B19

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B19

SD-25800-01-B20A

FS 19A

CALLING LINE NUMBER,
LINE LINK LOCATION AND
INCOMING CLASS CONTROL

AUTOMATIC MONITOR
REG AND SENDER CKT
R5 R4 NAI

B17 (B) TV 10T 9 ZPQ (ZTV) (ZTW) ATVA 11 (ZTV)
ZPQ
B17 (B) LV4 1 2T (171) TV 4B 3 (B) LV3 (B) (ZTV)
B88 4
B5 ORIG 10T 9
B36 DTRI 2 (86)
B36 (87) LIK2 1 REC 6 7B (GJ)
B5
B17 SDRI (B) (A) 3 4T SDR 4B 3
B88 (171) SDRI 3 IMS 22 4B 3 22
VZ 10T 9 (41) CAM3
VZ
B5 INC 4T 3
B39 (AD) DAP 2
B34 (60) LLPV 1
B6 ITDO 10T 9
B6 IAO 10T 9
B6 ITP 10T 9 (Z0)
B33 ATNT 5 (36)
ZPH (ZPI) 11 BSNT 7 8 9T NTC
(ZJU) (60,178) LLP2 (ZJU)
ZJV 8 9B ZJV
7
ZVC
ZJV
ZUC
ZUD
ZUD
ZYP 109 REX 8 ZYP
ZYO
ZYP 208/E1 MISC
ZYO
9 10T OGT
B6
ZUD
ZUC
8T 7 MC4
(M) KF2 8 7 9T
BB
106 WN L KEY 2 1 BC 3D
BC
106 WRV L KEY 2 1 BC 3C
BC
BB
RI
MX
RI
6B 5 4 49 4WA MX
OF MX
OG
OF 6T 5 4 OG LQ TMI OG
93 (KA) KCN
(LX)
(LZ)
3 4 5B 44 TVA
MC4 6T 5
(IX)
45 (KCN) 13T 13B 950 B28 -48
41 (KCCN) U L 700 B28 -48
(IT)
KVFI 10T 8B 950 B7 -48
(IN) KLL U L 700 B33 -48
87 LITR 3
B31 45 KCN 10B 9 LX 7T 7B 950 B28 -48
(ZYI) LLS L KEY 5 6C (ZWH) 133 LLS U L 700 B1 -48
B21
KIC 13T 13B 950 B12 -48
(NT)
MC4 2T 1 (VX,YY)
KICI 13T 13B 950 B12 -48
106 OTL11 U L 700 B42 -48
(ZZ0)
OTL10 U L 700 B42 -48
(ZYF)
49 OTL3 13T 13B 950 B29 -48
49 OTL6 U L 700 B32 -48
(PY)
B2 156 ACD2 5
B8 KVG2 7 8B
B8 KVFI 1 2B
KFTU 11T 11B 950 B7 -48
(ZWM) (ZWN)
135 WTLHI 11 135 WROR 1 2 135 WBT8 8 (ZWN)
SEE NOTE 326
134 WRS2 L KEY 2 1 3C WR2 WRA00-39
139 WR00-39 1 2
139 WR00-39 U L 700
WRB00-39 WL00-39 136 WL(00-39) 12 WL
WBT8 6 WL -48 113F4
SEE NOTE 326
SEE NOTE 326
134 WRS1 L KEY 2 1 3D WR1
WR0
(LQ) TMI 8 7 9T LQ
OTL5 13T 13B 950 B5 -48
(LP)
102 OTL8 U L 700 B41 -48
(CR) 102 3DC 9
LP CQ
CR
OTL1 13T 13B 950 B7 -48
CQ
208/A5 OTL1

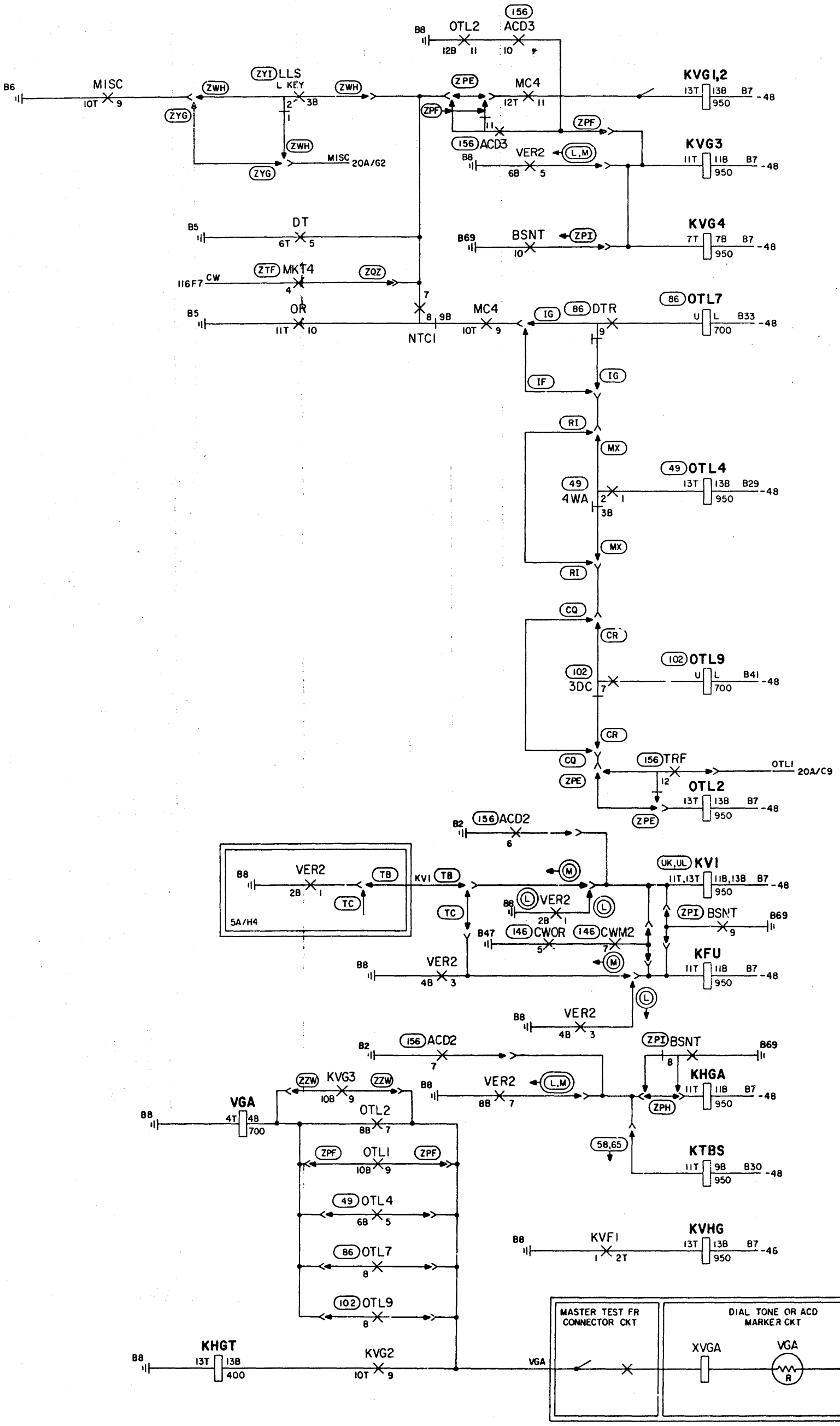
MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
6S
(2)
SD-25800-01-B20A
ISSUE 102B

DRAWING INDEX 63A 62D 74A 73D

SD-25800-01-B20B

FS 19B

CALLING LINE NUMBER,
LINE LINK LOCATION
AND INCOMING CLASS
CONTROL



MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B20B

98B ISSUE

DRAWING ISSUE 73D 74A 80D 82D

SD-25800-01-821

STABILO K-E

FS 20
CALLING NUMBER

AUTO. MON, REG & SDR TEST CKT

R5 R4 X1 (KB) (KA)

R5 R4 X2 (KB) (KA)

(45) CRX SW SECT. 1

1,2,4,7 2,3,5,8 0
3,5,8 4,6,9 1
6,9 7,10 2
0 1 4

SECT. 2

1 2
2,3 3,4
4-6 5-7
7-9,0 8-10,1 7

A 12 ALL
B 12 ALL

0,1, 2,4,7 KRO,1, 2,4,7 — KRO,1,2,4,7 — 48

(45) CRX SW SECT. 1

1,2,4 1,2,4 0
3,5 3,5 1
2
0 10 4

SECT. 2

1 1
2,3 2,3
4,5 4,5
0 10 7

12 ALL
12 ALL

0,1, 2,4,7

KACN (93) (LY) — B31 1, B31 2 — (45) A CNA SW — 0,1, 2,4,7 — OAO,1, 2,4,7 — KAO,1,2,4,7 — 48

KACN — B31 3, B31 4 — (45) A CNB SW — OBO,1, 2,4,7 — KBO,1,2,4,7 — 48

KACN — B31 5, B31 6 — (45) A CNC SW — OCAO,1, 2,4,7 — KCO,1,2,4,7 — 48

KACN — B31 7, B31 8 — (45) A CND SW — ODO,1, 2,4,7 — KDO,1,2,4,7 — 48

KACN — B31 9, B31 10 — (45) A CNE SW — OEO,1, 2,4,7 — KEO,1,2,4,7 — 48

KACN — B31 11, B31 12 — (45) A CNF SW — OFO,1, 2,4,7 — KFO,1,2,4,7 — 48

KACN — B31 13, B31 14 — (45) A CNG SW — OGO,1, 2,4,7 — KGO,1,2,4,7 — 48

(45) CRX SW SECT. 3

3,0 3,10
1,2,4,5 1,2,4,5

B28 12 ALL

(45) CRX SW SECT. 3

3,0 4,1

B28 12 ALL

1,2,4,5 2,3,5,6

(KA) (KB)

(KA) (LX) (45) KCN 128 11 (LX) (KA) — KH7 — KH7 — 48

(KB) (LY) (93) KACN 15 (LY) — NAI — R5 NAI — 48

(45) KCN B31 10T 9 A, B31 12T 11 B — (45) B CNA SW — 0,1, 2,4,7 — (LX) (LZ)

(45) KCN B31 6T 5 A, B31 8T 7 B — (45) B CNB SW — 0,1, 2,4,7 — (LX) (LZ)

(45) KCN B31 2T 1 A, B31 4T 3 B — (45) B CNC SW — 0,1, 2,4,7 — (LX) (LZ)

(45) KCN B31 4B 3 A, B31 2B 1 B — (45) B CND SW — 0,1, 2,4,7 — (LX) (LZ)

(45) KCN B31 8B 7 A, B31 6B 5 B — (45) B CNE SW — 0,1, 2,4,7 — (LX) (LZ)

(45) KCN1 B31 4T 3 A, B31 2T 1 B — (45) B CNF SW — 0,1, 2,4,7 — (LX) (LZ)

(41) KCCN (IT) (LY) — B31 1, B31 2 — (45) C CNA SW — 0,1, 2,4,7 — (LZ) OAO,1, 2,4,7

(41) KCCN — B31 3, B31 4 — (45) C CNB SW — 0,1, 2,4,7 — (LZ) OBO,1, 2,4,7

(41) KCCN — B31 5, B31 6 — (45) C CNC SW — 0,1, 2,4,7 — (LZ) OCAO,1, 2,4,7

(41) KCCN — B31 7, B31 8 — (45) C CND SW — 0,1, 2,4,7 — (LZ) ODO,1, 2,4,7

(41) KCCN — B31 9, B31 10 — (45) C CNE SW — 0,1, 2,4,7 — (LZ) OEO,1, 2,4,7

(41) KCCN — B31 11, B31 12 — (45) C CNF SW — 0,1, 2,4,7 — (LZ) OFO,1, 2,4,7

(KA) (LX) (LZ)

(45) CNG SW SECT. 1 — B

1,2,4,7 1,2,4,7 0
3,5,8 3,5,8 1
6,9 6,9 2
0 10 4

SECT. 2

1 1
2,3 2,3
4-6 4-6
7-9,0 7-10 7

(45) KCN1 B31 2B 1 A, 12 ALL
(45) KCN1 B31 4B 3 B, 12 ALL

0,1, 2,4,7

(45) CNG SW SECT. 3 — C

1,2,4,7 2,3,5,8 0
3,5,8 4,6,9 1
6,9 7,10 2
0 1 4

SECT 4

1 2
2,3 3,4
4-6 5-7
7-9,0 8-10,1 7

(41) KCCN B31 13 C, 12 ALL
(41) KCCN B31 14 D, 12 ALL

0,1, 2,4,7 — (LZ) OGO,1, 2,4,7

AUTO. MON., REG & SDR TEST CKT

CAMA BI CKT

MTFC CKT — CAMATV CKT — DAS ETS (CAMA)

1CA — 48
1CA — 48
1CA — 48

RCDR & RCDR CONN CKT

C2A TC CO,1,2,4,7 — 48
C2A TC DO,1,2,4,7 — 48
C2A TC EO,1,2,4,7 — 48
C2A TC FO,1,2,4,7 — 48

CAMA CONN CKT

THO,1,2,4,7 — 48
HNO,1,2,4,7 — 48
TO,1,2,4,7 — 48
UO,1,2,4,7 — 48

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRC

6S (2) SD-25800-01-821

98B ISSUE

ISSUE | BID | 690 CH | 8TA

SD-25800-01-B22A

PART OF FS 21

LINE LINK LOCATION
(LINE LINK FRAME NO.)

SEE NOTE 302 — FTO-3

RM FT
RN FTA
UL FTB

B8 OTL1 10T 9
B8 12T 11
B8 OTL2 10T 9
B8 2T 1

B32 49 OTL3 10T 9 — FTAI
B32 12T 11 — FTBI
B32 49 OTL4 10T 9
B32 12T 11

B7 LQ OTL5 10T 9 — FTA2
B7 12T 11 — FTB2

B35 PY OTL6 11 — FTA3
B35 12 — FTB3

B36 86 OTL7 11 — FTA4
B36 12 — FTB4

B40 102 OTL8 11 — FTA5
B40 12 — FTB5
B40 102 OTL9 11
B40 12

B41 106 OTL10 11 — FTA6
B41 12 — FTB6
ZFY

B41 106 OTL11 11 — FTA7
B41 12 — FTB7

FTO-3 — MTFC CKT — MARKER CKT
GTL- FTO-3 -48

TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT
FTO-3
FTOA-3A

ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT
FTO-3 -48

TRANSFER REG IDENT CONN CKT (IDENT PART)
TST ID- RI-

TRANSFER LINE IDENT AND CONN CKT
IB LB-

TRANSFER REG CKT
FTO-3 -48

TRANSFER REG IDENT CONN CKT (REG PART)

Ⓐ FTO L KEY 4 3 0
Ⓐ FTI-3 L KEY B20 4 3 1-3

FT SW SECT. 1 NBRDG
0,1,2 1,2,3 0
12 ALL 3,4 4,5 1
5 6 2
SECT. 2 NBRDG
1 2
12 ALL 2,3 3,4
0,4,5 1,5,6 3

78 — Ⓢ Ⓣ

KFTU
0 8T 7 0
1 6T 5 1
2 4T 3 2
3 2T 1 3

87 → FTO-3

FTO L KEY 4 3
FTI L KEY 4 3
FT2 L KEY 4 3 0

FT1 L KEY 6 5
FT3 L KEY 4 3
FT4 L KEY 4 3 1

FT2 L KEY 6 5
FT3 L KEY 6 5
FT5 L KEY 4 3 2

FTO L KEY 6 5
FT4 L KEY 6 5
FT5 L KEY 6 5 3

78 — Ⓣ

KLI
0 24 0
1 23 1
2 22 2
3 21 3

FTO-3
-48 B34 2U IU 640
B36 RIA 7 12

B20 GK — GK B20
GI GI

87 FTAK
-48 B33 2U IU 640 12 87 LIKI B36
12

87 FTBK
2L IL 640 11 87 LIKI B36
22B/H6 FT 1

146 B47 CWMI 6 FTK 2B 1 ZTI — ZPI BSNT 7 B69

FTK 3B 4T 700
-48 B6
FB 90 PLL FB
FC 8 FC
ZRI 10 ULLT B46
B37

Ⓐ FTO L KEY 5 6 0
Ⓐ FTI-3 L KEY 5 6 1-3

FT SW SECT. 3 NBRDG
12 ALL 0-3 1-4
4,5 5,6

FTO-3 L KEY 2 1
FT4,5 L KEY 2 1

KVI
0 8T 7 0
1 6T 5 1
2 4T 3 2
3 2T 1 3

UL KVI
4 12T 11 4
5 12B 11 5

FTTO-5 — MTFC CKT — MARKER CKT — FT2/4

4,5 0-3 90 → FTO-5 55E9

MASTER TEST CONTROL CIRCUIT
(2) SD-25800-01-B22A
BELL TELEPHONE LABORATORIES INCORPORATED
6S
97A DRAWING ISSUE
83A 82D 760 710

PART OF FS 21

LINE LINK LOCATION
(LINE LINK FRAME NO.)

OTL1 FUA B8 8T 7 6T 5 FUB
OTL2 B8 8T 7 6T 5
(49) OTL3 FUA1 B32 8T 7 6T 5 FUB1
(49) OTL4 B32 8T 7 6T 5
(LQ) OTL5 FUA2 B7 8T 7 6T 5 FUB2
(PY) OTL6 FUA3 B35 10 9 FUB3
(86) OTL7 FUA4 B36 10 9 FUB4
(102) OTL8 FUA5 B40 10 9 FUB5
(102) OTL9 B40 10 9
(106) OTL10 (ZYF) FUA6 B41 10 9 FUB6
(106) OTL11 FUA7 B41 10 9 FUB7

SEE NOTE 302 FU0,1,2,4,7

FU SW SECT.1 NBRDG
1,2,4,7 2,3,5,8 → 0
3,5,8 4,6,9 → 1
6,9 7,10 → 2
0 1 → 4
SECT.2 NBRDG
1 2
2,3 3,4
4,5,6 5,6,7
7,8,9,0 8,9,10 → 7
12 ALL

(ZWP,ZWQ) (KX)

FU1 L KEY FU2 L KEY FU4 L KEY FU7 L KEY → 0
FU1 L KEY FU3 L KEY FU5 L KEY FU8 L KEY → 1
FU2 L KEY FU3 L KEY FU6 L KEY FU9 L KEY → 2
FU4 L KEY FU5 L KEY FU6 L KEY FU(L KEY → 4
FU7 L KEY FU8 L KEY FU9 L KEY FU0 L KEY → 7

KFTU 0 2B 1 → 0; 1 4B 3 → 1; 2 6B 5 → 2; 4 8B 7 → 4
(ZXH) KFTU 7 10B 9 (ZXG) (ZXG)
(127) TVT1 10
(163) 5DG L KEY 4 5B
(87) FU0,1,2,4,7

KL1 0 20 0; 1 19 1; 2 18 2; 4 17 4; 7 16 7
FU0,1,2,4,7 1L 2L 234 640 -48
1 FU0,1,2,4,7
RIA 11 B36

MTFC CKT
GTL- FU0,1,2,4,7 -48
TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT
FU0,1,2,4,7 -48
ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT
FU0,1,2,4,7 -48
TRANSFER REG IDENT CONN CKT
TST ID- RI-
TRANSFER LINE IDENT AND CONN CKT
IB LB
TRANSFER REG CKT
FU0,1,2,4,7 -48
MTFC CKT
MARKER CKT

(87) FUAK -48 B33 2U 1U 640 (87) LIKI (GI) 10 B36 B20 (GL) (ZWP,ZWQ) (KX)
22A/H6 FT 12
(87) FUBK -48 B33 2L 1L 640 (87) LIKI (GI) 9 B36 B20 (GL)
(87) LIK2 B36 12 1

(146) CWMI B47 12 FUK 2B 1 (ZTI) (ZPI) BSNT

FUK 48 B6 3B 4T 700 (FB) (90) PLL (FB) (FC) 6 (FC) (FC) (ZRI) 9 ULLT B46 (90) FU 55H4
(ZWP,ZWQ) 12 ALL FU SW SECT.3 NBRDG 0-9 1-10 (ZWP,ZWQ) (KX) (KX)
FU0-9 L KEY 2 1
(90) FU0-9 55H6

KFU 0 10T 9; 1 8T 7; 2 6T 5; 3 4T 3; 4 2T 1; 5 2B 1; 6 4B 3; 7 6B 5; 8 8B 7; 9 10B 9
FUT0-7
(AS) FUT8 (AT) FUT8/TPT (AS) FUT9 (AT) FUT9/RPT
TPT (AT) RPT (AT) 29E8
FU2/5

BELL TELEPHONE LABORATORIES INCORPORATED
MASTER TEST CONTROL CIRCUIT
2
6S
SD-25800-01-822B
97A DRAWING ISSUE

PART OF FS 21

LINE LINK LOCATION (VERTICAL GROUP)

(135) WBNT — ZWN — 0, 2

87 — KLI

VGU SW SECT 1 NBRDG — VGTI L KEY — JF — KX

SECT 2 — SECT 3

VGO,1,2, 4,7,10 — IU — 2U B34 -48 — 640

B36 — RIA — VGO,1,2 4,7,10

JF VGTI L KEY — GM MC18 — JF VGTI — B20 — 5 6D — 1 2B — U L B7 -48 — 706

87 VGAK — B33 2U IU -48 — 640 — 87 LIK1

87 VGAK — 24A/H8 HG — LIK2

87 VGBK — B36

87 VGBK — B33 2L IL -48 — 640 — 87 LIK1

(135) WBNT — ZWN — GI — GL — B20

VGTI L KEY — SECT 2 — 3D

0,1,2 4,7,10 — JF — KX

KVHG — 12T — 10T — 8T — 6T — 4T — 2T

0,1,2 4,7,10

TRANSFER REG IDENT CONN CKT IDENT PART — TST ID-

TRANSFER LINE IDENT & CONN CKT P- S-

TRANSFER REG IDENT CONN CKT REG PART — RI-

TRANSFER REG CKT — VGO,1,2, 4,7,10 -48

MASTER TEST FR CONN CKT — VGO,1,2, 4,7,10 — GTL- -48

COMPLETING MARKER CKT — VGO,1,2, 4,7,10 -48

TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT — VGO,1,2, 4,7,10 -48

ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT — VGO,1,2, 4,7,10 -48

OTL1 — B8 — 4T — 3 — VGA

B8 — 2T — 1 — VGB

(49) OTL3 — B32 — 2B — 1 — VGA1

B32 — 4B — 3 — VGB1

(LQ) OTL5 — B7 — 4T — 3 — VGA2

B7 — 2T — 1 — VGB2

(PY) OTL6 — B35 — 6 — VGA3

B35 — 5 — VGB3

(102) OTL8 — B40 — 6 — VGA5

B40 — 5 — VGB5

ZYF — (106) OTL10 — B41 — 6 — VGA6

B41 — 5 — VGB6

(106) OTL11 — B41 — 6 — VGA7

B41 — 5 — VGB7

(139) WR00-39 — B63 — 6 — VGR (00-39)A

B63 — 5 — VGR (00-39)B — SEE NOTE 302 — VGO,1,2, 4,7,10

0 — KX — VG1 L KEY — VG2 L KEY — VG4 L KEY — VG7 L KEY — ZF VG10 L KEY — XD

1 — VG1 L KEY — VG3 L KEY — VG5 L KEY — VG8 L KEY — ZF VG11 L KEY

2 — VG2 L KEY — VG3 L KEY — VG6 L KEY — VG9 L KEY — ZF VG12 L KEY

4 — VG4 L KEY — VG5 L KEY — VG6 L KEY — VG0 L KEY

7 — VG7 L KEY — VG8 L KEY — VG9 L KEY — VG0 L KEY — ZF VG13 L KEY

10 — VG10 L KEY — VG11 L KEY — ZF VG12,13 L KEY

0,1,2 4,7,10

VGO,1,2, 4,7,10

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S — (2)

SD-25800-01-B23A

ISSUE 94D

DRAWING ISSUE 74A 83A

SD-25800-01-823B

PART OF FS 21

LINE LINK LOCATION
(VERTICAL GROUP)

MASTER TEST FR CONNECTOR CKT

COMPLETING MARKER CKT

DT OR ACD MARKER CKT

ZPI BSNT

VGK -48 B6 38 4T 700 1 2 VERI 3T

ZPH

B8 11

KX VG0-9 L KEY 5 6 0-9

KX 0-13 JF 0-13

KX

ZF VG10,11 L KEY 5 6 10,11

ZF ZF KX

VGTI 1

6A 4 5 VGTI L KEY

ZF VG12,13 L KEY 5 6 12,13

XD XD KX

VGU SW SECT4 NBRDG

12 ALL 0 1 VGTI 12 0

1 2 VGTI 11 1

2 3 VGTI 10 2

3 4 VGTI 9 3

4-9 5-10 4-9

10 11 12 13 10-13

5 P&LO 6B L KEY

JF

SECT. 5

VG WSD 7 6 8B JF 12 ALL

6 7 0

1 2 VGTI 7 1

VGTI 8

0 1 2 3

9 10 4

0-4

8 9

7 8

WSI

3 4 VGTI 5 WS3

4 5 WS4

5 6 WS5

SEE NOTE 316

VGTO-4 0-4

VGT5 5

VGT6 6

VGT7-9 7-9 0-13

SECT. 6

12 ALL 2 3 FS2

5 6 FS5

VGTIO 10

VGTII-13 11-13

1 2 VGTI 3

0,3,4,6-9 1,4,5,7-10

SEE NOTE 302

B8 OTL2 12T 11 ZPE ZPF 156 ACD3 ZPF

RN TVGTA

RM TVGT

B32 49 OTL4 2T 1 ZPF TVGTA1

B36 86 OTL7 6 TVGTA4

B40 102 OTL9 6 TVGTA5

TVGTO-11 0-11

TVGTI2,13 XD 12,13

0-13

KVG3

0 8T 7 0

1 6T 5 1

2 4T 3 2

3 2T 1 3

4 2B 1 4

5 4B 3 5

6 6B 5 6

7 8B 7 7

KVG4

8 6T 5 8

9 4T 3 9

10 2T 1 10

11 2B 1 11

12 4B 3 12

13 6B 5 13

XD

KVGI

0 8T 7 0

1 6T 5 1

2 4T 3 2

3 2T 1 3

4 2B 1 4

5 4B 3 5

6 6B 5 6

7 8B 7 7

KVG2

8 8T 7 8

9 6T 5 9

10 4T 3 10

11 2T 1 11

12 2B 1 12

13 4B 3 13

XD

0-13

VGTO-13

VG2/6

VGTO-13 -48

VGGI/2

TVGT 0-13

VGTO-13

GK

VGR -48

BELL TELEPHONE LABORATORIES INCORPORATED	MASTER TEST CONTROL CIRCUIT (2)
6S	SD-25800-01-823B
ISSUE 97A	DRAWING ISSUE 74A 82D

SD-25800-01-824A

PART OF FS 21

LINE LINK LOCATION
(HORIZONTAL GROUP)

156 TRF
248/F8 VGA
B8 ZPE OTL1 2B 1 HGA
B8 4B 3 HGB
49 OTL3
B32 4T 3 HGAI
B32 2T 1 HGBI
LQ OTL5
B7 2B 1 HGA2
B7 4B 3 HGB2
PY OTL6
B35 2 HGA3
B35 7 HGB3
102 OTL8
B40 2 HGA5
B40 7 HGB5
OTL10 ZYF
B41 2 HGA6
B41 7 HGB6
106 OTL11
B41 2 HGA7
B41 7 HGB7

139 WR00-39
B63 2 HGR(00-39)A
B63 7 HGR(00-39)B

SEE NOTE 302 HG0,1,2,4,7

MTFC CKT
MARKER CKT
HG0,1,2,4,7 GTL- -48
TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT
HG0,1,2,4,7 -48
ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT
HG0,1,2,4,7 -48

HG1 L KEY, HG2 L KEY, HG4 L KEY, HG7 L KEY
HG1 L KEY, HG3 L KEY, HG5 L KEY, HG8 L KEY
HG2 L KEY, HG3 L KEY, HG6 L KEY, HG9 L KEY
HG4 L KEY, HG5 L KEY, HG6 L KEY, HG0 L KEY
HG7 L KEY, HG8 L KEY, HG9 L KEY, HG0 L KEY
0,1,2,4,7 KX JF 87

KVHG
KLI
0,1,2,4,7

HG0,1,2,4,7 TST ID- HG-
TRANSFER REG IDENT CONN CKT IDENT PART
TRANSFER LINE IDENT & CONN CKT
HG0,1,2,4,7 RI-
TRANSFER REG IDENT CONN CKT REG PART
TRANSFER REG CKT HG0,1,2,4,7 -48

HG0,1,2,4,7 1L 2L B33 640 -48
HG0,1,2,4,7
RIA
B36

HG SW SECT. 1
12 ALL 1,2,4,7 2,3,5,8 3,5,8 4,6,9 6,9 7,10 0 1
SECT. 2
12 ALL 1 2 2,3 3,4 4,5,6 5,6,7 7,8,9,0 8,9,10,1

87 HGAK 87 LIKI GI GL B36 B20
87 HGBK 87 LIKI GI GL B36 B20
LIK2 B36

BELL TELEPHONE LABORATORIES INCORPORATED
MASTER TEST CONTROL CIRCUIT
2
6S
SD-25800-01-824A
23A/HI
94D
ISSUE

B33 74A B20 83A

SD-25800-01-B248

PART OF FS 21

LINE LINK LOCATION
(HORIZONTAL GROUP)

MTFC CKT

COMPL MKR CKT

BSNT ZPI

ZPI ZPH ZPI

HGK

146 CWI -48 B6 5B 4T 950

INC 5 6B

LB L KEY 5 6C OR 6A

ORIG 7 8B

LBL L KEY 4 5C

4B 3 MC4

ZPF OTL1 ZPF 12B 11

OTL2 2B 1

49 OTL4 49 4B 3

86 OTL7 86 4

102 OTL9 102 4

MARKER CKT

MTFC CKT

HGK

HGK K11GT 11 12 KV 7T 7B 950 B7 -48

ZXX KCS 26A/H0

HGO-9 L KEY 2 1

KX KX

VERI 4 5 6T

JF JF

88

HG SW SECT. 3

12 ALL 0-9 1-10

2 3C P&LO L KEY

JF

VG WSD 1 2 3T

JF 12 ALL SECT 4

0 1 2 3 4 5 6 7 8 9 10 0-9

JF

SECT 5

12 ALL 0 1 2 3 4 5 6 7 8 9 10 0-9

KHGA

0 10T 9 0

1 8T 7 1

2 6T 5 2

3 4T 3 3

4 2T 1 4

5 2B 1 5

6 4B 3 6

7 6B 5 7

8 8B 7 8

9 10B 9 9

HGT 0-7 0-7

AU HGT8

AV HGT8/PRLK

HGT9

AV

PRLK 67D9

0-9 0-9

KHGT

0 10T 9 0

1 8T 7 1

2 6T 5 2

3 4T 3 3

4 2T 1 4

5 2B 1 5

6 4B 3 6

7 6B 5 7

8 8B 7 8

9 10B 9 9

0-9 0-9

HG2/5

HGTO-9 -48

DT OR ACD MKR CKT

HGTO-9 -48

HGG

HGTO-9

GK

HGR -48

88 VGA 2B 1

OTL2 4B 3

RM THGT

ZPE RN THGTA

156 ACD3

ZPF ZPF ZPF

2

49 OTL4 2B 1 ZPF THGTAI

86 OTL7 5 THGTA4

102 OTL9 5 THGTA5

156 VGA 24A/GO

HGTO-9 ZPF

SEE NOTE 302 THGTO-9

THGT 0-9

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B248

ISSUE 9 7A

DRAWING ISSUE 74A 79A 82D 83A

PART OF FS 21

LINE LINK LOCATION
(VERTICAL FILE)

SEE NOTE 302

TEST INC TRUNK CKT (PHASE I & II)

TRF

VERI

DTF L KEY

TAMA L KEY

P&LO L KEY

WSD

TRANSFER REG IDENT CONN CKT REG PART

TRANSFER REG IDENT CONN CKT IDENT PART

MTFC CKT

DT OR ACD MKR CKT

COMPL MKR CKT

TRANSFER REG CKT

TRANSFER LINE IDENT & CONN CKT

ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT

TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT

MARKER CKT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B23

9.1.6

PART OF FS 22

CLASS OF SERVICE
AND
RATE TREATMENT

KCS 248/G4 — ZXX — ZXV — ZPY,CL — KCS L KEY 2 3D — ZPY,CL — B21

168 PCSS 12 — ZLQ — ZKA — ZLQ

B5 OR 7T 6 — IF — IG — IG — MC4 6B 5 — RY — JH — JF

B5 DT 9B 8 — TV — 86 DTR 10 — 86 CF 3

XA,XB,ZG CSTO L KEY 5 6 — JH CSUO-9 L KEY 7 8 — JH — RY — KCSO 13T 12B B7 -48 700 — JF

CSU SW SECT 4 NBRDG — 12 ALL — 0-9 — 1-10

XA,XB,ZG CSTI L KEY 5 6 — ZG,YZ — XB CSTO-9 L KEY 1 2 — JH — RY — KCSI 13T 12B B7 -48 700 — JF

CST SW SECT 4 NBRDG — 12 ALL — 0-9 — 1-10 — RY

MTFC CKT — MKB3 — KCS — T1 2 — 87 — JF

JH — RZ — XA,XB,ZG CST2 L KEY 5 6 — RF

EF

JI — CRUO-9 L KEY 1 2 — JI — RF — ZH — KCS2 13T 12B B7 -48 700 — JJ

JJ — CRU SW SECT 4 NBRDG — 12 ALL — 0-9 — 1-10

B8 VER2 2T 1 — LM — RX,VH — VI — VI

37 VER8 12T 11B B7 -48 700 — 37 KCS4 11T 11B B7 -48 700 — B8 2T 1

JI — EE — ED — CSGA L KEY 5 6B — KCS5 13T 12B B7 -48 700 — JJ — EF

CSGB L KEY 5 6A

AIC — AIC 115FO — 8 — 137 — 137 — B5 — A — ZVC — SDR 2B 1 — MC4 4T 3 — ZNK — NTRE — NTRE L KEY 2 3B NTRE -48 — 9481

B — ZKC — 22 IMS 2B 1 — B40 OTL8 3 — 102 — 8 9T SDR3 — M

B17 SDR1 5 6T SDR2 8 9T — B — KCS — 171 — B88 SDR1 6 SDR2 8 — 58D2

B5 ORIG 8T 7 — B2 156 TRF 9 — ZPE — OTLI 8B 7

B17 LV4 3 4T LV3 6B 5 — B — B32 OTL3 8B 7 — 49

B43 REX 6 — 109 — B41 OTLII 3 — 106

B69 ZPI BSNT 2 — B55 — 135 WBNT 7 — ZPL — ZWN — ZWN — B7 OTL5 8B 7 — LQ

B35 49 OTL6 3 — PY

ZOA — B41 106 OTL10 3 — ZYF

B5 NTC L KEY 2 3B OR 3D — 158 PMST 11

ZKA — ZLQ — 168 PCSS 11 — ZLQ

B63 WR00-39 3 — 139

9481 — 7881 — OP — KITC 11 12T B12 — 11 12T — IG — IN TI L KEY 5 6D 4

KCS3 — 86 DTRI 3 — IG — KCS3 11T 11B B7 -48 950 — IF — IG

CD — KCS6 13T 12B B7 -48 700

167 DMF — D — MC2 — RG SW SECT 1 NBRDG — MTFC CKT — MARKER CKT — D/MF -48 — 96G9

MTFC CKT — MKR - ACD

CST SW — ALL — 0-2 — 156 — T(0-2) — ACD2 10-12 — CTO-2 — CT(0-2) -48

CSU SW — ALL — 0-9 — 156 — U(0-9) — ACD4 1-10 — CUAO-9 — CU(0-9) -48

KCS- — CSG2

27C5

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

65 — 2 — SD-25800-01-B26A — ISSUE 103A

79A — 82D — 83A

SD-25800-01-B26B

STABILO

PART OF FS 22

CLASS OF SERVICE & RATE TREATMENT

A — CST SW SECT. 1

B21 12 ALL — 1,2,4,7 — 2,3,5,8 — 3,5,8 — 4,6,9 — 6,9 — 7,10 — 0 — 1

SECT. 2

B21 12 ALL — 1 — 2 — 2,3 — 3,4 — 4,5,6 — 5,6,7 — 7,8,9,0 — 8,9,10,1

B — CST1 CST2 CST4 CST7 / CST1 CST3 CST5 CST8 / CST2 CST3 CST6 CST9 / CST4 CST5 CST6 CST0 / CST7 CST8 CST9 CST0 — L KEY

C — CTA0 2170 ±14% — CTA1 2170 ±14% — CTA2 2170 ±14% — CTA4 2170 ±14% — CTA7 2170 ±14%

C — CTT 0,1,2, 4,7

C — CU 0,1,2, 4,7

C — CUT 0,1,2, 4,7

A — CSU SW

B — CSU1 CSU2 CSU4 CSU7 / CSU1 CSU3 CSU5 CSU8 / CSU2 CSU3 CSU6 CSU9 / CSU4 CSU5 CSU6 CSU0 / CSU7 CSU8 CSU9 CSU0 — L KEY

D — CTAO CTA1 CTA2 CTA4 CTA7

D — CU 0,1,2, 4,7 — CTAO,1,2,4,7

D — CTT 0,1,2, 4,7 — CTT0,1,2,4,7

D — CUT 0,1,2, 4,7 — CUT0,1,2,4,7

A — CRU SW

B — CRU0-9 L KEY

KCS3 — CRIR — CRO — CRI — KCS6 — KCS4

PCS1 — PCS2

DAS ETS — COMPL MKR CKT — ORMC CKT — ORIG REG CKT — MTFC CKT — DT MKR CKT — TLC CKT — CENTREX TRK CKT

CT- — TRF — MC- RC- CT- — CTK1/2 RD — RDO — M- CT- — CU- — CU- TRF — CUK1/2 RDI — CRU- — CGA F — CGB F — CGA,CGRA — CGB/CGRB

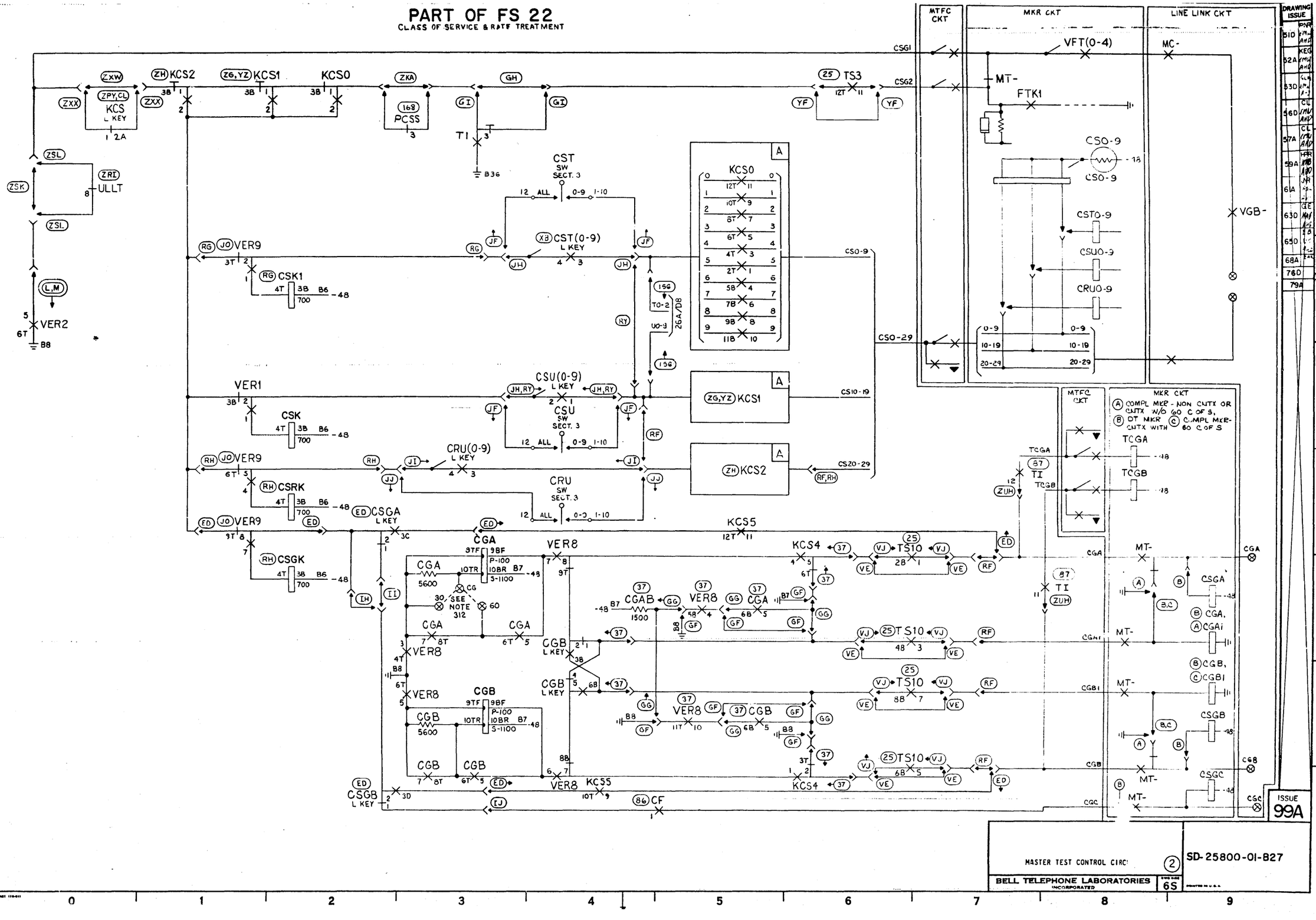
BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

65 (2.) SD-25800-01-B26B

ISSUE 103A

PART OF FS 22
CLASS OF SERVICE & RATE TREATMENT



DRAWING ISSUE 760

ISSUE 97A

SD-25800-01-B28A

BELL TELEPHONE LABORATORIES INCORPORATED

6S

MASTER TEST CONTROL CIRCUIT (2)

FS 23A

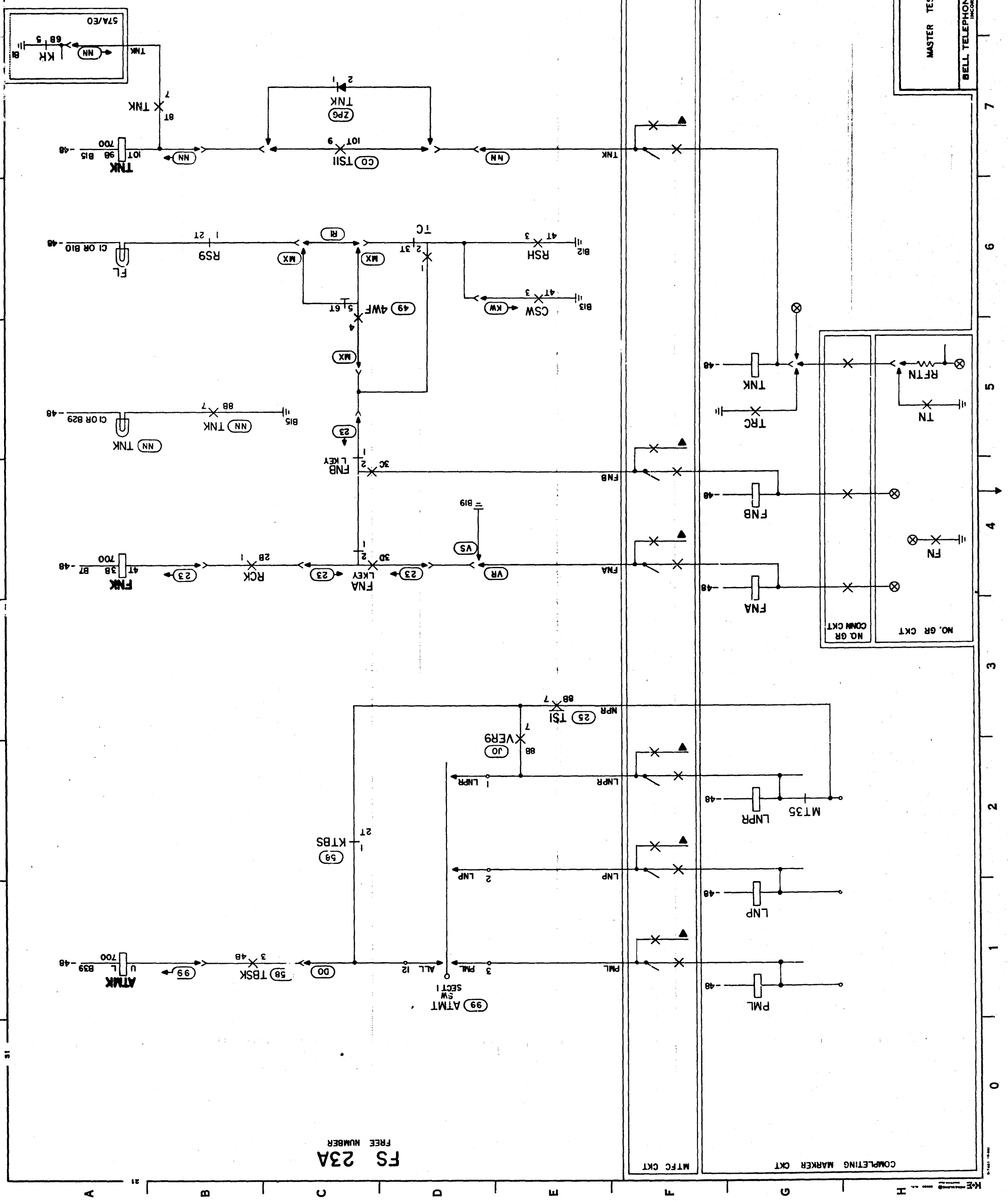
FREE NUMBER

MTFC CKT

COMPLETING MARKER CKT

NO. GR CKT

NO. GR CONN CKT



SD-25800-01-B28B

FS 23B
RINGING COMBINATION

B7 TTL 6T 5 — KRC L KEY 2 3A

B7 TTLI 8B 7

B32 TTL3 8B 7 — 49

B33 TTL5 5 — 55

B33 TTL8 5 — MS

B49 TTL9 5 — 102

B41 TTLIO 5 — 106

B55 TTLI3 5 — 135

B62 IAOC 3 — 149

B8 VER2 4T 3 — L,M

B36 TL5B 5 — 86

B36 TL5C 5

B36 CTL2 5

KRCI,2 13T 13B 950 B7 -48

COMPLETING MARKER CKT

MTFC CKT

54A/DO

RIP -48

SPL2 MTI5 XIIA PTK RCN9 ATT RCT9 -48 9

TBS-

RGTA

RCN2-5, 12-15 RCT2-5, 12-15 -48 2-5, 12-15

RCN1, 6-8, 11 RCT1, 6-8, 11 -48 1, 6-8, 11

RCN10 MTI RCT10 -48 10

UKA -48 + -

RIP KLT RIP -48 — 0Z — 65

IRS — 25 TS5 2T — 0Z — 65

RIP L KEY 5 6A 4 KTBS 4 5T — 65

RCTI-15

KRCI 1 9 10T 1 … 10 9 10B

KRC2 11 8 9T 1 … 15 6 7B

RCT 25 TS3 9 10T — YF

UKA — ZRI ULLT 4 — ZNW — B46

RCI-9 L KEY 1 2 — RC RB JF

JF RCU SW SECT 1 2-10 1-9 ALL 12

RCI0 L KEY 1 2 — RC RB JF

RCI-5 L KEY 5 6 — RC RB JF

RCII-15 L KEY 1 2 — RC RB JF

JF RCU SW SECT 2 2-6 1-5 ALL 12 3A 1 2 — 1 0 — ZYH, ZYI RCTI L KEY

3B 1 2 OTRC L KEY

VERI 5 4 6B — RCK 4T 3B B6 700 -48

ZSL — ZSK — ZRI ULLT 7 B46 — ZSL — 3B 2 KRC2

108 L VER2 9 — 58 M VER6 4

ZWN — NN — 4 TNK 58 — 135 WBT4 10 — ZWN

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B28B

ISSUE 99A

DRAWING ISSUE 76D 83A

6S

(2)

FS 24
LINE VERIFICATION

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B29

BELL TELEPHONE LABORATORIES INCORPORATED 6S

ISSUE 9B

SD-25800-01-B29

STABILO

FS 25

NUMBER GROUP TENS BLOCK
SCREENING, TERMINATING TREATMENT

NO. GR CKT | NO. GR CONN CKT | COMPL MKR CKT | MTFC

TBS0-3 MC- TBS(0-3) -48

POTS -48

MT15

PAN -48

SPL2 MT27

LRS -48

MT17

LAN

LLP1 -48

LLP

LRS LLP1 LLP2 -48

OP-

LRA

MRI/CTI -48

LDN -48

DN -48

RU-

TBS-

RSU-

OSG(0-11) -48

0-9

10,11

OHS -48

BLT -48

BLDA -48

DAT -48

KM -48

MT-

TST

TBS0-3 (58)

POTS (58) POTS 18B/F6

IRS (25) TS5 (02) (58) 5 6A RIP L KEY

LRR (60) LRS 2U 1U 855 (BR) (BK) TS12 3 4T (BR) B34 11

LRS

PAN (VJ) TS10 (02) (58) 11 12B

LAN (BR) (60) LRR 12 B49 11 (58)

(OS) (60) LLP1 (60) LLPV 2 3T 2 1

(58) KTBS 4 5 7 6B (165) NG2K L KEY (60) LRR 10 (BR) (BR)

LLP (BQ) (OS) (58) KTBS 6A 5 6B (OS) (BQ) (BR) (OS) 1 2

(BR) (BR) (60) LRS 1L 2L B44 -48 955

(60) LRR (165) NG2K L KEY 5 (BR)

LLP2 (OS,ZJW) (NE) (202) LLIK L KEY 3A 5T 2 4 (ZJV) (BR) (ZJV)

(NF) (NF) (ZJV) (ZJ12) (38) (OS) (60) LLPK (ZJV)

MC2 (ZJ") 7 5T MKT3 7 8B 11T LLPK 10

(ZJF) (ZJD) AICT (ZJF) 2 (ZJK)

(ZJK) (NA) DL4 L KEY 1 2 3C

(NA) AIS L KEY 1 2 3D B69

MRI (FU) CTI (CM,CN, FV, IZ) B12 11

LDN (KS) (KS) (KT) (58)

DN (1-T) 3 (PY) 4WG

SGU SW 0-9 ALL

SGU SW 0,1 ALL SGT1 L KEY

SG SW 10,11 ALL LLPK OSG (60) (58) 6 OSG

0-9

46H4

OHS (58) 2LN 3B 2 1 (KT) (KS) (KT)

BLT (KS) 2B 1 (58) UAK (IW) (58) FV,IZ,CM,CN 8 BLT

BLDA (58) 2LN 7 8B (KS) (KT) B34 (IW) (58) FV,IZ,CM,CN 9 BLDA

DAT (IW) (58) FV,IZ,CM,CN 10 DAT

KM (IW) (58) FV,IZ,CM,CN 11 KM

TSTL (25) TS1 11 12B 4 5 6B (IW) (JO) VER9

(64) BLV L KEY 2 3B KTC1 11 12B (58)

TBS SW SECT.1 1-4 0-3 ALL 12 KTBS 3 4B 4T 5B 700 B30 -48

TBSK

TERT SW SECT 1 1 POTS

KTBS 5T 4 3

(58) 5 LLP

(ZTZ) LLPA (165) NG2K L KEY 1 2 3D U L 700 B44 -48

(ZJV) (60) LLPK 13TR 12BR B31 -48 S-1400

12TF 12BF B31 -48 P-1300

3T (178) LLPK 2 1 13T 12B 700 B31 -48

(178) LLPK

(ZJV) KR KR 57A/E0

(CM,CN,FV,IZ) CTI 3 (FU) MRI

4 LDN

TERK

ALL 12 KTBS 1 2B 4T 5B 700 B30

(58) (ZSN) (ZRI) ULLT B46 5 (ZSM) (ZSN) (58)

(CM,CN) OHS/2LN (FU,FV,IZ) 2LN

FV,IZ,CM,CN 8 BLT

FV,IZ,CM,CN 9 BLDA

FV,IZ,CM,CN 10 DAT

FV,IZ,CM,CN 11 KM

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B30

BELL TELEPHONE LABORATORIES INCORPORATED

65

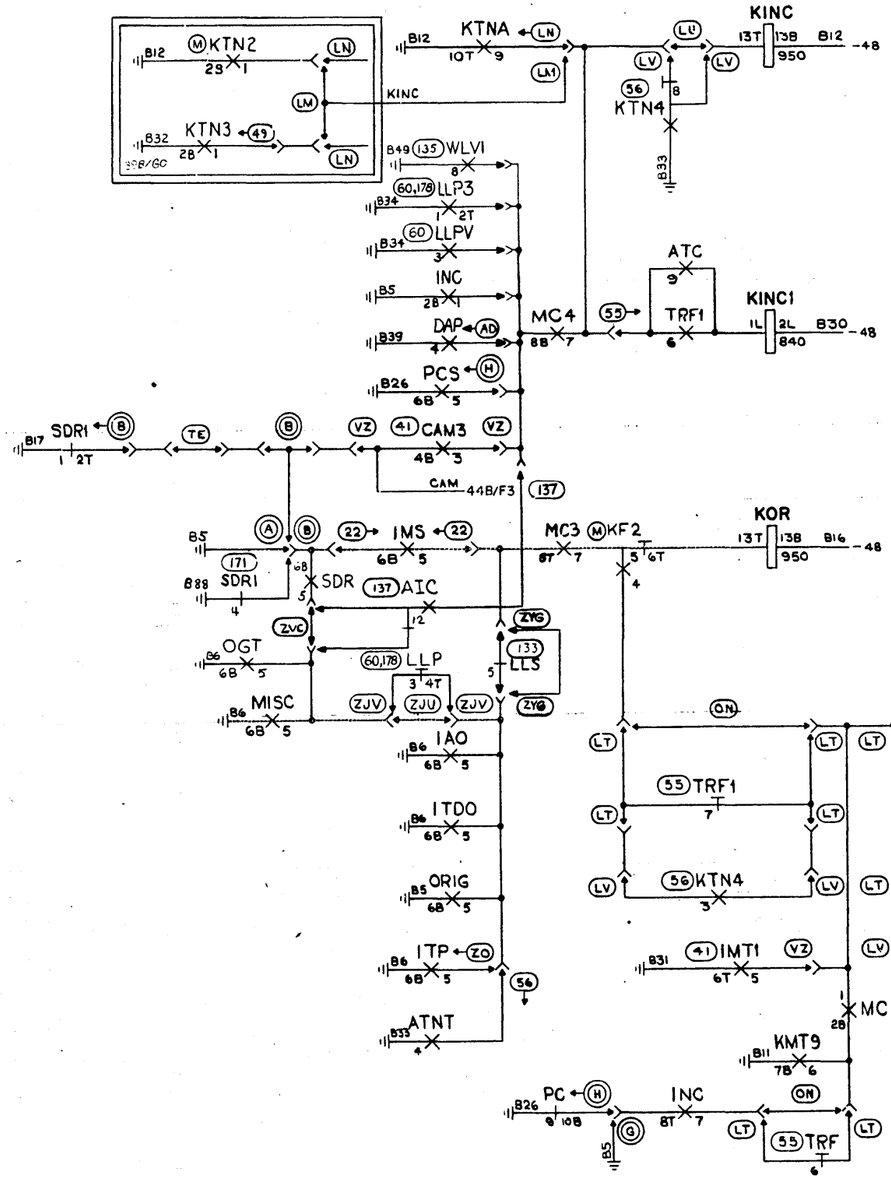
107A

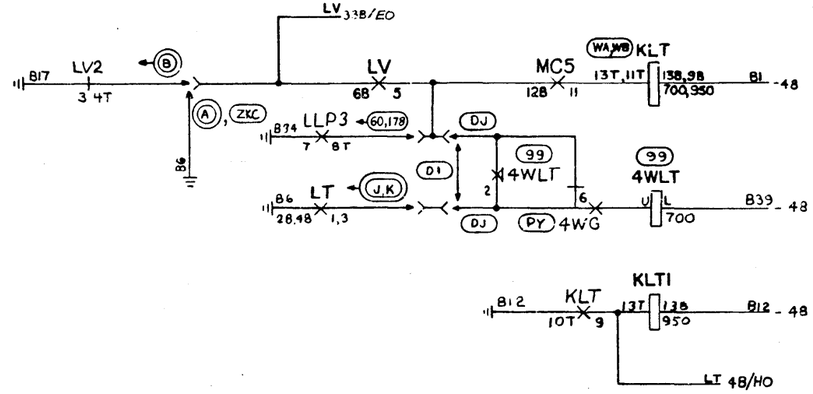
ISSUE

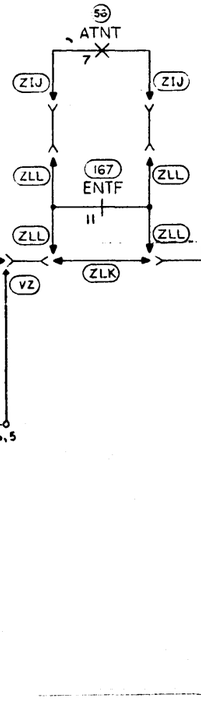
DRAWING ISSUE

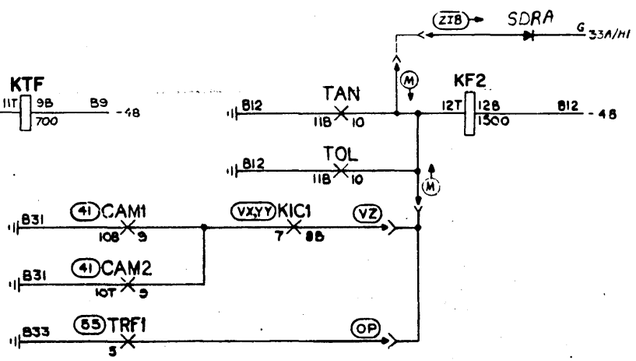
DRAWING REFERENCED WITHOUT CHANGE 2-22-68 ESM

FS 26
TYPE OF CALL









DRAWING ISSUE

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B31

BELL TELEPHONE LABORATORIES INCORPORATED 6S

FS 27

COIN & PREEMPTION CONTROL, PERMANENT SIGNAL, SECOND TRIAL & TRANSFER START

MARKER CKT

RRK ORT (PY) 4WG PE

(59) PE 1U 1L B32 -48 P-700 2U 2L S-700

(59) PE (38) MKT3 9 10B G

(SL) (PW) (EU,EV) MC12 28,8 (PY) 4WG 7

RR RRC CNR MTFC CKT

(PW) (PV) (PW) KOR 5 6T

(K) CNR 5T 3B B16 -48 950

4T 3 KR KR 8B 7 B1 G440

(K) CNR (K) CNR B16 2B 1 -48

(134) D TWO SECT I NBRDG

PS ALL (ZOG) (ZWN) (ZOH) 87 MC19 5 836

B16 KOR (ZOG, ZWN) 8B 7 (ZOG) (ZWX) PS L KEY 2 3C (ZWM) (ZWM)

B2 ACD2 (136) 9 (ZWM) 1

PD 2 (ZWN) (ZWM)

OFF 12 (ZWN) (ZOG) KOR (ZOG) (ZWX) PD L KEY 2 3D

(ZOH) 8B 7 (ZOH) Y (ZWM)

PK 3 B16 (N) KOR1 4T 3 (ZWN)

PK1 4 (ZWN)

B16 KOR 8B 5 CNR L KEY 2 3C 1

B32 (49) MC15 8B 7 (K) SCN L KEY 2 3D 1

B16 (N) KOR1 6T 5

MTFC CKT

PS PD PK CR SCN SCK

MARKER CKT

PS -48 PD -48 PP PK -48 PP -48 CR -48 SCN -48 SCK -48

MARKER CKT, PRETRANSLATOR CKT, TRANSVERTER CKT, ANI TV CKT, OR CAMA TV CKT OR PROGRAM CONTROLLED TRANSVERTER CKT (ANI AND CAMA)

(SL) (A) (YS,YR) N1 7,8 KR 88,98 28 B1

(B) (B) SDR1 6B 5 SDR2 1 2T

56B/C5

B3 MC2 108 9 TRS L KEY 2 3D

TRS 3A 2 TRS L KEY

B26 PC2 4T 3 (F) TR2 L KEY 2 3B

(ZKC) (A) (WT) TV3 (WT) (B) (WS) 8 9B (WS) 7

B3 MC2 12B 11 3C 2 1 TR2 L KEY

(ZKC) (A) (WT) TV3 (WT) (B) (WS) 5 6B (WS) 4

TRS TR2 TRK 1TR 2TR

TRS -48 TR2 -48 XTRK -48

TRANSVERTER OR ANI TRANSVERTER CKT

1TR -48 2TR -48

DRAWING ISSUE: 51D 52A 55A 56D 57A 61A 71D 74A 77A 80D

ISSUE 98B

MASTER TEST CONTROL CIRC (2) SD-25800-01-B32

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILOKE

SD-25800-01-B33A

FS 28 (A&M ONLY)
TANDEM SCREENING

MTFC CKT | COMPL MKR CKT | 33B/A7

B16 KOR 12B 11 — WW — ORI — WW — NQ — OR — OR XCLC -48
B16 (N) KORI 8T 7 — WX — OR2 — WX
FACD L KEY 2 1 / 3C — WX — FAC — WX — NQ — FAC -48

B34 (60) LLP3 3 4T — ZXC
B31 (41) IMTI 4B 3 — NW
B26 (H) PCS 8T 7 — SU
3IE9 G — (TZ) SDRA 8B 7 — ZIB ZXB ZXB — B5 ZIA
(86) DTRI — IG IF IG

B21 QX,QY TCB L KEY 2 3D — ZYZ — TCBT 10T 10B 7500 B7 -48 — ZYZ

B12 (VX,YY) KICI 12B 11 — ZYZ — ZXA — MC3 12B 11 — ZYZ — (UW) RO L KEY 1 2B — (ZYZ) TCBT 2 3T 11
TCA — ZYZ — NQ — TCA -48
TCB — ZYZ — NQ — TCB -48

B6 (K) LT 2T 1
B6 (SG,SH) LVI 5B,7B 4,6

(RE) VFO L KEY 4 3
B12 (M) TAN 6B 5 — YV,XM — YW,XL — GZ — RD — (XB) CSTO L KEY 2 1 — RD — GZ — YW,XL — FA,ZLY — FA,ZLY — (NT) KIC 8T 7 — YV,XM
(FA) TSC, (ZLS) CST SW SECT 1,3 NBRDG — 12 ALL — 0 1 — 1-4 2-5
UT — NT — TAN — NT — NQ — TSC0 -48
UV — UV — (M) TAN 9T 8
B12 (M) TOL 6B 5 — UT — UV — NT — KIC 10T 9 — TOL — NT — NQ — TSC5 -48

B12 (M) TOL 8B 7 — UV — YW,XL — GZ — RD — (XB) CSTI-4 L KEY 2 1 — RD — FA,ZLY — YW,XL — GZ — (RE) VFI-4 L KEY 4 3
(VX,YY) KICI 2T 1 — 1 — 1
4T 3 — 2 — 2
6T 5 — 3 — 3
3T 7 — 4 — 4
TANI-4 — YW,XL — NQ — TSCI-4 -48

B18 TTI L KEY 2 3C — WD,PB
B18 2DTI L KEY 2 3D — WC,QZ
B21 IC-OA L KEY 5 6 — ZVP — CY
B21 IC-OB L KEY 5 6
B21 IC-AB L KEY 5 6 — ZVP
(ZVP) IC-NTAN L KEY — B21 5 6 — ZZ,XK

B12 KLTI 4T 3 — NT — AA — NU — NU — (AD) DAP 1 — NU — ZJU — NV — NV — (60,178) LLP 5 6T — (60) LLPV 5
NT — KIC 4T 3 — NT
B12 (VX,YY) KICI 10B 9 — (41) CAMO L KEY 2 3C 1 — NW
B31 (41) IMTI 12T 11

(41) CAMI L KEY 2 3C 1 — NW — (-H) — NT — PCR — NT — NQ — TSC7 -48
(H) PCR 2B 1
(41) CAM2 L KEY 2 3D 1 — NW — (-H) — NT — PCD — NT — NQ — TSC8 -48
(H) PCD 2B 1
(41) CAM3 L KEY 2 3D — NW — (-H) — NT — PCDI — NT — NQ — TSC9 -48
B26 (H) MC9 10T 9 — (H) PCDI 2B 1

IC SW SECT 1 NBRDG — 0A 1 — 0B 3 — AB 5 — NTAN 10
B21 12 ALL
34B/H1

338/C2-H2

BELL TELEPHONE LABORATORIES INCORPORATED
MASTER TEST CONTROL CIRCUIT
65 (2) SD-25800-01-B33A
ISSUE 103A
74A

FS 97
INCOMING CLASS

FS 98
TYPE OF CALL

NQ CL SW SECT 2 NBRDG
OR-DP 1
OR-MF 2
FAC-DP 3
FAC-MF 4

B12 ZWG MC21 1 X 28 11 ALL

NQ ICL SW SECT 4 NBRDG

B8 M MLVM 1 2T N KORI 8B 7

MTFC CKT | COMPL MKR CKT

TCA 10 NQ TCA — TCA -48
TCB 9 NQ TCB — TCB -48
TAN 1 NQ TAN — TSCO -48
TAN1 2 NQ TAN1 — TSC1 -48
TAN2 3 NQ TAN2 — TSC2 -48
TAN3 4 NQ TAN3 — TSC3 -48
TAN4 5 NQ TAN4 — TSC4 -48
TOL 6 NQ TOL — TSC5 -48
INC 7 NQ INC — TSC6 -48
PCR 8 NQ PCR — TSC7 -48
PCD 9 NQ PCD — TSC8 -48
PCD1 10 NQ PCD1 — TSC9 -48
ANGB ZSB PTK — PTK -48

ZYZ, NT, YW,XL, ZSB, ZRI

B17 LV2 3 4T (B) (A) ZKC 86 31A7
LV NO ZWG MC21 128 11 ALL

B46 ULLT 6 ZRI

33A/B1-B8

ORI NQ WW OR
OR2 NQ WX
FAC NQ WX
33A/B0

B12 IF IG KINC 11 12T IF IG TL IF 818
RO L KEY 1 2C
RO L KEY 2 3C
TL IF IF RO
UW IG UW

IX 1 86 DTRI
ZSC 6C ZSC WBCX L KEY 5,4 WDTF 3A
WAT LKEY
ZSE ZSF ZSE DTF
IX IO IN 4 5
IN 6A ZSF IN DTI
IX ZUI,ZUJ TI L KEY
ZSE ZSC 4 5 WBCX L KEY
GJ 7 86 DTRI
ZSC 21 WAT LKEY 3B 6A WDTI
1 87 MCI9
GJ IN ATT L KEY IN ATT
5 6A 55 MCI7 2 GU
B33 KINCI 2 OVK 78C5 55 GU 55 ATC 10
1 2B VG WSD
B14 86 DTR 3 DTR IG GJ VG WSD 10B 9 2 87 MCI9
906
IN DAT L KEY 5 6B 4
2D 1 IN ATT L KEY
ZSG GJ ZSE AOT
4 5 ZSE ZSC WAT L KEY 6B WAT

MTFC CKT | COMPL MKR CKT

OR XCLC -48
FAC
RO
WDTF -48
DTF
DTI
WDTI -48
ATT -48
ALL OTHER TYPES
TCA/TCB TSC- AOT -48
DATI -48
DAT DT MKR CKT -48
NDAT -48
WAT -48
WAT -48

DRAWING ISSUE

63D	CF, MB, MC, MD
64A	CF, MB, MC
66A	DY, MC, MD
70A	EM
72A	DY
73D	
74A	
76D	
77A	
78D	
79A	
81A	

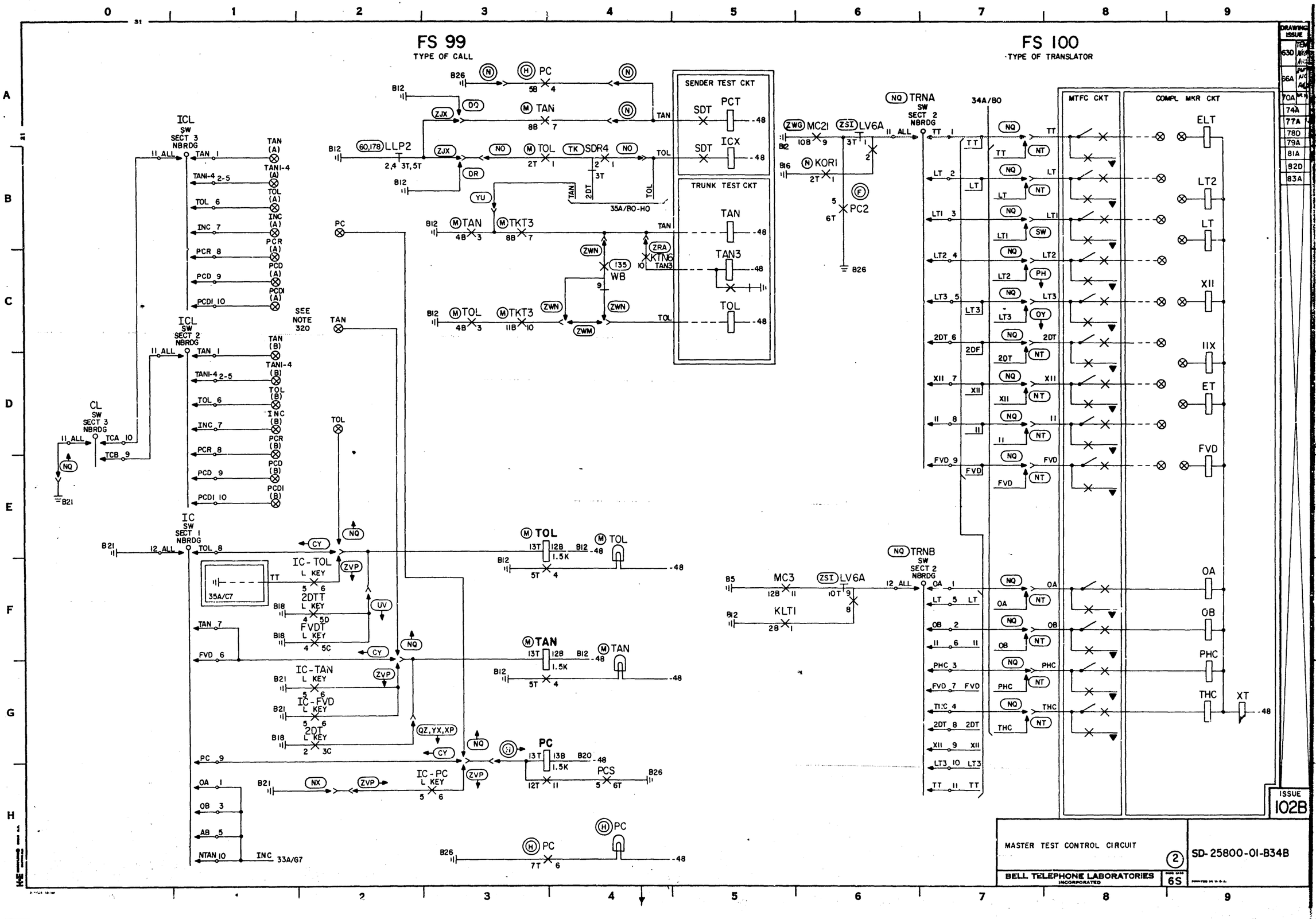
ISSUE 98B

MASTER TEST CONTROL CIRCUIT
SD-25800-01-B33B
BELL TELEPHONE LABORATORIES INCORPORATED
65

SD-25800-01-B33B

FS 29 (A&M ONLY)

TYPE OF TRANSLATOR


FS 99
TYPE OF CALL
FS 100
TYPE OF TRANSLATOR
SENDER TEST CKT
TRUNK TEST CKT
35A/80-HO
34A/80
MTFC CKT
COMPL MKR CKT
ICL SW SECT 3 NBRDG
ICL SW SECT 2 NBRDG
CL SW SECT 3 NBRDG
IC SW SECT 1 NBRDG
TRNA SW SECT 2 NBRDG
TRNB SW SECT 2 NBRDG
SEE NOTE 320
35A/C7
33A/G7
ELT
LT2
LT
XII
IIX
ET
FVD
OA
OB
PHC
THC
XT
ISSUE 102B
MASTER TEST CONTROL CIRCUIT
SD-25800-01-B34B
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-B35A

PART OF FS 30 (A&M ONLY)

CLASS AND TRANSLATION

AUTOMATIC MONITOR REG & SDR TEST CKT

M TAN BI2 4B 3 — 34B/B4 — YU

BI2 60,178 LLP2 2,4 3T,5T — ZJX — NO — M TOL 2T 1 — TK SDR4 2 1 3T — NO

DR — BI2

TAN — YU — YT — B21

M SDR3 8 7 9B — YU,YT

2DT — NO — JV

TOL — ZXR

2DTT L KEY 2 1 3D — UV — YX,QZ

2DT L KEY 4 5B — YX,QZ — YX,QZ 2DT

IC-FVD L KEY 4 3 — ZVP — YT — CY — YU — FVD

FVDT L KEY 2 1 3C — UV — NI — TT

IC SW SECT 3 — IC SW SECT 4 — FVD 6 — TAN 7 — ALL 12 12 — FVDI — TANI — 38E5,G5

IC-TAN L KEY 2 1 — CY — ZVP — YW — NJ — LT

CCK -48

ZVP IC-NTAN L KEY 2 1 — NTS

548/E5 SPL — ZZ,XK,NQ — ZZ — ZY — BI8 — 6A OR 6C 5 4 — SPL L KEY

WC,QZ 2DTI L KEY 4 5A — WG — NTAN

WH,WM,ZZ — IC-NTAN L KEY 4 3

INC REG LINK CKT — -48 — INC REG CKT

FA TSC, ZLS CST — SW SECT 2,4 NBRDG — 12 ALL 0 1 — 4 5 — 3 4 — 2 3 — 1 2

IC SW SECT 5 — IC SW SECT 6 — SPL 10 NTAN — ALL 12 12 ALL — NTAN 10 NTAN — 8 TOL — 7 TAN — TOL 8 TOL — TAN 7 TAN — 34A/D3,G3 — VFO

XI IR B5 7T 6 — UV — UT — UU — FA,ZLZ — RE — VFO L KEY 8 7 — GZ — YW — CY — IC-TAN L KEY 4 3 — ZVP — FO — TAN

RD — XB CSTO L KEY 7 8 — RD

YV — B21

IC-TOL L KEY 4 3 — UV — CY — UP — SS — ST — ZVP — ZXR — TOL

TT 34B/F1 — TT 34A/F5

RE VF1 L KEY 8 7 — GZ — XB CST1 L KEY 7 8 — TAN1 — TOL1

RE VF2 L KEY 8 7 — XB CST2 L KEY 7 8 — TAN2 — TOL2

RE VF3 L KEY 8 7 — XB CST3 L KEY 7 8 — TAN3 — TOL3

RE VF4 L KEY 8 7 — XB CST4 L KEY 7 8 — TAN4 — TOL4

UT — UV — 6T 5 4 — ZYZ TCBT

UT — UV — 9B 8 7 — ZYZ TCBT

UT — UV — 6B 5 4 — ZYZ TCBT

UT — UV — 3B 2 1 — ZYZ TCBT

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

2

SD-25800-01-B35A

ISSUE 10 2B

DRAWING ISSUE 74A 67D 66A 53D

PART OF FS 101
AUTOMATIC MONITOR CHECK

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

IRST — ICL — 11 — ALL — ICL SW SECT I NBRDG — OFF 12 — (NQ) — NICL

TAN 1 — TAN
TANI 2 — TANI
TAN2 3 — TAN2
TAN3 4 — TAN3
TAN4 5 — TAN4
TOL 6 — TOL
INC 7 — INC
PCR 8 — PCR
PCD 9 — PCD
PCDI 10 — PCDI

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

TAN — TAN
TANI — TANI
TAN2 — TAN2
TAN3 — TAN3
TAN4 — TAN4
TOL — TOL
INC — INC
PCR — PCR
PCD — PCD
PCDI — PCDI
TRRI — -48

SPL — (NQ) — SPL L KEY 5 4 — 6B OR 6D — (NQ) — SPLI — SPL 1 — CL — CL — 35C/AO
SPL2 — SPL
TRRI — -48

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

(NQ) TCL SW SECT I NBRDG — B20 11 — 12 — ALL — 0 1 — (NQ) — TCL0
1 2 — TCLI
2 3 — TCL2
3 4 — TCL3
4 5 — TCL4
5 6 — TCL5
6 7 — TCL6
7 8 — TCL7
8 9 — TCL8
9 10 — TCL9
10 11 — TCL10

(IM) CSL L KEY — B19 — 2 3A
(IM) NCSL L KEY — B19 — 2 3B
(IN) NATT L KEY — 2 3B
(IN) ATT L KEY — B19 — 2 3A

TCL0-14 — CL- — CL- — (TRUNK CLASS) — -48

INCOMING REGISTER LINK OR TRANSFER REGISTER LINK CKT

INCOMING REGISTER CKT OR TRANSFER REGISTER CKT

WBCX L KEY — B54/DI — 2 3D — (ZSC) — (NQ)
WAT L KEY — B54/DI — 2 3C
(ZRK) NWCX L KEY — B54/DI — 2 3C — (ZSE)

82

MASTER TEST CONTROL CKT

SD-25800-01-B358

BELL TELEPHONE LABORATORIES INCORPORATED

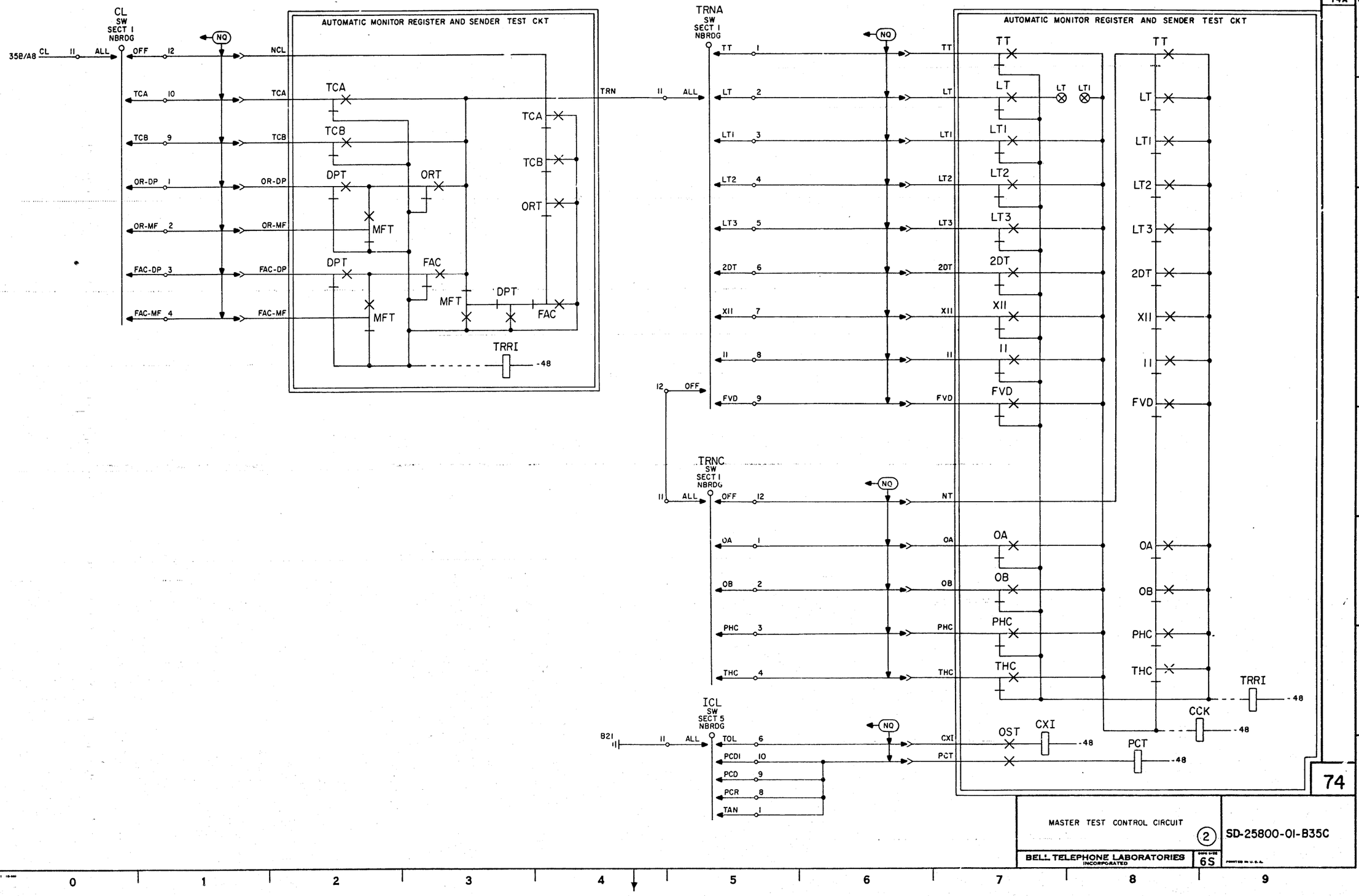
6S

DRAWING ISSUE
66A
79D
82D

SD-25800-01-B358

PART OF FS 101

AUTOMATIC MONITOR CHECK



DRAWING ISSUE 66A 74A

74

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B35C

6S

SD-25800-01-B35C

SD-25800-01-836

PART OF FS 30 (A&M ONLY)
CLASS AND TRANSLATOR

AUTO. MONITOR REG & SDR TEST CKT

IC SW SECT 2
34A/G5

IC-OA L KEY
IC-OB L KEY
IC-AB L KEY
SPL L KEY
PC
PCDI L KEY
PCD L KEY
CAMO L KEY
CAMI L KEY
68 OR 6D
38 OR 3D
3C OR 3A
CCK
TCL-
INC REG LK CKT
INC REG CKT

FS 102 (A&M ONLY)
TRANSFER REGISTER PRIMING

ATT L KEY
NATT L KEY
NCSL L KEY
CSL L KEY
WBCX L KEY
WAT L KEY
NWCX L KEY
DAT L KEY
TI L KEY
4DG L KEY
5DG L KEY
TRF L KEY
RTRF L KEY
7DG L KEY
NDT2
PHASE I & II
PHASE III
TRANSFER REG LK
TRANSFER REG
MKR
MTFC CKT

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
6S
2
SD-25800-01-836
ISSUE 89A

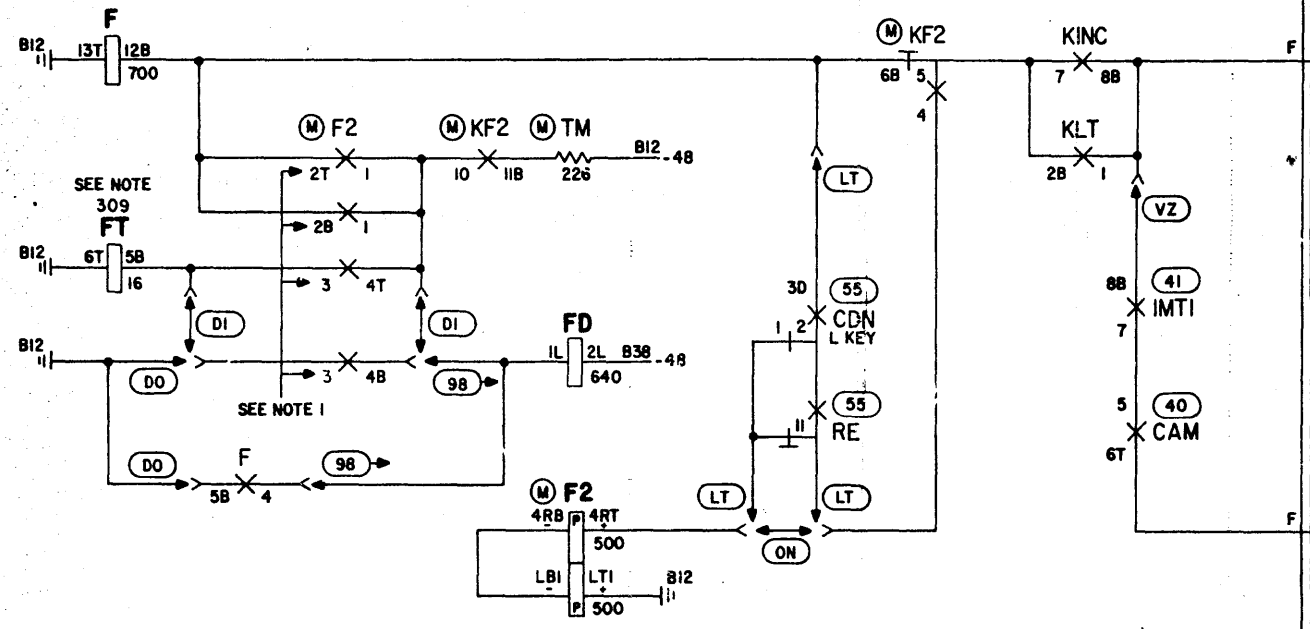
FS 31A
SIMULATED INCOMING TRUNK AND TRUNK LINK FRAME

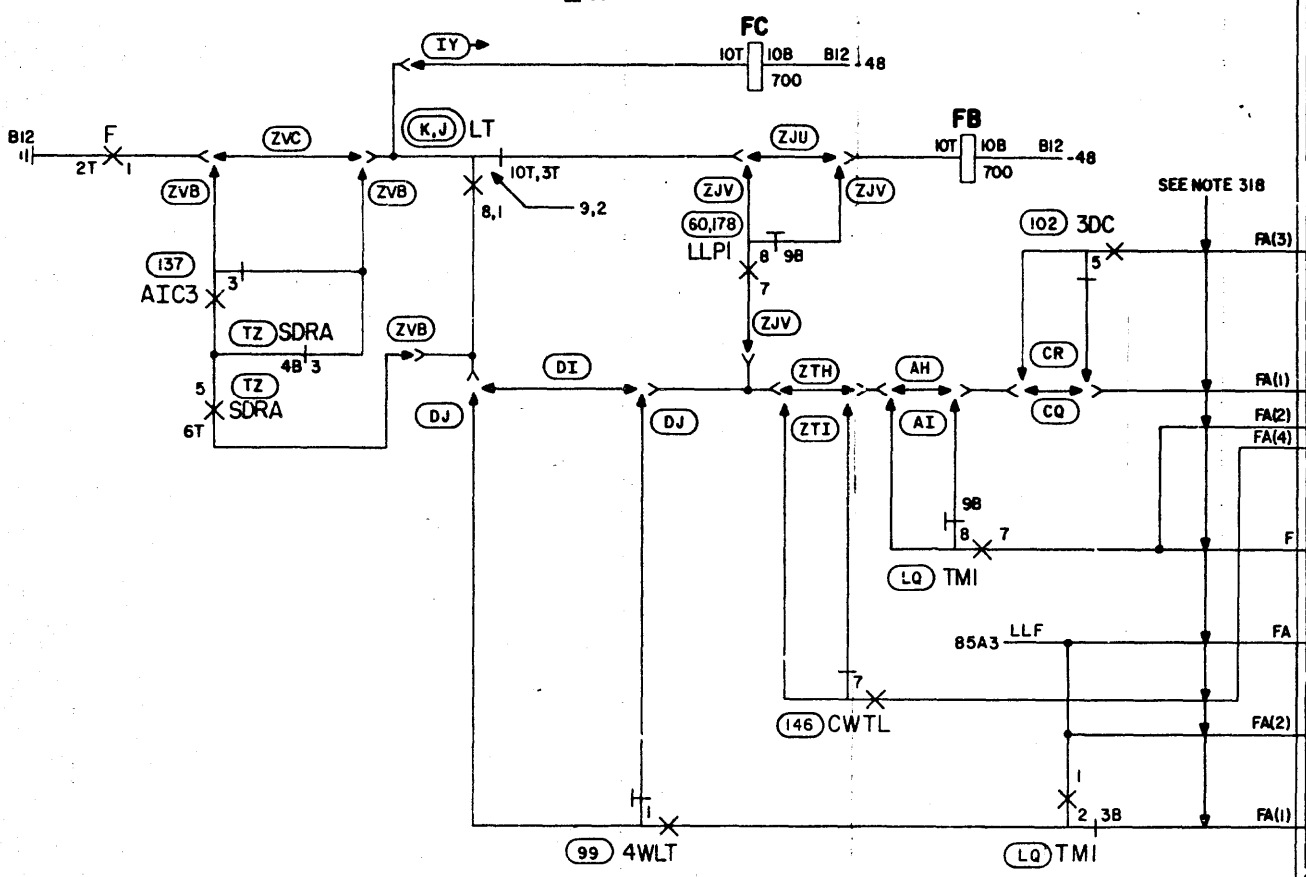
MTFC CKT

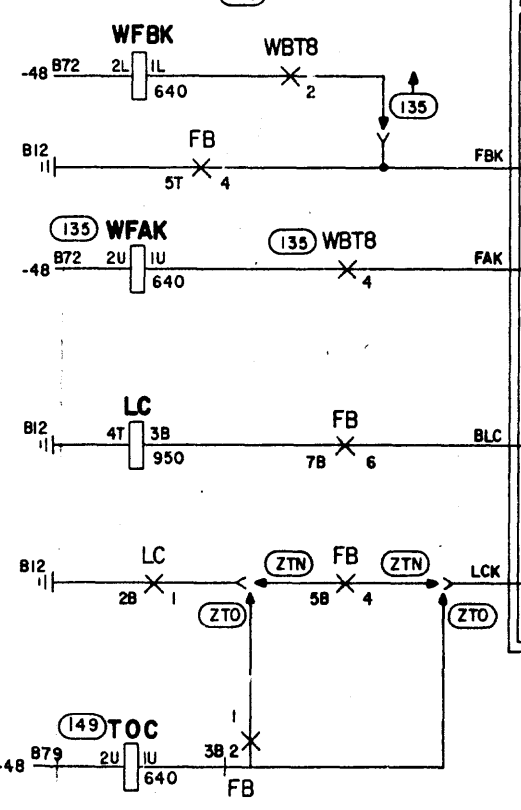
COMPLETING MARKER CKT

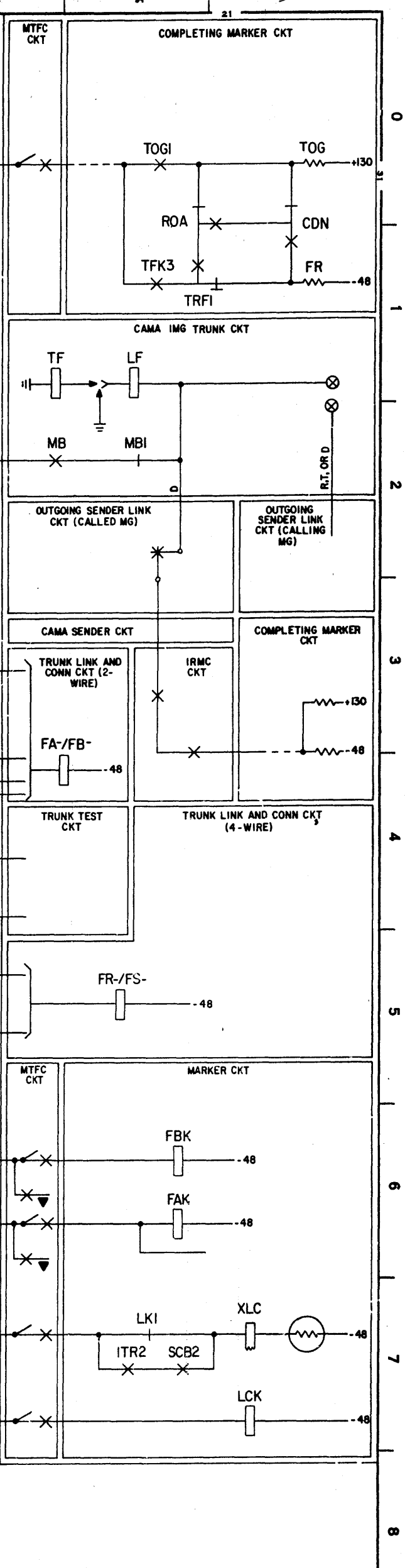
FS 31B

SIMULATED INCOMING TRUNK AND TRUNK LINK FRAME









NOTES:

1. CONTACTS 3,4B AND 3,4T MAKE WHEN LTI OF (F2) IS NEGATIVE WITH RESPECT TO 4RT OF (F2), CONTACTS 1,2B AND 1,2T MAKE WHEN 4RT OF (F2) IS NEGATIVE WITH RESPECT TO LTI OF (F2).

BELL TELEPHONE LABORATORIES INCORPORATED

6S

MASTER TEST CONTROL CIRCUIT

(2)

SD-25800-01-B378

ISSUE 102B

DRAWING ISSUE 710 760 79A 81A

SD-25800-01-838

FS 32

INCOMING TRUNK CLASS AND RECORDER NUMBER

MTFC CKT

COMPL MKR CKT

SEE NOTE 1

ITC-RNO L KEY

ITC-RN SW SECT 3 NBRDG

ITC-RNI-9 L KEY

KITC

ONN XPT

ISE 2SA 3NA 4NE 5ST 6NT 7RN 8SP 9NP

ITB 2WB 3FB 4TT 5MT 6FT 7TP 8MP 9FP

DAP

WLVI

HLLP

HLLPV

TRNB SW SECT 1 NBRDG

ETHC L KEY

IC-OA L KEY

IC-OB L KEY

IC-OAT L KEY

IC-OBT L KEY

THC L KEY

KLTI

KLT

IC SW SECT 3 NBRDG

IC SW SECT 4 NBRDG

IC-TOL L KEY

MTOL

78H5

IT

TRUNK TEST CKT

ITC-RN SW SECT 1 NBRDG

ITC-RN1 L KEY

ITC-RN2 L KEY

ITC-RN4 L KEY

ITC-RN7 L KEY

KRN

ITC-RN3 L KEY

ITC-RN5 L KEY

ITC-RN8 L KEY

SECT 2

ITC-RN6 L KEY

ITC-RN9 L KEY

ITC-RN0 L KEY

RNO1,2,4,7

TV CKT OR CAMA TV CKT

TV MC8

PCAM L KEY

KINC KMB

NOTES:
1. (ITC-RN-) KEYS CARRY LETTER DESIGNATIONS AS FOLLOWS:

	WL	WK
0.	NN	-
1.	SE	TB
2.	SA	MJ
3.	NA	FB
4.	NE	TT
5.	ST	MT
6.	NT	FT
7.	RN	TP
8.	SP	MP
9.	NP	FP

BELL TELEPHONE LABORATORIES INCORPORATED

65

MASTER TEST CONTROL CIRCUIT

(2)

SD-25800-01-838

ISSUE 102B

SD-25800-01-B39A

FS 33A
INCOMING TRUNK NUMBER RELAYS

MTFC CKT | COMPL MKR CKT

B12 NT KIC 12T X 11 — ZWG MC21 12T X 11
M TAN 7T X 6
M TOL 7T X 6
55 TRF 11
VZ 41 CAM2 5 X 6B VZ
41 CAM5 10T X 9
M TKT3 5 6T 4 — LT — ON — LT — 5 6T 4
55 CNTX L KEY 6D — 5 4 — LT
M SDR3 5 6T
70CI KTN ZKM
M KTN 11T 11B B11 950 -48
B31 41 IMTI VZ 8T X 7
LI,LJ KTNI 7T,11T 7B,11B B11 950 -48
LV 36 ATNT 6 — LU
56 KTN4 U L B30 700 -48
LN
KTNA 13T 13B B12 950 -48
MX 49 4WB 8 X 7 98 — RI
MX — DM — MX
49 KTN3 13T 13B B29 950 -48
DJ
99 KTN5 U L B39 700 -48
3T 2 1 — LQ TMI
ZRA ZRB TM2 1 — ZSZ
ZRA KTN6 U L B81 700 -48
ZWN 135 WB 8 — ZWM
ZWN — ZPL — ZPI
135 KTN7 U L B72 700 -48
ZPL — BSC L KEY 2 1 3D — ZPI
KTN8 U L B84 700 -48
BSNT 6
KTN18A U L B84 700 -48
M KTN2 13T 13B B12 950 -48

B12 OCN MC2 3 X 4T
B12 LI,LJ KTNI 6B X 5 — UE — UD
PD OCN L KEY 2 X 3D 1 — OCN
B12 LN KTNA 12T X 11 — UC — UB
B12 M KTN2 4B X 3
B32 49 KTN3 4B X 3
B33 56 KTN4 12 — UA
ECN

MTFC CKT: OCN -48
COMPL MKR CKT: OCN -48, ECN -48

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B39A

ISSUE 98B

ISSUE 78D, 79A, 82D

SD-25800-01-B39B

FS 33B

INCOMING TRUNK NUMBER CROSS CONNECTION

MTFC CKT

COMPL MKR CKT

B12 (M) KTN2 2B 1 LN THA

LM KINC 31BI

B32 (49) KTN3 2B 1 LN THAI

B33 (56) KTN4 1 THE

B38 (99) KTN5 1 THG

B66 (ZRA) KTN6 1 THJ

B55 (135) KTN7 1 THN

B69 (ZPI) KTN8 11 THO

(ZPI) KTN8A 11 THOI

SEE NOTE 307

THTO (ZQI,ZQJ) 0

THT1 (LN) 1

THT2 (ZQJ) 2

THT3 (ZQJ) 3

B12 (M) KTN2 2T 1 HTA

B32 (49) KTN3 2T 1 HTAI

B33 (56) KTN4 11 HTE

B38 (99) KTN5 2 HTG

B66 (ZRA) KTN6 2 HTJ

B55 (135) KTN7 2 HTN

B69 (ZPI) KTN8 10 HTP

(ZPI) KTN8A 10 HTPI

HTO,1,2,4,7

B12 (M) KTN2 4T 3 HTB

B32 (49) KTN3 4T 3 HTBI

B33 (56) KTN4 10 HTF

B38 (99) KTN5 3 HTH

B66 (ZRA) KTN6 3 HTK

B55 (135) KTN7 3 HTO

B69 (ZPI) KTN8 9 HTR

(ZPI) KTN8A 9 HTRI

SEE NOTE 307

B12 (M) KTN2 6T 5 TTA

B32 (49) KTN3 6T 5 TTAI

B33 (56) KTN4 9 TTE

B38 (99) KTN5 5 TTG

B66 (ZRA) KTN6 4 TTJ

B55 (135) KTN7 4 TTN

B69 (ZPI) KTN8 8 TTP

(ZPI) KTN8A 8 TTPI

SEE NOTE 307

TTO,1,2,4,7 TT- TTO,1,2,4,7 -48

B12 (M) KTN2 8T 7 TTB

B32 (49) KTN3 8T 7 TTBI

B33 (56) KTN4 7 TTF

B38 (99) KTN5 9 TTH

B66 (ZRA) KTN6 5 TTK

B55 (135) KTN7 5 TTO

B69 (ZPI) KTN8 7 TTR

(ZPI) KTN8A 7 TTRI

SEE NOTE 307

THT- THT- -48

HTO,1,2,4,7 HT- HTO,1,2,4,7 -48

SEE NOTE 307

B12 (M) TAN 2B 1 (M) KTN2 10T 9 UTA

B33 (55) TRF 9 (49) KTN3 10T 9 UTAI

(56) KTN4 5 UTE

B12 (M) TOL 2B 1 (M) SDR3 11T 10 (ZRA) KTN6 11 UTL

(M) TKT3 11T 10 (M) KTN2 10B 9 UTD

(49) KTN3 10B 9 UTDI

(99) KTN5 10 UTG

(ZRA) KTN6 6 UTJ

B55 (135) KTN7 6 UTN

B69 (ZPI) KTN8 6 UTP

(ZPI) KTN8A 6 UTPI

SEE NOTE 307

UTO,1,2,4,7 UT- UTO,1,2,4,7 -48

B12 (M) TAN 12T 11 (M) KTN2 12T 11 UTB

B33 (55) TRF 10 (49) KTN3 12T 11 UTBI

(56) KTN4 4 UTF

B12 (M) TOL 12T 11 (M) SDR3 2T 1 (ZRA) KTN6 12 UTM

(M) TKT3 2T 1 (M) KTN2 12B 11 UTC

(49) KTN3 12B 11 UTCI

(99) KTN5 11 UTH

(ZRA) KTN6 7 UTK

B55 (135) KTN7 7 UTO

B69 (ZPI) KTN8 5 UTR

(ZPI) KTN8A 5 UTRI

SEE NOTE 307

39C/B1 B3,B5 B7

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

(2)

SD-25800-01-B39B

82

DRAWING ISSUE 78D 79A 80D 82D

SD-25800-01-B39C

FS 33C

INCOMING TRUNK NO. MESSAGE
BILLING INDEX AND CODE
POSITION

A — HT-MB SW
SECT. 1
1,2,4,7 → 2,3,5,8 (0)
3,5,8 → 4,6,9 (1)
6,9 → 7,10 (2)
0 → 1 (4)
B25 12 ALL
SECT. 2
1 → 2
2,3 → 3,4
4,5,6 → 5,6,7
7,8,9,0 → 8,9,10,1 (7)
B25 12 ALL

THT3 L KEY 2 — 38 — 3
THT2 L KEY 2 — 3A — 2
(ZQJ)
0
THTO-3
(ZQI)
(LK,GD,GE) THTI L KEY 2 — 38,3A — 1
(LN)
THT- 39B/B3
(LN)
9 (LJ) KTNI IOT
B12

B — (N) KMB
0 IOT 9 — 0
1 8T 7 — 1
2 6T 5 — 2
4 4T 3 — 4
7 2T 1 — 7
MBO,1, 2,4,7

B — (M) KTN
HTO,1, 2,4,7
39B/B3 HT-

70F4 CPI,7
(ZKM)
C — (N) KMB
0 2B 1 — 0
1 4B 3 — 1
2 6B 5 — 2
4 8B 7 — 4
7 10B 9 — 7
CPO,1, 2,4,7

C — (M) KTN
TTO,1, 2,4,7
39B/B1 TT-

(LI,LJ) KTNI
0 6T 5 — 0
1 4T 3 — 1
2 2T 1 — 2
4 2B 1 — 4
7 4B 3 — 7
UTO,1, 2,4,7
39B/B6 UT-

(JF) (H) (JN)

HT-MB: HT-MBI, HT-MB2, HT-MB4, HT-MB7 / HT-MBI, HT-MB3, HT-MB5, HT-MB8 / HT-MB2, HT-MB3, HT-MB6, HT- MB9 / HT-MB4, HT-MB5, HT-MB6, HT-MB0 / HT-MB7, HT-MB8, HT-MB9, HT-MB0 — L KEY

A — TT-CP SW
TT-CP: TT-CPI, TT-CP2, TT-CP4, TT-CP7 / TT-CPI, TT-CP3, TT-CP5, TT-CP8 / TT-CP2, TT-CP3, TT-CP6, TT-CP9 / TT-CP4, TT-CP5, TT-CP6, TT-CP0 / TT-CP7, TT-CP8, TT-CP9, TT-CP0 — L KEY

A — UT SW
UT: UTI, UT2, UT4, UT7 / UTI, UT3, UT5, UT8 / UT2, UT3, UT6, UT9 / UT4, UT5, UT6, UT0 / UT7, UT8, UT9, UT0 — L KEY

B25

MTFC CKT
COMPL MKR CKT
THT- -48
DAS ETS (CAMA)
TV CKT
CPI,7 ONLY
CPO,1,2,4,7 -48
COMPL MKR CKT
MBO,1,2,4,7 -48
DAS ETS(CAMA)
COMPL MKR CKT
HTO,1,2,4,7 -48
DAS ETS (CAMA)
TV CKT
TTO,1,2,4,7 -48
COMPL MKR CKT
UTO,1,2,4,7 -48

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
6S
(2)
SD-25800-01-B39C
ISSUE 101A
DRAWING ISSUE 780 800

FS 34
SIMULATED RINGING SELECTION SWITCH

COMPL MARKER CKT | MTFC CKT

OV — OFH — C4 — RA5 — RS0 — KRS 11 12T — RS0 5TF 3BF B11 -48 P-850 GTR S-1750 — RS0 2B 1 — RSH 1 2B B12

BY — OFH — C4 — RA5 — RS1 — KRS 9 10T — RS1 5TF 3BF B11 -48 P-850 GTR S-1750 — RS1 2B 1

RCT2,12 — C4 — RA5 — RS2 — KRS 7 8T — RS2 5TF 3BF B11 -48 P-850 GTR S-1750 — RS2 2B 1

RCT3,13 — C4 — RA5 — RS3 — KRS 5 6T — RS3 5TF 3BF B11 -48 P-850 GTR S-1750 — RS3 2B 1

RCT4,14 — C4 — RA5 — RS4 — KRS 3 4T — (OH,OI) RS4 5TF,7TF 3BF,6BF B11 -48 P-850 GTR,8TR S-1750 — RS4 2B 1

RCT5,15 — C5 — RA5 — RS5 — KRS 1 2T — (OH,OI) RS5 5TF,7TF 3BF,6BF B11 -48 P-850 GTR,8TR S-1750 — RS5 2B 1

RCT1,11 — RS6 — TNK RCT10 — C5 — RA5 — RS6-8 — KRS 1,3,5 2B,4B,6B — RS6-8 5TF 3BF B11 -48 P-850 6TR S-1750 — RS6-8 2B 1

RCT6,7 RCT8,9 — RS7,8 — C5 — RA5 — RS9 — KRS 7 8B — RS9 8TF 6TR B11 -48 P-850 9TR S-1750 — RS9 5B 4

LDN — LSCI — DACI — MT27 — BY — OV — OFH

MT27

KRS 11 12B — (KW) CSW 5T 3B 950 B11 -48 — (BD) — 3A (ZZA,ZZB) CSW L KEY

SW — (ZQG) — (BD) — (135) (ZWN) WT 2 — (ZVG) MC22 8 — (ZWN) — SWC — (BD) — (ZQG) — (BD)

(ZUI,ZUJ) TI L KEY B19 5D 4 — B36 (TM)

PS — (OI) 6T 5 RS5 — (OI) 6T 5 RS4 — PS — 55 CDN 78A6

(86) DT4 8 — DT5 5 (86)

VERG LI MLVM B8 5T 4 6 7T 1T 6 5 60B/87 — BY (M)

TRUNK TEST REGISTER CKT FOR WIDEBAND (STD)

MCD — MCD

(ZWN) WT — B46 (ZVG) MC22 6 — (135) WT 1L 2L 640 B72 -48

STABILOKEM

SD-25800-01-B40A

RS0-8 B13 4T 3 — RS9 B13 7T 6 — (RI) (MX) (49) 4WF 5 6B (MX) — (KW) (KV) CSW 1 2T (KW) — KRS 10B 9 RSK

RS2 B13 1 2T — (ZOR) 2 — CI OR B18 -48

(XS) 3, (XT) 2+, (XU) 3+

RS3 B13 1 2T — (ZOR) — CI OR B18 -48

RS4 B13 1 2T — (ZOR) 4 — CI OR B18 -48

RS5 B13 1 2T — (ZOR) 5 — CI OR B18 -48

RS6 B13 1 2T — (ZOR) 1 — CI OR B18 -48

RS7 B13 1 2T — (ZOR) 1+ — CI OR B18 -48

(XQ) 2+, (XR) FL1

RS8 B13 1 2T — (ZOR) — CI OR B18 -48

RS0 B13 2T 1 — RS9 4 3T 3 — RP — CI OR B18 -48

OFL — CI OR B18 -48

RS1 B13 2T 1 — RS9 2 3B 1 — TP — CI OR B18 -48

(86) — (M) BY — BY — CI OR B18 -48

MTFC CKT | COMPL MARKER CKT

RSK — C4 — RA1 -48

F B12 10T 9 — KRS 13T 138 950 B12 -48

(VZ) (41) CAMI 10T 9 — (41) FCAM 8T 7B 700 B28 -48

(113) RMBR SW SECT 3 — 1,1-2 — 1,2 — (NK) BR1 — MT41 BRG BR1 -48

2,2-3 — 3,4 — BR2 — MT41 BRG BR2 -48

B18 12 ALL

3,3-1,1-2-3 5,6,7 — BR3 — MT41 BRG BR3 -48

CIR 10 — CIR — MT41 BRG CIR -48

SECT 2 — 2-3 — 4 — 1-2,1-2-3 2,7

SECT 1 — 3-1,1-2-3 7 — 2-6,8-11

ALL POSITIONS EXCEPT "OFF"

MT- — MT41 -48

MT41 — (ZMD) (ZMC) (ZMD) 2T 1 TS13 (ZXO)

COMPL MKR CKT

DRAWING ISSUE: 51D, 52A, 56D, 57A, 58A, 60D, 62D, 64A, 73D, 75B, 79A, 81A

ISSUE 91A

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-B40A

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

FS 35AA

TRUNK SELECTION CONTROL

TRUNK TEST CKT
LLP
LLP -48

B8 MISC 6T 5 — ZJV — 4 5,6B — ZJV — NI 8T 7 — TKS 8T 7B 89 -48 2.5kΩ
ZJU — 60,178 LLPI — ZJU
B8 OGT 4T 3
B8 ITDO 4T 3
B8 IAO 4T 3
56A/E3 TKS ZZO
B6 ITP 4T 3 — ZO — 56
B33 ATNT 11
B5 IMS 4T 3 — 22
B5 OR 5T 4
B5 MKT2 6T 5
B5 ZKY — SDR 4T 3 — ZJV — 60,178 LLP 48,12T 3,11 — ZJV
ZKZ — ZJU — ZJU
A 12H7

B56 ZUA N2 5 — ZKK — ZKJ
B5 MKTI 48 3 — ZKJ
B6 LT 28 1 — K — ZKJ
B43 REX 12 — 109 — ZKJ

TGTI 10
SIG 1 — 120 — 120 — ZZV
MFCI 7 8T
RAC 3
PMST 3 — 158 — 158 — ZPZ
KCH 8T 7B 8IO -48 2.5kΩ

99 MTTK 3
NTTS L KEY 2 3C OR 3A — ZLK — ZLL — ZLL
167 NT

B11 TKS 6B 5 — ZYG — 133 LLS 6 — ZYG
TS L KEY 2 3A OR 3C — ZLK — ZLL — ZLL
167 TS
KTS 8T 7B 89 -48 2.5kΩ

B41 TKS 7T 6 — ZZV — ZZW — ZZW
120 SIG 5
FD RCY 6
FS L KEY 2 3C — ZLK — ZLL — ZLL
167 FS
KFS 9T 68 89 -48 1.5kΩ
KMT9 9T 8
KFS 7 8T
KMT9 10 11T — 120 — MT9 8A/F5
NTFS L KEY 2 3D 1 — ZLL — ZLK — ZLL
167 NF
KFS 2 3B
KMT9 12T 12B 89 -48 1.5kΩ
120 ACD2 2 1

DAS ETS CKT
167 PTSI 6 — NTTS
167 PTSI 7 — TS
167 PTSI 8 — FS
167 PTS 11
167 NTA 1L 2L 887 -48 2450
167 PTSI 9 — NTFS
167 ENTF 1U 2U 887 -48 2450

MTFC CKT
TGTO
ACD MARKER CKT
TGTO -48

MT4 — VG KFS 2T 1 — VG — VJ 25 TSIO 12T 11 — MT4
VE — MT4
8A/F1
DIAL TONE MARKER CKT
MT4,14,24 -48

ISSUE 107A

MASTER TEST CONTROL CIRCUIT
SD-25800-01-B408
BELL TELEPHONE LABORATORIES INCORPORATED
GRID CODE 6S

SD-25800-01-841A

FS 35AB

TRUNK SELECTION CONTROL

MARKER CKT

XAFT

MTFC CKT

TRUNK LINK CKT

TRUNK LINK CONN CKT

TST

MARKER CKT

TSEI

XFT

YF

25

TS5

5 6T

KMT9

5B 4

XFT 5T 5B 950 B9 -48

4T 3

98

XFT 88HI

TSK

TS7

11 12T

TSK 6T 5B 950 B9 -48

5T 4

TST

-48

KTS

4 5T

MC6

3 4T

3B OR 3D 2

NT TS L KEY Z0A

ZJM DCTI

158 PMST

8A/FO TST 2 5

149 TOC 8 B62

4 TKS 5T

ZT0

ZKX

UY HMSA 2B 1 BII

ZPZ

UX

ZUW

ZUA N2 1

6C ZUT TACD L KEY 5

6A 148 CHT 5 L KEY

B62

1 2B DCT

ZUU PRUK 11

B2

BI

UX

TSE

TSE 92F1

III

KR 42A/A8

ZYT

KR 73C5

III

KR 92H6

77

KR 97D5

122

KR 97F5

TRUNK CKT

TRUNK LINK CKT

TRUNK LINK CONN CKT

AUTOMATIC CALL DISTRIBUTION MARKER CKT

F

TB-

BT-

TS-

-48

SIA

SI

MB

TF

TST

POI

PR

PF

PTGO-4

R-

MT-

PRU

ZUU

PRU 1U 2U 640 BI -48

F

TGC-4

TPT

R-

MT-

PRD

ZUU

PRD 1L 2L 640 BI -48

RCY

RYC

DCT I

BI

PRD

PRU

PRUK

PRDK 1L 2L 640 BI -48

ZUU

1

KR 120G3

PRU

PRUK 1U 2U 640 BI -48

ZPF

KR 121E6

ZUU

12

8T 7 KR

B1

XFT

BII XFT 4B 3 -48

ZUU PRU

BI ZUU PRUK 9 -48

ZUU PRD

BI ZUU PRDK 5 -48

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

2

SD-25800-01-841A

ISSUE 103A

PART OF FS 35B

CHANNEL AND ALLOTTER GROUP SELECTION AND JUNCTOR STEP POSITION CONTROL

STP1 L KEY 1 2 3A — KCH

STP2 L KEY 2 1 3C

STP 1 2 3T

JF CH SW. SECT.1 — 12 ALL — 0-9 1

FS,FT CHO-9 L KEY 2 1

4 5T KCH — B11

8A/F4

FX — FW — FX

86 LIDK L KEY 2 1 3C

FZ CHK -48

12 FZ CHK

25 TS3 6B 5 — MT7

YF — MT7

MT7

JF CH SW. SECT.2 — 12 ALL — 0-9 — 1-10 — TCH 0-9

ZXM — ZXN — KCH 6B 5 — ZXN — ZXO TSI3 28 1

FS,FT CHO-9 L KEY 3 4

MT-S CKT

MARKER CKT

MT7 -48

TCHO-9 -48

MT7

JF CH SW SECT 3 NBRDG — 12 ALL — 1,2,4,7 — 2,3,5,8 — 3,5,8 — 4,6,9 — 6,9 — 7,10 — 0 — 1

SECT 4 — 12 ALL — 1 — 2 — 2,3 — 3,4 — 4,5,6 — 5,6,7 — 0,7,8,9 — 1,8,9,10

0,1,2,4,7 EA — FT

B36 — FZ — ZZQ 6 — ZZQ — 87 LIK3 — EA — FT

12 — 1U 2U 640 — 87 LLAK

B36 — B34 -48 — FZ — ZZQ 7 — ZZQ — 87 LIK3 — EA — FT

87 LLBK — 1 — IL 2L 640 — 87 LLBK

FZ -48 — B34

87 LIK2 10 — LL — 25G2

0: CH1 L KEY 5 6 — CH2 L KEY 5 6 — CH4 L KEY 5 6 — CH7 L KEY 5 6

1: CH1 L KEY 7 8 — CH3 L KEY 5 6 — CH5 L KEY 5 6 — CH8 L KEY 5 6

2: CH2 L KEY 7 8 — CH3 L KEY 7 8 — CH6 L KEY 5 6 — CH9 L KEY 5 6

4: CH0 L KEY 5 6 — CH4 L KEY 7 8 — CH5 L KEY 7 8 — CH6 L KEY 7 8

7: CH0 L KEY 7 8 — CH7 L KEY 7 8 — CH8 L KEY 7 8 — CH9 L KEY 7 8

0,1,2,4,7

(SEE NOTE 1) LL0,1,2,4,7 — 1-5 109 NTRE — IN 86 KLL 1-5 IN — 0,1,2,4,7 EA — FT

87 (SEE NOTE 1) LL0,1,2,4,7 — 1-5 LIK3

LL0,1,2,4,7 — IU 2U 640 834 -48

12 LL0,1,2,4,7

LL — 3 RIA — 83A9

MTFC CKT — MARKER CKT LL0,1,2,4,7 -48

TRANSFER REGISTER IDENTIFICATION CONNECTOR CKT (IDENTIFICATION PART) — TRANSFER REGISTER IDENTIFICATION CONNECTOR CKT (REGISTER PART)

TST — ID- — RI-

LL (1/10, 2/5) — LL- -48

TRANSFER LINE IDENTIFICATION AND CONNECTOR CKT — TRANSFER REGISTER CKT

NOTES:
1. CONTACTS 1,2,3,4,5 CORRESPOND TO LEADS 0,1,2,4,7 RESPECTIVELY.

ISSUE 98B

MASTER TEST CONTROL CIRC

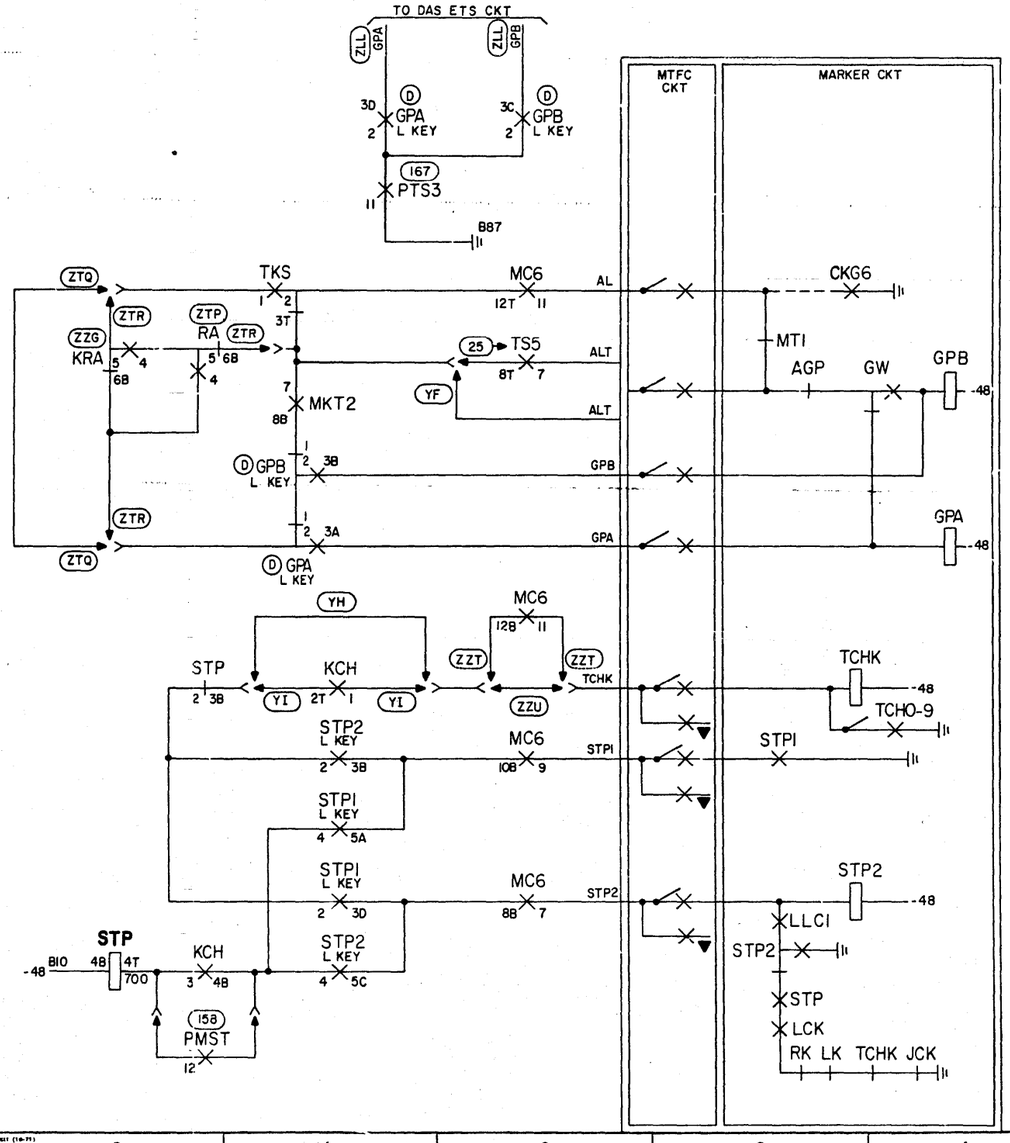
SD-25800-01-B41B

BELL TELEPHONE LABORATORIES INCORPORATED

63

PART OF FS 35B

CHANNEL AND ALLOTTER GROUP
SELECTION AND JUNCTOR STEP
POSITION CONTROL



ISSUE 96B

MASTER TEST CONTROL CIRCUIT	SD-25800-01-B41C
BELL TELEPHONE LABORATORIES INCORPORATED	6S

SD-25800-01-B42A

PART OF FS 36
ROUTE ADVANCE AND TRUNK SELECTION CONTROL

MARKER CKT | MTFC CKT

TBTA, MTI, TGTI, GPI, ASB, MTI, GPI, LSC2, RAVI,2 -48

TTM, TBT, TA, FTCK, AV -48, AVG -48, GPA, MTIO

FTC-, FS-, MTI, TA -48, TLCI

RCY, RCYI -48, FM

TB: MC6 5 6B; KRA 2 3B, 1; SRT2 2 1, 3B; 6T 5B BI 950 -48; 5T 4; KRG; KR BI, 6HO 4T 3

TBT: RA 2 1, 3B; TS5 9 10T (25) (VF); 3T 2 1 TKT2

TGTI: ACDI 10; U L BI 700 -48; 8; (120)

SB: MC6 3 4B; KRA 2 3T, 1; SRT2 2 1, 3T; (J) SB 6T 5B BI 950 -48; 5T 4; (FD) RCY

SBT: RA 2 1, 3T; TS5 11 12T (25) (YF); 3B 2 1 TKT2

(FD) RCY B34 -48; TGTI; (120) TGTI BI -48; 12; TB; TB B6 -48; 4B 3; (J) SB; (J) SB B6 -48; 4B 3

RA: (YL) KRA 5B, 10T 4,9 (YL); (YM) MC4 9 10B (YM); (ZZF,ZZG)

(LS) RAV 4T 4B B9 700 -48

RA1' 2 3T, 1; RAI 4T 4B B9 700 -48; RA1' 4B 6T 700; 2T 1

RA2' 2 3T, 1; RA2 4T 4B B9 700 -48; RA2' 4B 6T 700; 2T 1

RA3' 2 3T, 1; RA3 4T 4B B9 700 -48; RA3' 4B 6T 700; 2T 1; (LG)

(QF) RA4' 2 3T, 1; RA4 4T 4B B9 700 -48; RA4' 4B 6T 700; 2T 1

2 3T RA5'; RA5 4T 4B B9 700 -48; RA5' 4B 6T 700; 2T 1; (QF); (LG); (LG); A 42B/H9; (LS)

(FD) RCY -48 B31 L U 700

(GM) MC18 7 8B; RCY; 12; (FD) RCY; (FD)

KRA B11 8T 7 (YL); (YM)

AV: (BK) TSI2 7 8T; AV 120 8; AV 120 1U 2U BI 640 -48

AVG: (BK) TSI2 (ZZW) (ZUV) 1 2T; (ZUU) PRD (ZUW) 3 BI (ZUW) (ZUV); AVG 120 5; AVG 120 1L 2L BI 640 -48; (ZZW); (YM); (ZLA) KRI 95A/G3; (ZLB); KR 8T 7 BI; 41A/A2

(ZZW) TSR; (ZZW) (155) SNR 10; (ZNM); AV 120 10 30; AVG 120 3 3C; TSRI (CO) TSII 11 12T; AV 120 L KEY; AVG 120 L KEY; (ZZW) (155) IFL

120 AV B1 -48 12; 120 AVG B1 -48 1

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S | 2 | SD-25800-01-B42A

96B DRAWING ISSUE

75B | 70A LFP | 670 A3 LX | DRAWING ISSUE

SD-25800-01-B428

PART OF FS 36

ROUTE ADVANCE AND TRUNK SELECTION CONTROL

MTFC CKT

MARKER CKT

AVG

AVG L KEY

FM PERT L KEY

XO MFC

FM PEMT L KEY

FD KRA

120

ZZV

ZNL

FL

RO

FK

MC6

FTCK

-48

155

IFL

SNR

51 CPN L KEY

51 ITRK

3A ZZR,ZZS AN L KEY

FD RCY

FD

RA

ZQF

ZQE

25 TS5

FTC

YF

MTI

MTI8

RCY!

FTCO-29

TBC

VG

WSD

VF

MC6

FCK

QE RAO,2 L KEY

KMT9

QE RAI,3 L KEY

QF RA SW SECT I

12 ALL 0-5 1-6

1B RA SW SECT I

1B ALL 0-11 1-12

CG RAU SW SECT I

ALL POSITIONS EXCEPT OFF

12 ALL

TKS MC6

ZZK KR3

104FO

KR

158 PSG

ZQR MC23

ZOA

PSG

GT5

158 ROH

ROH

ZZF,ZZG KRA

ZPZ

PMST

158 PSA

PSI

B70 158 PSG

B70 158 ROH

FS 37

ROUTE ADVANCE COUNTER

LS RAP3 LS P3A

LS RAP4 LS P4A

LS RAP5 LS P5A

RAPI

RAP2

RAV

RAP3

RAP4

RAP5

99 RATB

99 RATA

99 RAT2

99 RATI

DJ

DK

LS

KR

42A/A6

P4A

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

65

2

SD-25800-01-B428

101A

DRAWING ISSUE

67A

670

FCK

FS 38
ROUTE ADVANCE CONTROL

RA SW SECT 2 — 1-6 | 0-5 | ALL | 12

RA3 L KEY — RA2 L KEY — RA1 L KEY — RA0 L KEY

RA5' — RA4' — RA3' — RA2' — RA1'

KRA — ZZF, ZZG — B11 — 78,88 — 6,7

RAP1 — RAP2 — RAP5 — P4A — P3A — RAP3 — RAP4

RAU SW SECT. 2 — 1,2 | 0,1 | ALL | 12

RAU SW SECT. 3 — 1-10 | 0-9 | ALL | 12

RA SW SECT 2 — 1-10 | 0-9 | ALL | 18 — 11,12 | 10,11

RA — ZTJ, ZTP — 6T, 10T — 6B, 10B — B9 — 700 — 48

RAC — 15B → PMST — 11 — 2L — 640 — B85 — 48

RAT1 — RAT2 — RATA — RATB — 1L — 2L — 640 — B39 — 48

KRI — 9 — 10B — 75H6

RAPS — RAT1 — RAO — RA6 — RA2 — RA10 — RA1 — RA4 — RA8 — RA11 — RA5 — RA7 — RA3 — RA9

DRAWING ISSUE

	OK
58D	
61A	

ISSUE 96B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-B843

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

STABILO

SD-25800-01-B843

FS 39A
TRUNK LINK FRAME SELECTION

10581 WBT
ZWN
B2 XH TS 7 88 UN
79,80 FG1 L KEY 2 1 3D
FS1 13T 13B 950 B26 -48
79,80 FG2 L KEY 2 1 3C
FS2 13T 13B 950 B26 -48
FS0 13T 13B 950 B26 -48

TRK OR ORIG REG CKT
TRK LK & CONN CKT
XFT -48
MKR CKT

FTC 20-29 A B MT24 -48
MT29
FTC 10-19 A B MT14 -48
MT19
FTC0-9 A B MT4 -48
MT9

FTC 20-29 0-9
FTC 10-19 0-9
FTC 0-9

A FS2 9 9 108 8 7 8B 7 5 6B 6 3 4B 5 1 2B 4 9 10T 3 7 8T 2 5 6T 1 3 4T 0 1 2T

A FS1 0-9
A FS0 0-9
A (UM) TS8 0-9
(YO) TS9 0-9
25 0-9
YF
25

(V) 0-9 80 1-10 0-9 ALL 12
FS SW SECT 1
79
FSO-9 L KEY 1 2
79 80 ON
(U) LT 55 TRF1 10 55 RE 12 LT
KFS KMT9 4 5B 2 3B 1
FTC R B10 -48
ZZW 1 VGA 2T ZZV
KHGT 11 12T
VF KTF 7 8B XFT 28 1 MC6 6T 5
VG WSD 5 6T 4 B11
MAKI
MTFC CKT
DT OR COMPL MKR CKT MAKI

(U) FSO-9 L KEY 8 7 (P) FG1 L KEY 3B 2
(U) FSO-9 L KEY 6 5 (P) FG0 L KEY 3D 2

TSQ SW SECT 1 NBRDG
B10 11 ALL 0-9 1-10
ACDA 160 1 MT30 -48
TSA L KEY 2 3D
KTSQ B8 -48 2L 1L 640 ACDA 2 160 KTSQ -48
KTSQA B8 -48 2U 1U 640 KTSQ 1 160 KTSQA
ACDA 3 12
KTSQA 10 TSA L KEY 5 6D 160 TSA -48
TSQ SW SECT 3 NBRDG
B10 KTSQA 11 ALL 0-9 1-10 160 TSQ0-9 -48

MTFC
ACD MARKER
MT31 MT30 -48
LE LOD
MT31 MT31 -48
MT31
TSA
TSA -48
MT31
TSQ0-9 -48
MT30

(B) ACD OR DIAL TONE MARKER CKT
(A) COMPLETING MARKER CKT

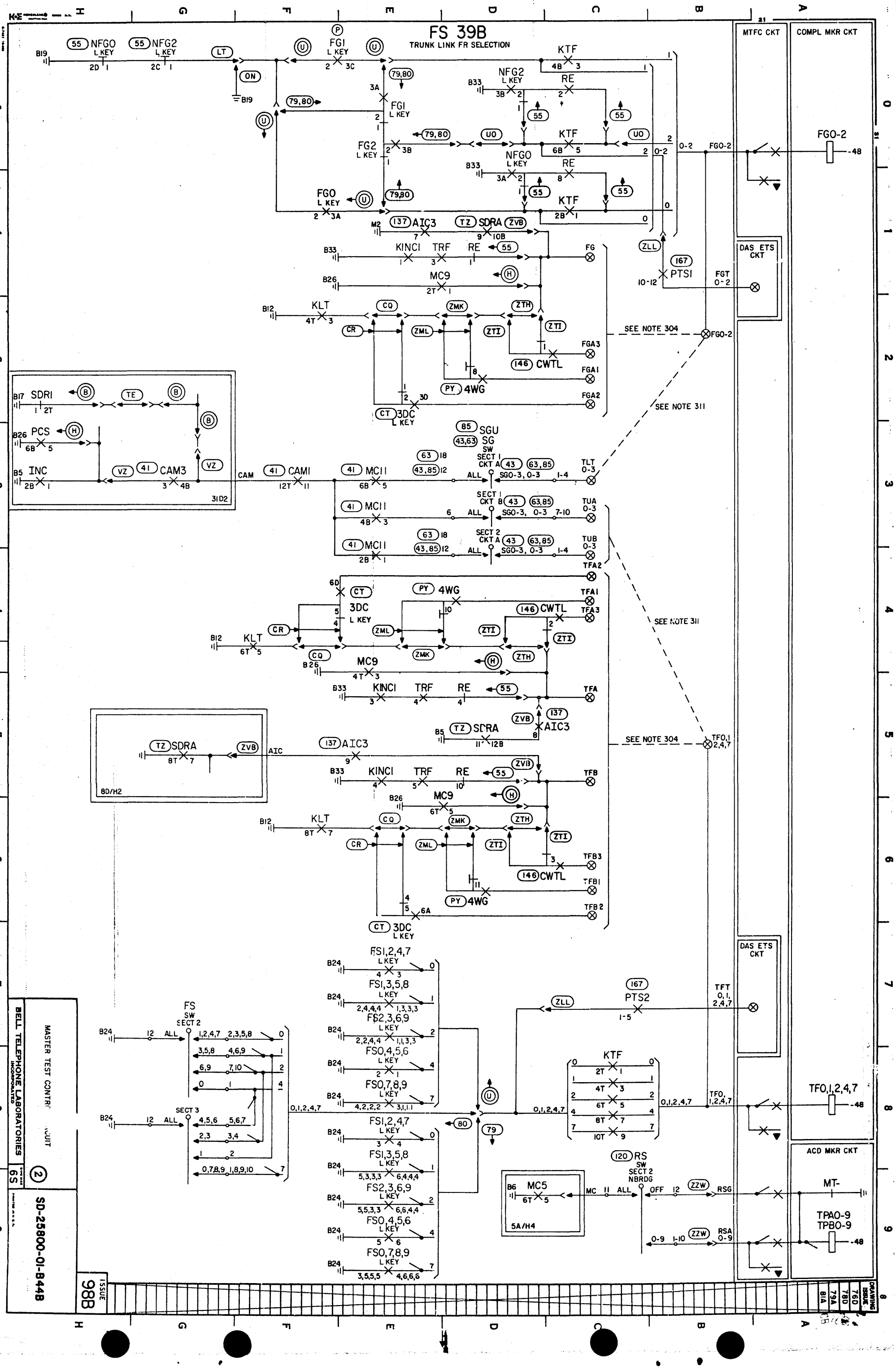
ISSUE 98B
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-B44A
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

SD-25800-01-B44A

76D

SD-25800-01-B44B

FS 39B
TRUNK LINK FR SELECTION



BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S

2

SD-25800-01-B44B

ISSUE 98B

DRAWING ISSUE: 81A 79A 78D 76D

TRUNK OR ORIGINATING REGISTER CKT | TRUNK LINK CKT | TLC | MARKER CKT

FS 40
TRUNK OR ORIGINATING REGISTER SELECTION

WIRE SPRING DIAL TONE MARKERS OR ACD MARKERS ONLY

STL1-4 STXA XTG1 LST STL1 STL2 STL3 STL4 STL5 MT31 TSE1 STOK STKA DCT1 TT9 TSE2 MT5 TS9 TT0 TSO TT1 TTMA MT6 OT OTS ETS

TS7 TS6 TS10 TS1-19 (ODD) L KEY TSO-18 (EVEN) L KEY TSU SW SECT. 1 SECT. 2 SECT. 3 SECT. 4 TSTI L KEY TSO-9 L KEY KTS PTS PTS3 PTS4 MTTK FPS FP TTS KRI TT

WSD SKFP SKF MC20 TS10-19 TO DAS ETS TS0-9 TO DAS ETS TS0-4 TS5-9

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-845

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

PART OF FS 41
SENDER SELECTION

COMPL MKR CRT | MTFC CKT

OSG0-11 -48

OSG0 OSG1 OSG2 OSG3 OSG4 OSG5 OSG6 OSG7 OSG8 OSG9 OSG10 OSG11

KOSA KOSG (36)→(1ST) (36)→(2ND) (36)→(3RD) (36)→(4TH) (36)→(5TH) (36)→(6TH) (36)→(7TH) (36)→(8TH) (36)→(9TH) (36)→(10TH) (36)→(11TH) (36)→(12TH)

OSG0-9 (TH) OSG10,11 — 6T 6B 8B 950 -48

OSG0-4 — 5T 5B 8B 700 -48

SGU SW SECT. 4 — 0-9 1-10 0-9 ALL 12 — (63) (85)

SGU SW SECT. 5 — 1,2 0,1 ALL 12 3A 2 1 SGT1 L KEY

SG SW SECT. 4 — 0-9 1-10 0-9 ALL 18 — 10,11 11,12 10,11 (63) (85)

(60) 5 6T 5SG LLPK

TERT SW — 3SG KTBS TERK -48 — 30DG

OSG0 (1ST) 16 (-16) (1ST) 8 SGA L KEY 2 3B KOSG 12T 11 S1A

OSG1-4 (1ST) 16 (1ST) 16 (2ND-5TH) SGA L KEY 2 3B (35) KOSA 12B 11 S1A

OSG1-9 (TH) OSG10-11 (36) (1ST) 36 (1ST) SGB L KEY 2 3C KOSG 10T 9 S1B

OSG0 (2ND-12TH) (1ST) 36 (1ST) (-16) (35) SGB L KEY 2 3A (35) KOSA 12T 11 S1B

MTFC CKT | COMPL MKR CRT — SIA -48 — SIB -48

JACK, LAMP & KEY CKT.

SSA SST1 SSB SST1 SSA SST1 SSA SST1 SSA SST1 SSB SST1 SSB SST1 SSB SST1 SSB SST1

MBA0 MBA1 MBA2 MBA3 MBA4 MBA5 MBA6 MBA7 MBA8 MBA9 MBA10 MBA11 MBB0 MBB1 MBB2 MBB3 MBB4 MBB5 MBB6 MBB7 MBB8 MBB9 MBB10 MBB11

(8) (18)→(1ST-5TH) MBA0-4 — OSG0-4 — (36)→(1ST-5TH) MBA0-4 — OSG0-4

(-18) (1ST-5TH) (35)

(35) (36)→(6TH-12TH) MBA5-11 — OSG5-9 (TH) OSG10-11

(8) (18)→(1ST-5TH) MBB0-4 — OSG0-4 — (36)→(1ST-5TH) MBB0-4 — OSG0-4

(-18) (1ST-5TH) (35)

(35) (36)→(6TH-12TH) MBB5-11 — OSG5-9 (TH) OSG10,11

DRAWING ISSUE: 3SD JHT RM AHO

ISSUE 93A

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-B46
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B46

STABILO

SD-25800-01-847

STABILO

PART OF FS 41
SENDER SELECTION

MTFC CKT

MT2

-48

OSE1

SON

OS(0-4)
OSE

TOS(0-4)

OUT SDR CONN CKT
OSGA/
OSGB

SDR CKT
SB
MB

T1

TOS0 YF 83 84 0
TOS0 TS4 25 1 2T 83 84 8 0
TOS0 YF 0
TOS1 YF 83 84 1
TOS1 TS4 25 3 4T 89 84 8 1
TOS1 YF 1
TOS2 YF 83 84 2
TOS2 TS4 25 5 6T 83 84 8 2
TOS2 YF 2
TOS3 YF 83 84 3
TOS3 TS4 25 7 8T 83 84 8 3
TOS3 YF 3
TOS4 YF 83 84 4
TOS4 TS4 25 9 10T 83 84 8 4
TOS4 YF 4

83 OS 0-4 L KEY 4 3

84 OS SW SECT. 1 — 1-5 0-4 ALL
84 OS SW SECT. 2 — 12 13 ALL 0-4 1-5

8 OS 0-4 L KEY 4 3

COMPLETING MARKER CKT

MTFC CKT

0 83 84 X KOSA OS0 13
KOSA OS0 2T 1 W
1 OS0
1 83 84 X KOSA OS1 14
KOSA OS1 4T 3 W
1 OS1
2 83 84 X KOSA OS2 15
KOSA OS2 6T 5 W
2 OS2
3 83 84 X KOSA OS3 16
KOSA OS3 8T 7 W
3 OS3
4 83 84 X KOSA OS4 17
KOSA OS4 10T 9 W
4 OS4

B3 R4

OS(0-4) — -48

COMPLETING MARKER CKT

SGA L KEY 2A 1
SGB L KEY 2B 1
B19 8,35 25 TS4 ASB 2B 1
B9 ASB 1 2T 8,35 YF ASB

ASB MT2 ITR2 TGS1 OSK ASB -48
SCB1
MT2
ASB
SON
SIB SIA

KOSA
HMSA 53A/G9
UY
13T 13B B8 700 -48
B5 MC3 10B 9 35 KOS 7T 6 35 W X
KOSA U L B8 700 -48
8
KOS 7T 6
KOSG 13T 13B B8 700 -48
B9 W KOSA 12T 11
W KOSG 13T 13B B8 700 -48

35 ASB
B9 35 KOS 5B 4 35 SSA 11 12T 35 SSB 11 12T 3T 3B B8 880 -48
8 ASB
B10 8 KOS 5B 4 8 SSA 9 10T 8 SSB 9 10T 3T 3B B8 880 -48
8 SSTI
B10 8 KOS 7B 6 8 OSK 1 2T 13T 13B B8 700 -48

SKA SSA -48
SSA
OSK
SSB
SKB SSB -48
C7 R4
OSE OSE1 OSK -48
OSK
C7 SA7

8 KOSG SSA 9 10B
8 SSA 13T 13B B8 700 -48
SSA KOSA 9 10B W
SSA KOSA 21 X 35 OSK 1 2B SSA 13T 13B B8 700 -48
TH OSK 1 2T TH 7T 5B B8 700 -48 SSAA
8 SSB
8 KOSG SSB 11 12B 13T 13B B8 700 -48
SSB KOSA 7 8B W
SSB KOSA 25 X 35 OSK 3 4B SSB 13T 13B B8 700 -48
TH OSK 3 4T TH 7T 5B B8 700 -48 SSBA
6 KOSG 7 8T
OSK ZVH W X KOSA 11 12B,22 ZVH 6T,7T 6B,7B B8 700,950 -48 8,35 OSK
ZVI ZVI
ZVG MC22 11
B5 171 SDR1 B8B 8

ORIG B5 4B 3 8,35 OSS L KEY 2 3D 10T 6B B8 2500 -48
KOS 8 9T
INC B5 4B 3
OGT B6 6T 5
MISC B6 8T 7
IAO B6 4B 3
ITDO B6 6T 5
ITP B6 6T 5 Z0
PCS B26 4B 3 H
IMS 22 B6 6T 5 22
SDR 6T 5 A
B
41 IMT1 B31 10T 9 VZ
SDR1 B17 9 10T VZ B
41 CAM3 7 8B

C7 R4
C7 R4
C7 SA7

BELL TELEPHONE LABORATORIES INCORPORATED
MASTER TEST CONTROL CIRCUIT
6S 2 SD-25800-01-R47
ISSUE 988
DRAWING ISSUE 710 R.J.F. DB

H G F E D C B A
0 1 2 3 4 5 6 7 8 9
21 31

FS 42A
TRUNK TESTING

TRK TEST CKT

TRK LINK CKT

48C/E4

146 CWTV S 118F3

TLK L KEY LLP

LPS

ZTI ZTH

TM ST LLP

LLS -48

TM JK

PK

T R P

GP GQ ET,ES LO L KEY 2 3B 1

ET,ES LO L KEY 2 3C GS LO 12 GQ DV SRTI 4T 3 DU

BI KR NI 3 48 48 3 96A/H3 LO GQ GS LO 1500

GS LO 1 4 2 6 GS LO U L B32 2500 -48

146 CWTV 12 146 CWOR 12

146 CWTV 9 146 CWOR 9

118E

50A/H5

ORT AR TO 31 GP GQ

ORT JK ORT

ORT AQ RO 31 BU 108 TDV 8 BU BS 31

SRGI 2 38

SRG INDR 4 40 3 2 400 1

UF SRG 1000 UF,UG

SRG2 3 48

TO 4 WIRE LINE CKT (4W TOLL ORIG TEST LINE)

CPO

31 SRGI SO 6T 68 B2 700 -48

49 TI RI

4WT

TLK L KEY TLK L KEY

48C/A2

ORTI JK

GS LO B35 GS LO -48

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-848A

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-848A

DRAWING ISSUE 780 800

FS 42B
REGISTER AND SENDER TESTING

SENDER TEST SET CKT

SENDER TEST CKT

TTC

-48

SDTI

MTT

ZZW

IIB/F6 CLK

N

24

MTT 3 X 48

829

4W

4W 1 X 2B

49

SDT 4 X 5T

RJ

812

T

P

R

TI

RI

DISC

OL

ICX

OF

PCT

REC JK

A

B

50A/F5

SDT

STG

22

X7 IMS 1000

IMSI 8 X 9T

85

LPS

48C/E3

AUTO. MONITOR REG & SDR TEST CKT

IOT 8 X 9 SDT

SRTI 6 X 7B

YR,YS NI 4,3 X 5B,4B

KR 4B 3

BI

95A/D5

BT2

CBRI,DLRI,MLRI

LLSI DISI ONS LLS

RRL

RRL'

RIRI,ROSI

TO PULSE SOURCES (DP,MF,RP,& PB)

STT

COS2,DOR2, DOS2,MOS2

COSI,DORI, DOSI,MOSI

AR

DRAWING ISSUE
73D
78D
79A
82D

82

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-848B

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-848B

FS 42C
REGISTER SENDER AND TRUNK TESTING

TO MISC CKT
TO LINE CKT
4WTR
4WTT
48A/H0
MASTER TEST FRAME TEL, KEY AND LAMP CKT
MASTER TEST FRAME VOLTMETER TEST CKT
LINE IDENT PWR SUPPLY CKT
52C4
80A4
87 ID
GI
GH
TRUNK TEST CKT
TO LINE LINK CKT
LPS
48A/A8
AUTO MONITOR SENDER & TEST CKT
48B/E9
TRUNK CKT (4-WIRE ONAL)
TTI
IN
-48
TTI
E
INC
C
ZXO TSI3
6T 5
ZTB
LSI
LS2
UY HMSA
ZTC 40NL L KEY
ZXT, ZXU NAH L KEY
NARL NL KEY
LTI
CWTH
AIC
AILT
DAPI
LLP2
LLP3
3DC
ZVC
ZJU
ZJV
AA
AD
AE
CQ
CR
S(1)
TRUNK LINK CKT (2-WIRE)
TRUNK CKT APPEARANCE FOR MTC LINE TEST TRUNK APPEARANCE
SEE NOTE 319
T(1)
R(1)
S(2)
R(2)
T(2)
TRUNK CKT APPEARANCE FOR MTC 3DC LINE TEST TRUNK APPEARANCE
ISSUE 102B
MASTER TEST CONTROL CIRCUIT
2
SD-25800-01-B48C
BELL TELEPHONE LABORATORIES
6S

730
760
780
STA
SRD

SD-25800-01-B48C

PART OF FS 43
CAMA TESTS

CAMA POSITION LINK CKT

CAMA SENDER CKT

REG & CAMA SDR TEST CKT

INC REG LINK CKT

TRUNK TEST CKT

OUTGOING SENDER LINK ASSOC WITH CAMA SENDERS

SIGNALING RECEIVING CKT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-849A

ISSUE 97A

PART OF FS 43
CAMA TESTS

SDR TEST SET CKT

REG & CAMA SDR TEST CKT

CAMA POSITION LINK CKT

TRUNK TEST CKT

RR

P

STT NL KEY

RL NL KEY

IAOF

ST

MFI

STI ATNT CAMA AI L KEY

RR TN 40 CAM6 9 10B TN 41 CSR 6 7T B30

ZPP 40 L CI PD RO STI

17 CAM6 6 7T 40 Q R P 3 4T B30

40 TBC 3 4T B27 -48 1 ZPP 40 PD CI PD -48

PDR CAM6 40 5 4 6B Q R PDR 3T 1B 700 B27 -48

-48 ST ST

18 40 CAM6 4 5T TBC 7T 7B 2.5kΩ B27 -48

PI

B30 PI 48 3 P 2B 1 4T 5B 2.5kΩ B27 -48

3 40 R PI 1 2B 4 7 3 ROCP B30

ZOM ZMN,ZMO

B31 ZOK RPLS L KEY 2 3B 12T,U 10B,L 2.5kΩ B28 -48

-48 MFI MF 40 CAM6 8 9T B30 40

0V TN 41 TTAI 5 6B B30

OQ AT 78E5

3D 55 CNTX L KEY 2 1

B33 OQ 0V OU 0V 41 TN TTAI 9T 9B 2.5kΩ B28 -48

TTAI

ISSUE 97A

MASTER TEST CONTROL CIRCUIT

SD-25800-01-849B

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-25800-01-B50A

FS 44A

ORIGINATING TEST LINE CONTROL
TIP AND RING

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (2-WIRE)

LINE CKT APPEARANCE FOR 3DC ORIGINATING TEST LINE

LINE CKT APPEARANCE FOR REGULAR ORIGINATING TEST LINE

LINE CKT APPEARANCE FOR ACD CALL TRANSFER ORIGINATING TEST LINE

NO. TEST CONNECTOR CKT (2-WIRE) OR AUTOMATIC CALL DISTRIBUTION LINE LINK CKT

NO TEST VERTICALS

ACCESS TEST LINE CKT

REMOTE SWITCH ORIGINATING TEST LINE FOR WIDEBAND REMOTE SWITCH

TO ALL OTHER TEST TRUNKS FOR WIDEBAND REMOTE SWITCH

LINE CKT APPEARANCE FOR BIT-STREAM TANDEM ORIGINATING TEST LINE

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (2-WIRE ARRANGED FOR WIDE-BAND/BIT-STREAM)

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (4-WIRE)

LINE CKT APPEARANCE

NO. TEST CONNECTOR CKT (4-WIRE)

SEE NOTE 319

SEE NOTE 327

MTF JACK, LAMP, & KEY CKT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B50A

DRAWING ISSUE 101A

SD-25800-01-850B

FS 44B

ORIGINATING TEST LINE CONTROL SLEEVE

ACCESS TEST LINE CKT

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (2-WIRE ARRANGED FOR WIDEBAND/BIT-STREAM)

(135) WTLHI 10 — S — T I

(ZPI) BSTK 9 — S(i)

(ZPH)

HOLD

LINE CKT APPEARANCE FOR TANDEM BIT-STREAM ORIGINATING TEST LINE

NO TEST CONNECTOR CKT (2-WIRE) OR AUTOMATIC CALL DISTRIBUTION LINE LINK CKT

NO TEST VERTICALS

S

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (2-WIRE)

LINE CKT APPEARANCE FOR 3DC ORIGINATING TEST LINE

(102) 3DC 10 — S(2) — -48

LINE CKT APPEARANCE FOR REGULAR ORIGINATING TEST LINE

CR CR (CQ) (ZPE) S(1) -48

3 S(3) — LINE CKT APPEARANCE FOR ACD CALL TRANSFER ORIGINATING TEST LINE

(156) TRF

NO TEST CONNECTER CKT (4-WIRE)

LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (4-WIRE)

LINE CKT APPEARANCE — HOLD — -48

TRUNK TEST CKT

AS AS -48

TAN S 50B/F7 — S TOLL ORIGINATING TEST LINE SLEEVE

TOL TAS AJ -48

TF -48

TFB

(M) FT 4 5T

(M) LS 5T 3E 2500 B12 -48

(M) FT 4B 3

(M) LS 3 4T

2T (M) LS

1 3T (M) FT 2

(M) TKT3 2 1 3B

(135) WDCI 8 — (ZPM) TKT3A 11 — (ZWN)

B12 KINC 4B 3 — (M) SDR3 3B 1 2

(H) PCS 3 4T

S 5 6T

B12 (H) FB 7T 6 — (H) DS 5T 4 — S 7T 5B 2500 B20 -48

B12 (ZQ) (M) LS 2B 1 (ZQ) TFT -48

B14 NTH 11 12T 11 (ZZW) (120) NTS 1L 2L 640 B1 -48

118E5 S

(ZTI) NTH 12T 11 (ZZV) (120) NTS 1 (ZZV)

(RJ) S

(ZWN)

(MX) (RI) 3B 2 1 S (MX) (49) 4WF

4 (109) REX (ZO)

(31) ORT 1 2B

(149) CHT 10

AS

(149) CHT 3 KRI (ZTO) 4 (ZTI,ZTO) (ZZK) KR3 117G8

(148) CHT L KEY 2 3A — (149) CHT U L 700 B79 -48

CHT1 CHT 63A/D6 2 3B LP

(ZTO) ZVG 2 MC22 (ZTI,ZTO) 116C0

= B46

MARKER CKT

MTFC CKT

52B/E6, F6

NTC1 7 8 9T — NTC1 NTC1

LXP

LS 6B 5 4 (M) SDR3

TRUNK TEST CKT

WIDEBAND/BIT-STREAM TEST LINE DISTRIBUTION

OTLO

BOTLOO-39

S

TL L KEY TAN S 50B/B5 WOCG WOCG LSI

E I LS

SENDER TEST CKT

ICX

DISC PCT SDTI LS

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

CXI CXI

PCT DISC ONS PCT STT LS

B5 (22) IMSI 2T 1

MASTER TEST CONTROL CIRCUIT

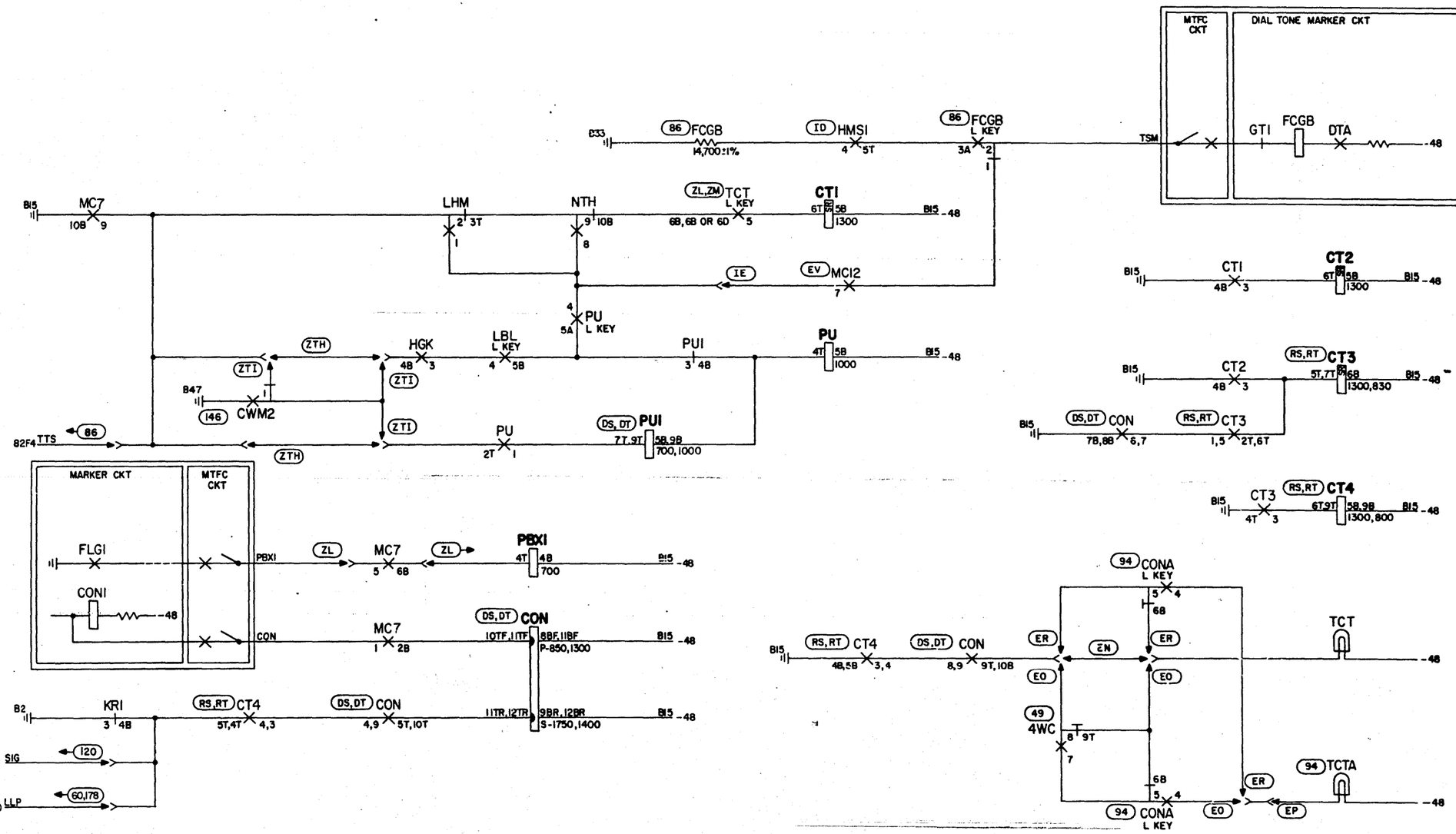
BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-850B

DRAWING ISSUE 101A

83A	82D	78D	77A	76D	74A	72A	71D

PART OF FS 45
MARKER CONTINUITY TESTING



DRAWING ISSUE
650 THL AMS AK GMF DT
870
76D
78D
81A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-851A

6S

SD-25800-01-851A

PART OF FS 45

MARKER CONTINUITY TESTING

MTFC CKT | MARKER CKT

DRAWING ISSUE: 65D, 67D, 68A, 70A CH CB, 71D RJF, 76D

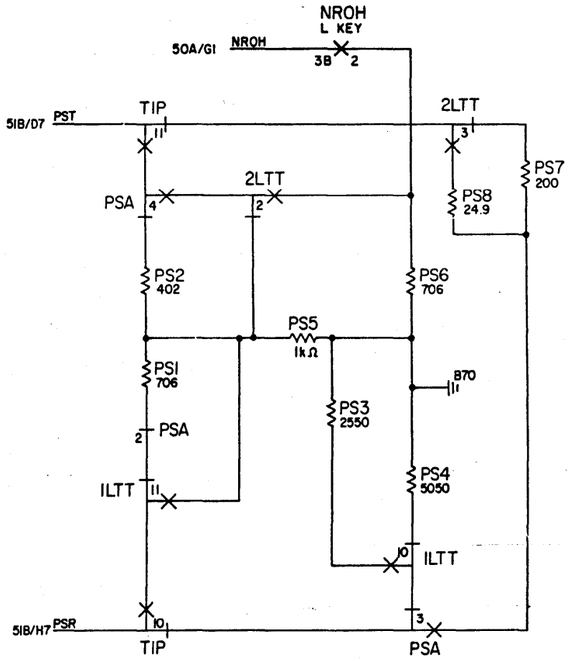
SD-25800-01-B51B

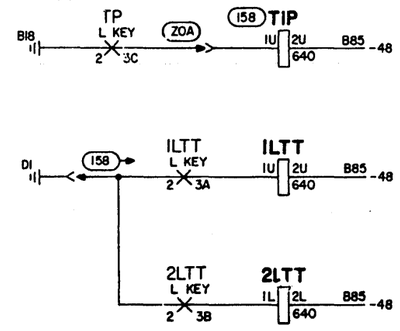
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B51B

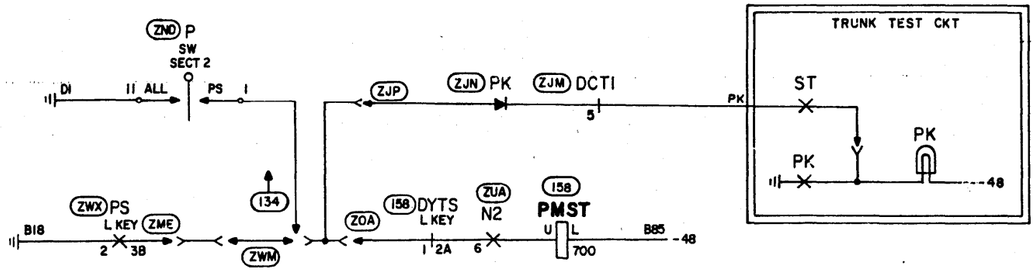
BELL TELEPHONE LABORATORIES INCORPORATED 6S

ISSUE 100B

FS 134
PERMANENT SIGNAL
TEST CONTROL







ISSUE
107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-B51C

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

SD-25800-01-B51C

FS 46A

SIMULATED SLEEVE AND JUNCTOR OPERATION AND SURGE OPERATION TEST

MARKER CKT | MTFC CKT

SLA — SL — WY — BRT — WY — HMSI (28, 1; 94, 94) — WY — BTT

518/A8

B6 — S 10 — S 80A5

10T — MC5 9 — FCG L KEY 2 30

518/G8 — TTT — TRT

TRB2 DCTI — BST

KINC 11 12B — KLT 5 68

3T 2 1 FB — JHM 1 2T

5T — JHM 4 — WY — VK — VL

TGCK — TLH

25 — VJ — TSIO 9 108 — VJ — VE — VE

KINC 5 6T — KLT 7 88 — LC 1 2T

ZWM — ZWN — 1 2 38 — WTLH 108D6

ZWN — 134 — WSOT L KEY

38 — TLH .1 MEG — MKT3 9 10T — MKT3 8T 7 — B5

TLH — 1 + S-30,000 6 − 5 − P-200 2 + — MKT3 11 12T — TLH 7 3 — TLH — 38 — - 48

B5

LLJ — 25 — TS3 5 6T — 25 — YP — YP

ZWM — ZWN — 4 5 6B — WLLJ 108D6

LLJ — 1 + S-30,000 6 − 5 − P-200 2 + — MKT3 4T 3 — MKT3 1 2T — LLJ .1 MEG — 38

MKT3 1 2B — LLJ 7 3 — LLJ — 38 — - 48

ZWM — ZWN — 1 2 3C — WLHM 108H4 — A 52B/E0

ZWN — 134 — WSOT L KEY

LHMT — 1 + S-30,000 6 − 5 − P-200 2 + — MKT3 6B 5 — MKT3 3 4B — LHMT .1 MEG — 38

LHMT 7 3 — LHMT — 38 — - 48

VL — VK — 38 1 2 SL — SL 4T 48 700 — 815 — - 48

JHM 6T 68 1500 — 812 — - 48

2B 1 JHM — B 52B/B5

DRAWING ISSUE 8

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B52A

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-25800-01-B52A

0 1 2 3 4 5 6 7 8 9

A B C D E F G H

FS 46B

SIMULATED LINE LINK AND LINE LINK HOLD MAGNET OPERATION

MARKER CKT
HGK MTII
LHC
VV SQ LHC LHC -48
LINE VERIF CKT
25 TS5 5 68 VV VW VV VW
VU LHC 7T 78 BI 700 -48

TSTB SW SECT.4
B19 ZTO 74 ALL IAO 3 74 68 68
IAO L KEY 2 3C
149 CHT 12
IAOC 1L 2L B79 640 -48

B14 LHM 2B 1 RS,RT LHMA 4T,7T 58 B13 1500,700 -48
B5 INC 88 7 NTH 79 6 137 LR 11507

52A/C8 B LHMA 1 2T
LHM 4T 58 B13 -48
LHM 300 1500
XLH L KEY 3D OR 3B 2
XLH 3000 B13 -48

IF IG 2 86 NTC3
NTH 13T 138 B13 1500 -48
86 NTH2 U L 1625 B33 -48
EY,EZ B32,B35 EY,EZ NTHI 5T,10 4,- MX RI
EY,EZ NTHI 6T,1U 68,2U 1500 B29,B32 -48

B8 KV 68 5 HGK 2B 1 MKT1 4Y 3 146 CWMI 3
25H6 VFT
PUI 2T 1 DS,DT PUI 6T,8T 5,7
3C OR 3A LB L KEY 2 1
3C LBL L KEY 2 1
ZSS ZQH MKT2 10B 9 ZSS ZQH ZSS
52A/F4 A
ZTN ZJU ZTO ZJV 149 IAOC 1 ZTO
ZTO ZJV 60,178 LLPK 8,9 9T,10T 7,8 ZJV
ZJV ZJB LHMT 9E4 LHM ZJB ZJA SCB 2 1 3T ZJA
ZTO 2 149 IAOC ZTO
ZTN OT
ON LT LT 3B 2 1 55 CGLS L KEY LT ON
J,K LT 6B,10B 5,9 SRT2 5B 4 TKT1 2T 1 LVI 5T 4 ZWM 135 WLVI ZWM
ZUE IAOI 1 2 3B ZZZ SCBI 1
ZJQ ZJR ZJR ZJR
3B 2 1 NTC1 4 5 6B NTC1
MKT2 1 2B MC7 12B 11 149 CHT 7 ZTI ZTH ZJQ ZJR
KRI 9 10T RI 49 4WB 3B 2 1 MX

TRANSFER LINE LINK CKT
TSI NTH2 7 TSI 86 82D4
TRK TEST CKT
AS ORT NTC1 S AS TAN -48
NTH S NO TEST CONN SLEEVE 109 REX
S ORIG TEST LINE SLEEVE
SI M FT M LS M LS -48
LS 50B/F5,G4 M SDR3 M TKT3
25 TS3 4T 3 LHM YP YP
MTFC CKT MKR CKT VF- MTII
LINE,LINE LINK & MKR CONN CONT CKT LG- -48
LHM 60B/D6

MARKER CKT MTFC CKT
LHMT YF 25 TS2 1 12B YF VT VT 3T 2 1 VU LHC
XLH L KEY 3A OR 3C 2 VU XLHI 2000 B13 -48

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B52B
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-853A

PART OF FS 47
MARKER TEST CONTROL

MARKER CKT

COMPLETING MARKER CKT

MTFC CKT

MT
EXT
SF/SFT
HMTI
EXT
(ZQT) ANGC 2
(ZSB) ANGB 1
(ZQT)
(25) TS3 11 12B
(YF)
(YF)
NTC 28
(M) TM 4 5B
(ZM,ZL) TCT L KEY 3B OR 3D,3B 2
(M) (M) LI 2T 1
(ZTI)
(ZTH)
EXT B15 -48 226
(ZTI)
(145)
4 5 RLH L KEY
(ID) HMSI 6C 38 2

MC7 11 12T
CKG4 SCBI
SCB
(ZYD) (ZYD)
(BK) TSI2 28 1
(ZYE) (ZYE)
NTH 1 3T
(ZYE)
(ZYD) (ZYD)
LKI 4B 3
(FR,FQ) SCB 9T,4T 8B,5B B13 -48 700
(FR,FQ) SCB 6,3 7B,4B
(ZYE)
(76) TLES 3T 2 (76) LLES 3T 2
(ZZZ) SCBI 12T 11B B13 -48 2500
(76) ESCK 3B 2
(ZZZ) SCBI 5B 4

B5 IMS 10B 9 (22)
B5 SDT 25 1 (N)
(N) AMA 4 5T
(N) AMA 9TR 8BR B16 -48 S-1750
8TF 7BF B16 -48 P-850
TGS2 AMA
AMA
(N) OSC 1 2T
TRUNK GROUP TRAFFIC SAMPLING
RCD
SMT
KOR 11 12T
(N) SDT 3 4B
(117) TAMA 11 12T
(22) IMS 9 10T
(N) OSC 7T 6
(N) OSC 3 4T B16
SMC
SMK - P +
-48
TGSI CL-
CL3
(SB)
(N) OSC 1 2B
(IL)
(48) CL3 IL 2L B28 -48 960
(IK)
(IL) 1
(IK)
(48) CL3 4TF 5BF B28 -48 P-850
2T 1

DCK RTST
OSG-
RSC RAV2 RLI
OSC
(ZQW,172) KAMA L KEY 2 3B
(UJ,UI) MKTI 12T,2T 11,1
KOR 7 8T
(N) OSC 5T 5B B16 -48 950
(WN) ROT 9T 8
(117) TAMA 7 8T
(ZYV)
(35,8) OSK 3 4B 4,5 5B,6B
(122) SA L KEY 6A 5 B19

-48
HMSI
LLC3
HMSI
(IC,ID) HMSI 4T,6T 4B,6B B15 -48 700
MC7 7 8B
(UY)
1 2T MC3
(UY)
HMSA 6TF 7BF B9 -48 P-700
MC3 10B 9 (UY)
HMSA
HMSA 5 6B 7TR 8BR B9 -48 S-700

47E5

BELL TELEPHONE LABORATORIES INCORPORATED
6S
MASTER TEST CONTROL CIRCUIT
(2)
SD-25800-01-853A
107A
DRAWING ISSUE
800 76D 71D DK DRAWING SERIES

H G F E D C B A
0 1 2 3 4 5 6 7 8 9

SD-25800-01-B538

PART OF FS 47
MARKER TEST CONTROL

DIAL TONE OR ACD MARKER CKT

MTFC CKT

OBSI -48 CKGI DT MKR ONLY

CKG2 OBS2

OBSI OBS L KEY 6C,6A 5 (ZQY,ZQQ) (129)

OBS2 (120) ACDI 8

NTH 11 12B LHM 3 4B

MSI 1 2 3T

MC2 1 2B

(120) ACDI 4

CK2 2 + 5 − P-11

CKI 1 2T

L 240 B16 -48

M 15 3 MC2 4B B3

KR 3 4T NI 2T 1 B1 6B/DD

G6B CK2 7 3 1 + 6 − S-9

CKI 8T 6B 700 B16 -48

CKI 2B 1 (ZZW) (ZZW)

(120) ACD 1 2

VZ

COMPLETING MARKER CKT

FMP SLK2 RCYI RAVI

ROT TMK 4 5B KOR 1 2B (41) CAM3 8T 7 (H) MC9 11 12B

3C OR 3A 2 1 ROT L KEY

(22)

B16 CKI 5B 4 CK (M) MLVM B8 5T 4 CLOR B7 -48

(42) CK2 (42) CK3 B31 5B 4 CI OR B28 -48

SENDER CKT

RO 48

CAMA SENDER CKT

SRT -48 ON

ORIGINATING SENDER MARKER CONNECTOR CKT

60,178 LLP3 OT 1 2B OT

3 (40) TSK2 4B (WN) 9 ROT 108 B16

OT,ZVB 48 3 MOI 48 3 IMSI OT,ZVB

(137) AIC3 5 ZVB

RO' SRTI

7 (42) 3 CK4

(42) CK4 1 + 6 − S-9 (42) CK3 8T 6B 700 B28 -48

(41) CAMI VZ 12B 11 (41) MCII 7 8T 2 + 5 − P-11 (42) CK3 1 2T (42) LI 240 B28 -48

(42) MI 15 CK4

B32 (49) 4WF 8B 7 SI SJ B12 (M) KF2 11T 10 WV KINC 8T 7 (117) TAMA 13T 13B 950 B29 -48

4B/H4 B31 (41) MCII 4T 3

DRAWING SIZE
710 SHEET
74A
78D
79A
800

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B538

ISSUE 102B

SD-25800-01-B53C

PART OF FS 47
MARKER TEST CONTROL

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B53C

ISSUE 92 D

DRAWING ISSUE 780 800 68

SD-25800-01-B54A

FS 48A
MARKER FUNCTION CHECK

COMPLETING MARKER CKT

MTFC CKT

TO DAS-ETS IG (ZIL) — BI2

PAN, RIP, -48; PI, RI, TBI

BN, RI, TBI, BN, -48; DCI, RIP

RI, VCI, BN, TBI, RI, -48

RIW, -48; JCK, PUI, PLL, WMM, RIW; FLG, TBI, -48

FLGI, LK2, CKO, LLI,LLIA, -48; CKR, LLI

CKO, -48

2L, 2LN, -48

PLB, -48

TD, TDK, -48; NCTD; ANTD

B3, RAI, RIP, TI, CKO, 2LN, PLB, RVI

(65) RIP 288/E3 — (OZ)

RIP: (WB) KLT 11 12T — (58,65) RIP 11T 9B B30 700 -48; (OZ) 10T 9

BN: TO DAS-ETS (ZIK) — (167) EBN — KLTI 9 10B — (58,65) RIP L KEY 30 2 1 7 8T — (58,65) RIP — (ZIL) BN (ZVE) (ZVG) MC22 (ZVF) 3 (ZVE) — OS — OR,NG — OS — BN 6T 5B B12 950 -48; 5T 4

NGK: (137) AIC3 10 — (137) AIC1 1 2

RI: (167) ERI — RI TO DAS-ETS — KLTI 11 12B — (144) AIRI L KEY 30 2 1 — (ZIL) RI (ZVE) (ZVG) MC22 (ZVF) 1 (ZVF) — (ZVC) — RI 6T 5B B12 950 -48; 5T 4

RIW: (135) WBT4 8 — (135) RIW U L D72 700 -48; 6 (135) RIW

TBI: (167) ETBI — TBI TO DAS-ETS — KLTI 11 12T — (ZMW) TBI 1 2 — (ZIL) TBI (ZVE) (ZVG) MC22 (ZVF) 4 (ZVF) — (ZMX) — TBI 6T 5B B12 950 -48; 5T 4

LLI: (137) AIC 9 — (146) CW2 11 — (135) WLVI 10 — (ZXT) (99) 4WLT 6 — (178) LLP 38 1 (ZJW) — KLT (ZVC) 1 2T (ZTH) (ZWM) (ZMJ) — (ZOZ) NG2K L KEY 5 4 1 2B 6D — (60) LLP — (60) LLPK 2T 1 — OR — BI2 — (ZOZ) — BO BP B34 — BO BP BI2 -48 — (ZOZ) LLIK 88 8T 450 — BO BP BI2

CKO: MC5 10B 9

2LN: KTBS 9 10T — 2LN 11T 11B B30 700 -48; 10T 9 (58)

PLB: DO — WB KLT 11 12B — 99 — PLB U L B39 700 -48; 12 (99)

RVI: (ZWD) — (ZXO) TS13 12B 11 — (131) RVI U L B44 700 -48 — G7 68 5 KR 57A/E0

(58,65) RIP — B34 11 — (58,65) RIP 7 8B -48

12 RVI — (ZVB) KRI 115/H4 — (ZWN) — (ZZK) KR3 11 — B46

BN: BI2 11 — BN 2B 1 -48

RI: BI2 11 — RI 2B 1 -48

TBI: BI2 11 — TBI 2B 1 -48

(58) 2LN: B34 11 — (58) 2LN 9 10B -48

(99) PLB: B38 11 — (99) PLB 2 -48

(131) RV: B43 11 — (131) RVI 10 -48

(134) RIW: B55 11 — (135) RIW 11 -48

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S (2)

SD-25800-01-B54A

DRAWING ISSUE 107A

DRAWING ISSUE: 67D 68A 71D RJ 73D 76D 77A 79A 81A 82D 83A — CA CB

SD-25800-01-854B

FS 48B

MARKER AND TRANSVERTER TEST CONTROL

COMPLETING MARKER CKT

DAS ETS

B87 KIA (167) 10 — DK

B87 K2A 3

B31 (41) CAMI (VZ) 8T 7 — (VY) B6 — (DO)

(56) ATNT 9 — (25) TS3 2T 1 — NDT

TRUNK TEST CKT

NDT L KEY — NDT — 7 — (114) MTTA — (DO)

(CK) OGT 2B 1 — (ZQV) TG L KEY 1 2C — (ZQU) — (ZYQ)

(111) GLMN L KEY 5D 4 — (111) GLMX L KEY 5C 4 — (ZYQ) — (ZYR) — (60,178) LLPK 3,4 4T,5T

MTFC CKT

TTA

B17 (B) SDRI 7 8T — B5 (A) — (TE) — (TD) B5

SDR 10T 9

B88 (171) SDRI 10

B6 ITDO 8B 7

B34 LLPK 3,4 4T,5T

(TL,UW) ND L KEY — B18 1,2 2A,3A — MC5 6B 5 — NDT — NDI — -48

B17 (B) LV5 2 3B — (NL) — (B) LV3 2B 1

B32 (49) VERIO 2T 1 — (B) TV2 2 3T

B7 VER3 2T 1

(LT) — (LT) (56) ATNT 8 (LT) — B33

5 (55) RE — B6 (00) (LV) — (LT) — (55) TRF 1 — (LT) — (ON) 48 3 OGT — B6

(60,178) LLPK 5 6B — B34

(ZNS) NOTT L KEY 2C 1 — (ZNU) — (ZNT) — (ZNU)

MC5 8T 7 — (41) CAMI 1 2T — OTT — OTT — -48

(M) TKT3 8 9T — (OP)

OTT

(ZPD) GLIM L KEY — (ZPD) — (ZYR)

GLMX L KEY — (ZYR)

GLMN L KEY — (ZYR) — MKTI — 8D/D3 B5

(B) TV2 7T 6 — (B) SDR2 6T 5 — (B) LV5 2B 1 — (ZLL) — (GO) — 688/E4

B4 MS 2T 1 — (ZLL) — 48/B1

B26 (F) PC2 8T 7

B6 (ZLK) MC5 2T 1 — TM — CIC

(ZLL) — B26 (F) PT 7B 6 — TM TMI

B33 (56) ATNT 3 — TM TM2

(167) KIA 11 — B87

(167) K2A 2 — B87

MARKER CKT — TM — -48

TRANSVERTER CKT (COMBINED ANI LAMA) — SPL — -48

(NT) KIC 6T 5 — (ZWG) MC21 6T 5 — SPL — SPL — SPL, SPL1 — -48

(ZY) SPL L KEY (ZY) (ZY) — B18 (ZZ,XK,NQ) — (ZZ,XK,NQ) — 35A/H4

B12 (ZTH) — (DJ) (99) 4WLT 3 (DJ) — KLTI 2T 1 — (AA) — (ZWM) — (60,178) LLP 8T 7 (ZJV) (ZJV) — (ZJU) (ZJU)

(146) CWTV 2 — (146) CWH 7 — (146) CWNT 1 — B47 — B47 — (ZTI) — (DI) — (DI) — (AE) — (AD) DAPI 5 — (AE) — (135) WLVI 9

DAS ETS (CAMA)

(47) TVTC L KEY 4 5 — (SD) 6D — (LB) (LW) MC14 10T 9 — (LB)

(KH) — 3B ANI L KEY — B16 (SB) — (SD) — (KH) 2 — (KH)

TRANSVERTER, CAMA TRANSVERTER OR ANI TRANSVERTER CKT

NOB — -48

NM

M

ANI TRANSVERTER — OBS — -48

(SD) — (SB) — (SA) — B26

(ZWA) — (ZWC) TR2 L KEY 5C 4 — (ZPN) — (ZPN) — (ZWA)

(20) KTV 5 6T — (ZZI) — (ZQY, ZQO) OBS L KEY 2 1 — (ZZI) — (TU) — NOB

(TT) — (20) KTV 1 2B — (TT)

B16 KOR 4B 3 — (ZZI)

(ZNE) — (44) TVA 8 9T — (ZNE)

B16 (117) TAMA 4B 3 — (ZZI)

(ZZI) — (TU) — OBS

(TT) — (20) KTV 3 4B — (TT)

9 KORI 10T — B16

OBS — OBST

NOB — NOBT

XOB — -48

MASTER TEST CONTROL CIRCUIT

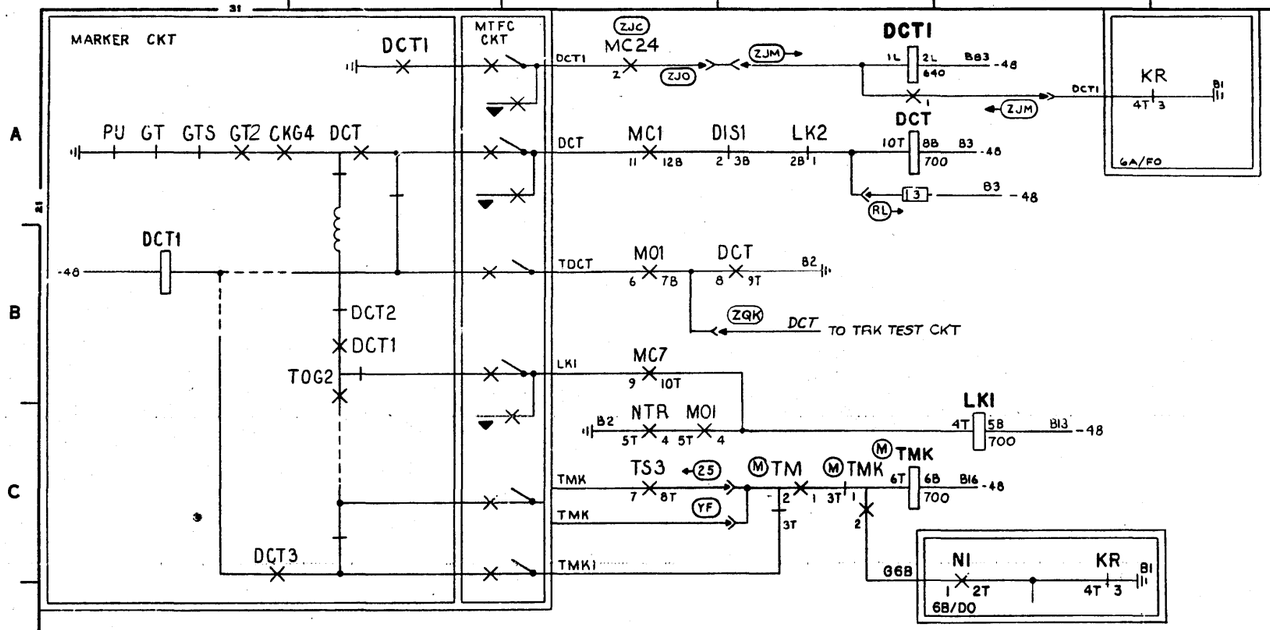
BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 65 (2)

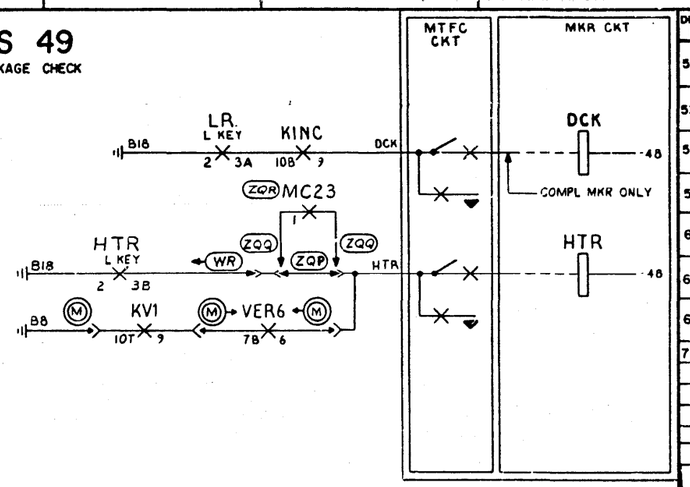
SD-25800-01-854B

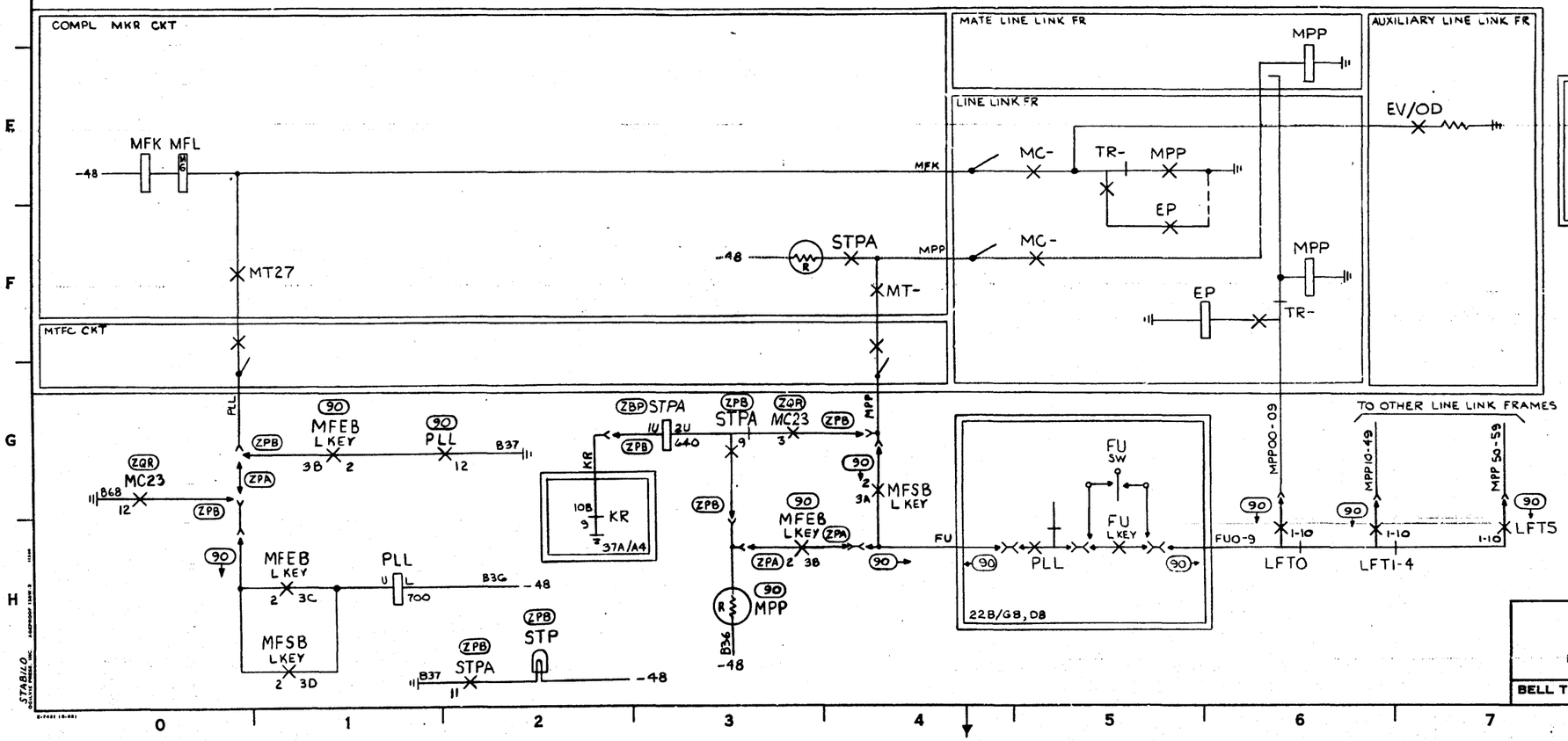
ISSUE 102B

DRAWING INDEX: 83A 80D 78D 76D 70A 68A 67D 67C



FS 82
PAIRED LINE LINK CONTROL





DRAWING ISSUE

51D	EN
530	
560	
59A	
63D	
65D	
66A	
71D	RJF
74A	
76D	
77A	
78D	
80D	

DRAWING ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-B55
BELL TELEPHONE LABORATORIES INCORPORATED
65

SD-25800-01-B55

SD-25800-01-B56A

FS 50

MISCELLANEOUS MARKER AND TRANSVERTER TEST

COMPL MKR CKT

MTFC CKT

RAVI RA6 SOGI

FM 2FA ITRI

MTI3

RBT

-48

IB/F2

SDR2 TCB TOF L KEY

MARKER CKT

TR2B TRLA

DT MKR

TST TRL MRLI

COMPL. MKR

LR

TR2

RBT

TRL

LRI

DTI

RK3

COMPL. MKR

TR2B TRLA

DT MKR

GT5 CGT TR2C

MTI

TRLI

-48

TRI TRLI TRR

-48

OC

ACD OR DIAL TONE MKR ONLY

RBTI

RBT

TRL

TRL2

TRLI

TRI

TIR

TCI

TV4

MCI

MOI

MC8

TVI

TV3

MSI

REC

TS2

IT

TTR

ETRC

CAM7

SRT2

CAMS

TII

SP L KEY

BAK

NBA L KEY

SDR2

SDRI

KR

ZWF

TQ

ZKC

ZZL,ZZM

ZZO

TKS 40B/DO

ZTT

ZTS

ZXF

ZXG

YS,YR

YF

IX

DIS 56B/EI

REC 57B/C6

LK2 56B/B8

KR 115D3

KR 58C7

KR 37A/A5

RBTI 8TF 7BF B3 -48 P-850 9TR S-1750 7T 6

BT 6TF 6BF B2 -48 P-850 7TR S-1750 5T 4

TRLI 5TF 3BF B3 -48 P-850 6TR S-1750 4T 3

TTR 6TF 5BF BI -48 P-850 7TR 6BR BI -48 S-1750

TIR U L B33 -48 700

TCI 7T 6B B3 -48 950

MTFC CKT

LAMA TV CKT

TBY M TBY

OFI

TRS

SDTI TRI P5 TRBA

OF

OFT

TVC CKT

OG SDR CKT

TR

-48

ONI

R4

ANI TVC CKT

ANI TV CKT

TRIT FAI

TMB SDTI TRL CG

CAMA TV CKT

TMIT

TRL CG

CAMA TV CKT OR PCTV (CAMA) CKT

FAI

TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT

TRBA

RBTI

TV4

RBTI

BT-OF

BT

TIR

TRL

TRLI

TCI

MASTER TEST CONTROL CI

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B56A

ISSUE 98B

SD-25800-01-B56B

FS 50

MISCELLANEOUS MARKER AND TRANSVERTER TEST

MARKER CKT

MTFC CKT

DCT DCT2 ITR2

LKI

MTI7

OV, BY OFHI LR

PTK

RR

RRK

MTI

DISI,2

COMPL MKR ONLY

LRI

LR

ACD OR DIAL TONE MKR ONLY

DIS2

XMRL

DISA

BRL

DISI

RRK RLG CPNT IRT

XBRL

BRL

MTFC CKT

BRL CPNT IRT

COMPL MKR ONLY

LK2

LK3

DISI

LRI

LR/RL

MRL

BRL

(25) TS2

YF

7T LK2 6

(128) STC L KEY 2B 1

(127) NRST 3

(127) TCTK 1

56A/F4 DIS

(B) TV3 9T 8 7

(A), (ZKC)

(B) MCI 11 12T

(PV) (PW) (ZQU) (ZQV) -48

DIS2

DISI 6TF 68F B3 -48 P-850 7TR S-1750 B3 7BR DISI 5T 4

DISI DIS 57A/F8

(59) PE 10 DISI 57A/DO

LRI -48

LR -48

(86) DTRI

(IG) (IF)

KINC 1 2T

LR L KEY 2 3D B18

DCK L KEY 3C 2 B18

TV1 4

(171) (TE) (TD)

MRL

(B) TV3 6T 5 4

(A) (B)

(171) MCI 7 8T

(PV) (PW)

MRL 6TF 68F B2 -48 P-850 7TR S-1750 B2 7BR MRL 5T 4

RRK RLG CPNT IRT

MRL

(59) PE 8 (PW) (SL)

(59) PER 6 U L B32 -48 700

(59) PER 32C4 G

(59) PE 2

(59) PRT 1 (SL)

XBRL BRL -48

BRL

MCI5 1 28

(49) (110) (51)

CBRL 10 (110)

(74) TSTA SW 8 OR SECT. 4 ALL 11

BRL CPNT IRT

COMPL MKR ONLY

BRL (RP) (TO)

(67) OR L KEY 2 3B (51)

(62) CCT 12 (ME) (ME)

(62) STA 10

(62) CCT 10

CBRL U L B32 -48 700

(MD) (MC) (110) (51)

BRL 13T 11B B29 -48 700

ITRK 2 3B 1 3T 6 7T BTG BRLI BRL 108 9 BTG (51) 1 2B

ITRK 1 2T

BRL 6 7T BRLI 13T 11B B29 -48 700

NIT 2A 1 NL KEY

CPN 4 5B L KEY

108 9

LK2

(171) (B) SDR2 11 SDRI (A) 6B 5 SDRI 1 2T SDR2

(171) (B) 7,8 NI 8B,9B 2B 1 KR

56A/C8

MTFC

TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT (CAMA)

MB9 TBY

TRANSVERTER ONLY

CKG

XRL -48

TBC3

RL

DIST

LK2 B4 7B 6 -48

(M) TMK B16 7T 6

DISI B2 2T 1 -48

MRL B2 2T 1 -48

(59) PE (59) PER B35 2 -48

(110) CBRL B35 4 -48

(51) BRL B32 8B 7 -48

(51) BRLI B32 8B 7

RELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

(2)

6S

SD-25800-01-B56B

ISSUE 104B

DRAWING SERIES 800 820 834

FS 51A
DISCONNECT

COMPLETING MKR CKT
TKT
DTF
TRTF
TRTI L KEY 2 1 3A
TRTF L KEY 2 1 3B
TRTI
CTR
DISI,2 -48
XI
TKT
87
91 TRR L KEY 1 2 3D
TRR -48
TKT
TTR
GJ

B36 LIDF 10
B18 ZMU REC L KEY 5 68
87 LIDM 3
LITR IL 2L B33 960 -48
128 ATDL L KEY 2 3B ATDL TO TRANSVERTER CIRCUIT
ZTV
TRP TO DISTRIBUTOR AND SCANNER CKT OR DAS ETS CKT
ZMV

WN MC2 12T 11
WN ROT 10 11T
WN ROT 12T 11B 2500 B16 -48
M KTN2 68 5
49 KTN3 68 5
LM KTNA 2B 1 LM
LN LN
M TM 6T 6B 700 B12 -48
38 OR 30
B18 2 1 ROT L KEY
REC 1 2B
YF
25 TS2 8T 7
ROG

40 CAT L KEY 2 3B
57B/E2 CAM3
42 CK3 2B 1
MISC 4T 3
44 ROP B31 5B 4
ORIG 4T 3
VZ 67 SDR L KEY 4 5D 67 VZ
VZ TZ SDRA 9 10T KK KK VZ
40 CAM7 10T 9
41 CAM5 1 2 3T
VZ
VY
LK2 2 1 3T
VZ

9907 ETRC
127 RECE 11
128 RECE L KEY 6D 5 4
ZXG
8 MC8 6T 5 MOA
127 ETRC 5
ZXH
ZXG
8 MC8 10B 9 RLA
XH
AZ TS AZ 6B 5
AY
ZOQ
ZOP
B29 ATT 7T 6 26

MTFC CKT
SDR CKT
RO -48
ON
SDR CONN CKT
COMPLETING MKR CKT
RO
TRBI
TRR TRR -48
TRANSVERTER CKT
TR TRB
XRL RL -48
MKR CKT
COMPL MKR ONLY
TTA
25 TS2 10T 9
YF DIS
MTFC CKT
DISI,2 -48
TV4 4 5 6B
TRR TRTR
MOI

DRAWING ISSUE
75B
76D
78D
81A
83A
DRAWING ISSUE
107A

5B8/D2 DISI PW 146 CWDS 116C4
B1 KR 5 6B
DISI 5B 4
G H H
KR 57B/F0
TNK 28A/A7 NN
KR 30D4 ZJV
G7 54A/A5, 60A/A9
VZ
3T 1 2 PC
B12
B68 ZJE AISM 2
B12
ZJJ
OR
NG
OS
OS
JO
57B/E2 DAN VER9 1 2 38
4 5 6B
58,65 RIP
ZOZ
B12 LLIK 7B 6
ZOY RI 4B 3 ZOX B12
ZOY TBI 4B 3 ZOX B12
ZIL NH BN 4B 3
NH
ZVD ZJL SH LVI 9B 8 ZJL ZVD
ZJH 137 ZQS AIC3 1 ZQS ZJH
ZJI ZJD AICT 4 ZJI
ZJG KLTI 9 10B ZJG
ZVD ZVD
NH
NH
B26 TLVM 3 4B 9T 7 8 LV7
18/D5 DISC
20 R
A, ZKC
B
20
B6 JSB 2B 1
B6 TB 2B 1
ZU
ZV
B49 VLRK 4
B49 VLBK 9
135
146
B47 CWNT 2
NCW 4
NTVB 8
NTCW 5

57B/D4 GME
1 2 3B KEG 57B/H5
REC L KEY
ZUU PRUK 10
28 1 MOI
3T 1 2 DCT
3T 1 2 NTR
3T 1 2 RBTI
5B 3 4 REC
MOI 57B/B5

B
MC8 10B 9 RLA
VZ DISC
25 TS2 10T 9
YF DIS
4 TV4 5 6B
A, ZKC
B
12T 25 11 TS2
YF
MOI
TRR TRTR
A, ZKC

MASTER TEST CONTROL CIRCUIT
2 SD-25800-01-B57A
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-B57A

0 1 2 3 4 5 6 7 8 9

FS 51B

TROUBLE RECORD REQUEST

DRAWING ISSUE: 75B, 76D, 78D, 79A, 80D

DRAWING ISSUE: 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B57B

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B57B

FS 52
MARKER FUNCTIONS COMPLETED

FS 91 (MFR DISC)
WIDEBAND LINK CONTROL

COMPLETING MARKER CKT
MT27 WRV -48
TRUNK TEST CKT
WBT -48
WIDEBAND LINK CKT
WRV L KEY 2 3B (106)
TKT B6 2T 1 (106) WBT 48/DO
WBT WRV L KEY 5 6B (106)
WN L KEY 5 6A
KR B1 1 2B KR 56A/E9
COMPLETING MARKER CKT
LLC3 LIT LI -48
MTFC CKT
ZZN FR SCB 2B 1 ZYF OTL10 8 ZZN ZWK
106 TTL10 8 ZWK
ZWI LIA 12
GM MC18 LI 5 6B ZWK
FD RCY 4 ZWK ZWI LIA U L B42 700 -48
ZWL ZWJ LBS 12
ZWJ WLB L KEY 2 3A B18 ZWI LIA 6 ZWJ LBH 10
ZWJ LBS U L B42 700 -48
B41 ZWJ LBS 10
ZWJ LBH U L B42 1K:5% -48
LBS SW SECT I NBRDG ALL 12 0-9 1-10 LBS0-9 ZWJ
LBS R LBS 4 +130 B3
LB LBS0-9
LBH SW SECT I NBRDG ALL 12 0-7 1-8 LBH0-7 ZWJ
LBH R LBH 3 -48 B42
LB LBH0-7
WTB L U 2.5K -48 B42 ABT (118)
(A,B,EA,EB)000 HOLD ON
(118) WTB (118) WTB 4 -48
B41 ZWI LIA 1 LBC -48
LBC

B88 (171) TV 10 ZQV DIS2 12 B68
B17 (B) TV2 2B 1
(F) PTRI 4 5B B26
(153) IRL 2 B44
(153) IRPT 9 ZRR
B2 ZQU (127) MRL 104AO
ZQV MRL 2B 1 OR 3B 1 DT 3B 1
(XN,XO) MFC 11T,13T 11B,13B B2 -48 950
10T,12T 9,11
TS 7 8T B2
99 EI 4 6T
26 ATT 3 4B B29
B2 BT 5B 4
B2 TRL 5B 4
B36 TIR 2 (86)
(F) B26 SR 1 2B 6B PC2 5 (F)
B26 PST 2 3T G1 1 2B GR 4 5B PRL 7B 6
N1 5
(A) (B) (171) SDR1 6 B88
SDR1 6T 5 B17
SDR2 8 7 B17 9T
(B) (171) SDR2 8 B88
ZZV MS 5 6T TC1 5B 4 ZZW
ZZW 4 ZZW 08 53C/G2
KCS 26A/H5
TKT (OL) 6B/AB

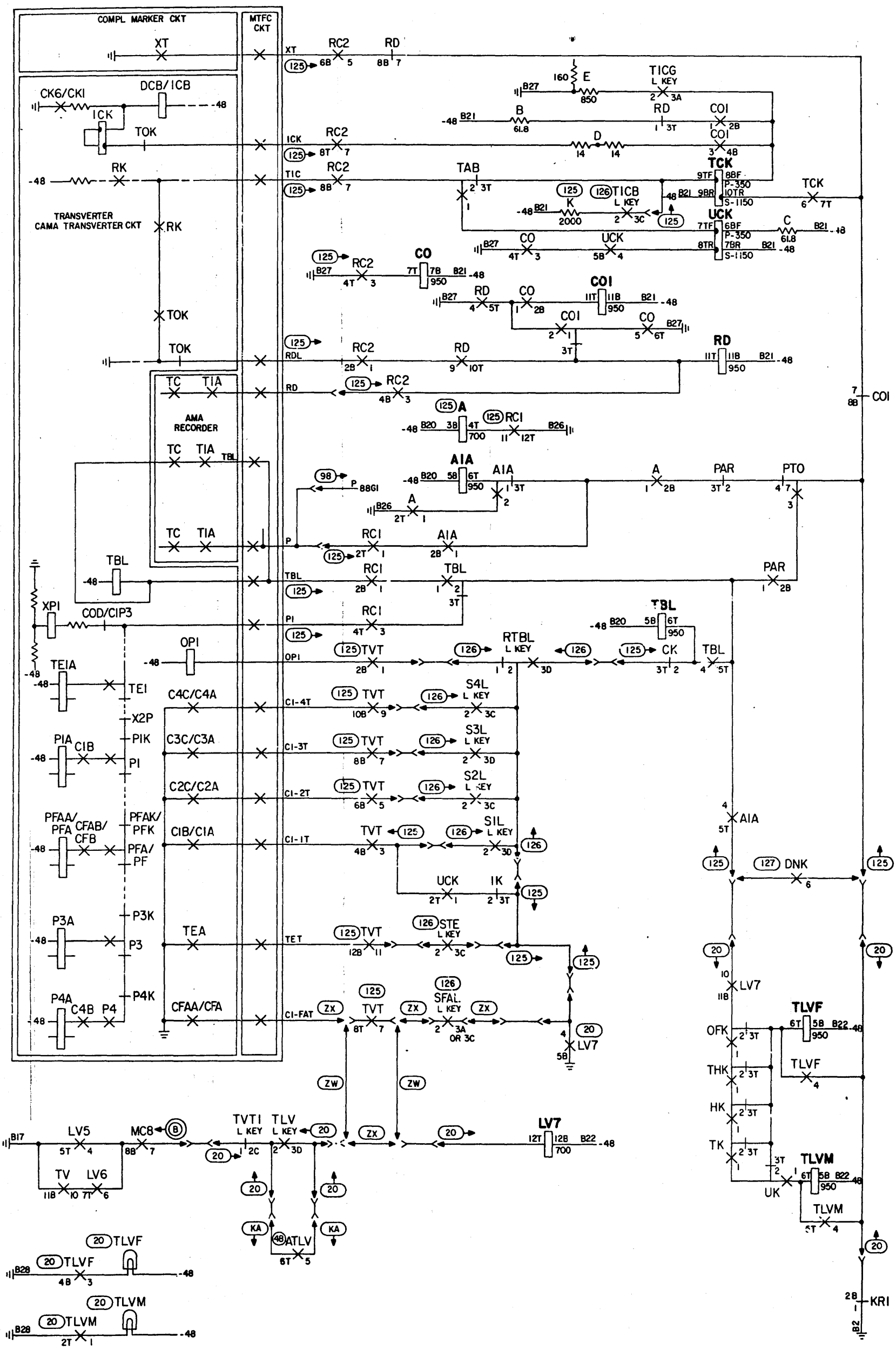
MFC B2 6B 5
MFC1 13T 13B B2 -48 700
ZTK MFC2 U L B75 -48 700
ROP 6A/C8 VZ
ZZJ ZZK
KR B1 12B 11
KR3 B46 -48 L U 700
B46 12

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-858
BELL TELEPHONE LABORATORIES INCORPORATED
65

SD-25800-01-859

FS 53
VERIFICATION



MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

ISSUE 6S

(2)

SD-25800-01-859

ISSUE 89A

DRAWING ISSUE 51D 56D 58D 67D 78D 82D 83A

WORN DRAWING REPRODUCED WITHOUT CHANGE 2-16-68 KMC

SD-25800-01-B60A

PART OF FS 54
LINE VERIFICATION

RCK
TNK
FNK
TERK
TBSK
CSRK
CSGK
CSKI
CSK
ATMT SW SECT 2 NBRDG
ATMK
LOLL
LOL
NOL
NOLL
TCLC
RIP
NGIK
VFK
HGK
VGK
FUK
FTK
MLVM
MLVF
LV
KR
CGB
CGA
L KEY
57B/F5
57A/E0

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

SD-25800-01-B60A

ISSUE 96B

PART OF FS 54
LINE VERIFICATION

SLK 11 12T 3 — NS 4 5T — MLVM 9 10T — LI 10TF 98F B7 -48 P-850 11TR S-1750 -48 B7 10BR 9T

SLK 13T 13B B7 -48 1500

LI 6 7T 5 — MLVM 7T 6 — 9T LI 8 — NS 2 1 3B

NS 4 5B BZ — LST 1 GT — 2 — 3 4 5 — ZYN NSTI 7 — ZYM NST — 3 — 1 ZYN NSTI 2 — 9

LI 8B 7 — BZ — 10 60 LLPV — 4 — BZ — 60 LLPV — BZ — BZ — LST 8 P 7 4020 4000 — GT

NS 8T 6B B7 -48 700

VER7 12T 11 — LHM — 25 YP — TS3 4T 3 LHM LHM — 52B/G7

MTFC CKT — MARKER CKT — VF- MTII — LINE,LINK AND MARKER CONN CONTROL CKT — LG- NR 2 -48

B9 VER2 8T 7 — MLVM 2B 1 — NR CMA

MLVM 7T 6 — NR — VER2 12T 11 — NR CMB

NR,NS — BY — B18 -48 — 40G6

NR,NS BY

B8 VER2 10T 9 — SLK 5B 4 — NR CMC

72F8

B8 VER6 5T 4 — VER6 12T 11 — NS 6 7T — BZ — 60 LLPV 6

B8 L MLVM 2T 1 — MLVM -48

+130 B1 — SLKT 3900 — SLKT 1000pF — B8 — SLKI 787000 — SLK2 100000 — SLK3 2000 — SLK 2.14-2.18 — SLKT 1000 — 2 1 3

68 5 4 LI — 8 9 10B SLK — 2 3B 1 SLKT — SLKT 8T B8 2500 — LI 3 4T B8

B8 VER6 1 3T — MLVM 11B 10 — MLVM -48

VER2 12B 11 LVM

B8 VER2 8T 7 — MLVM 4T 3 LVM

B8 LV7 7B 6 — TLVM 2B 1 — 20 — L — M

LIDM 2 — 87

B36 MC19 3 — LIDF 11 — 87

TLVF 2B 1 — 20 — L — M

MLVF 4T 3 LVF

B8 SLK 7T 6 — 2 1 3B SLK — SLKT — VER2 10B 9 LVF

B8 SLK 5T 4 -48 — SLK

B8 MLVF 2T 1 -48 — MLVF

B8 L MLVF 2T 1 -48 — L MLVF

DRAWING ISSUE 71D

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-B608

BELL TELEPHONE LABORATORIES INCORPORATED — CKD DATE 6S

SD-25800-01-B608

FS55

TRUNK (TT/LT) OR LINE (LT) RELAY LOCKOUT

SD-25800-01-B61

DRAWING ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B61

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

FS 56

LOCATION OF LINE LINK OR TRUNK LINK FRAME HAVING LOCKED (LTM/TTM) OR (LTA/TTA) RELAY

TO OTHER 4W TRK LK FRAMES

4W TRK LK CKT

4WTL

TTM

MTT

LRF

-48

61

TO OTHER 4W TRK LK FR NUMBERS WITH SAME TENS DIGIT

FT

TO OTHER 4W TRK LK FR NUMBERS WITH SAME UNITS DIGIT

FU

TO OTHER 2W TRK LK FRAMES

2W TRK LK CKT

2WTL

TTM

MTT

LRF

-48

61

TO OTHER 2W TRK LK FR NUMBERS WITH SAME TENS DIGIT

TTA

FT

TO OTHER 2W TRK LK FR NUMBERS WITH SAME UNITS DIGIT

FU

AUTO PROG TRK TEST CKT

TO OTHER 2W L LK FRAMES AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

2W LINE, LINE LINK & MKR CONN CONT CKT AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

2WLL

LTA

LRF

-48

61

TO OTHER 2W L LK FR NUMBERS WITH SAME TENS DIGIT AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

LTM

MTT

FT

TO OTHER 2W L LK FR NUMBERS WITH SAME UNITS DIGIT AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

FU

TO OTHER 4W L LK FRAMES

4W LINE, LINE LINK & MKR CONN CONT CKT

4WLL

LTM

MTT

LRF

-48

99

TO OTHER 4W L LK FR NUMBERS WITH SAME TENS DIGIT

FT

TO OTHER 4W L LK FR NUMBERS WITH SAME UNITS DIGIT

FU

2T

24

MTT

1

CB

61H7 MTTK

12B

KRI

11

MI

24

MTT

47

±1%

B2

08

DO

LRFT3-5

TO 2W L LK FR "3-" TO "5-" AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

FT

-48

61

TO 4W L LK FR "3-"

FT

DO

LRFT2

TO 2W TRK LK FR "2-"

FT

TO 2W L LK FR "2-" AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

FT

-48

61

TO 4W L LK FR "2-"

FT

DO

LRFT0,1

TO 4W TRK LK FR "0-","1-"

FT

TO 2W TRK LK FR "0-","1-"

FT

TO 2W L LK FR "0-","1-" AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

FT

-48

61

TO 4W L LK FR "0-","1-"

FT

DO

LRFU0-9

TO 4W TRK LK FR "-0" TO "-9"

FU

TO 2W TRK LK FR "-0" TO "-9"

FU

TO 2W L LK FR "-0" TO "-9" AND AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS

FU

-48

61

TO 4W L LK FR "-0" TO "-9"

FU

DO

DRAWING ISSUE

510 AUG 71
55A FEB 71
56D JUL 71
57A JUL 71
58D JUL 71
61A JUL 71
65G JUL 71
67D APR 71

WORN DRAWING REPRODUCED WITHOUT CHANGE 2-19-68 SGK

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-B62A

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B62A

FS 57
LINE LINK PULSING

MTFC CKT | COMPLETING MRK CKT | NO. GRP CONN CKT | NO. GRP CKT

4589 TS15-19 → ZLL, ZJW → 173 PLLP3 0,1,2,4,7 6-10

B87 PLLP 173 6 ZKH 173 ZKH

TBT SW SECT. 1 (JX) SECT. 2 (JY,BL)

97 MCI6 1 2T 12 ALL 0-9 1-10 97 ZKH 173 PLLP2 1-10

97 TBTA → MT2I LRA LLP2 HBS R -48

97 TBT 0-9 → E- HN- LR00-99 LN00-99 HB HB0-9 HN- 2/5

HN0-9 A- MC- HB0-9

TBTA0 TBTA1 TBTA2 TBTA3 TBTA4 TBTA5 TBTA6 TBTA7 TBTA8 TBTB0 TBTB1 TBTB2 TBTB3 TBTB4 TBTB5 TBTB6 TBTB7 TBTB8 TBTB9

0-9

B (177) LPNB SW SECT 1 SECT 2

A 12 ALL 0 1 4
1,2,4,7 2,3,5,8 0
3,5,8 4,6,9 1
6,9 7,10 2
B 12 ALL 0,7,8,9 1,8,9,10 7
1 2
2,3 3,4
4,5,6 5,6,7

(178) LPNA 0,1,2,4,7 2B;2,4,6,8T 1;1,3,5,7

B (177) LPNC SW SECT 1 SECT 2 A B

0,1,2,4,7 4,6,8,10,12B 3,5,7,9,11 (178) LPNA

4589 TS10-14 → ZLL, ZJW → 173 PLLP3 0,1,2,4,7 1-5

A TBUA(0-9) TBUB(0-9) 0-9

B87 PLLP 173 5 ZKH 173 ZKH

TBU SW SECT. 1 (JX) SECT. 2 (JY,BL)

97 MCI6 3 4T 12 ALL 0-9 1-10 97 ZKH 173 PLLP1 1-10

97 TBUA → MT2I LRA LLP2 TBS R -48

97 TBU 0-9 → E- T- LR00-99 LN00-99 TB TB0-9 T- 2/5

TO-9 A- MC- TB00-99 HB0-9

LLI CKR CKR -48

MT-

LLP 60,178 9,6 10T,7B 60 178 LLP3 10B 9 60,178 LLP1 10T 10B 700 B3I -48

60,178 LLP2 10T,12T 10B,10B 700 B3I -48

LLP3 88 7 60,178 LLP3 13T 13B 950 B3I -48

LLP 60,178 4B 3 KRI B2 51A/G1

OS CKR

60 LLPK 4B 3 60 LLPV OS GM MCI8 4T 3 OS CKRI

MASTER TEST CONTROL CIRCUIT

DWG SIZE	ISSUE
6S	102B

BELL LABORATORIES | SD- 25800-01- | B62B

FS 58A (MFR DISC)
PROGRESS AND IDENTIFICATION LAMP CONTROL

SEE NOTE 1 — LPO L KEY — B15 — 1 — 3 — 2 — (33) — (33) (1ST) — LP — -48

LPI-10 L KEY — B15 — (33) (2ND THRU 11TH) — LP — -48

LPII L KEY — B15 — (33) (12TH) — LP — -48

LP -48 MARKER CKT 0

LP -48 MARKER CIRCUITS 1-10

LP -48 MARKER CKT 11

NOTES:
1. THE (LP-) KEYS ARE SHOWN IN THE NORMAL-PUSHED IN-POSITION.

FS 59
PROGRESS AND IDENTIFICATION LAMP BOOSTER

(149) CHT — (ZTO) — B62 — 11

(34) — LP — 7T — 78 — 2500 — B18 — -48

NGF — 6 — NGF — 2000 — 1760 — +130 B1 — B15 — 3T — 2 — 1 — LP — (34) — NGF

LLF — 6 — LLF — 2000 — 1760 — 4 — +130 B1 — B15 — 6T — 5 — LP — (34) — (ZTN) — (148) CHT L KEY — 20 — 1 — (ZTO) — (ZTO) — LLF — (ZTN)

508/H3 — CHT — (149) CHT — 8 — CHT/TST

COMPLETING MARKER CKT — LP

NO. GROUP CONN CKT — MC

MASTER TEST FRAME JACK, LAMP, AND KEY CKT — NGC — -48

MARKER CKT — LP — NON-ACD — ACD — MT-

LINE LINK CONN CKT

LINE LINK MARKER CONN CKT

LINE LINK CKT AND TRANSFER LINE LINK CKT — LLF- — BAT — -48

LINE LINK AND MARKER CONN CONTROL CKT (ACD) — TSTA — -48

TST — TST

CHT — CHT — (149) — 2 — (149) — 1 — -48 B79

FS 58B
PROGRESS AND IDENTIFICATION LAMP CONTROL

LP SW SECT 1 — ALL POSITIONS BUT "OFF" — B15 — 12 — ALL — 0-9 — 1 — (143)

LP SW SECT 2 — ALL POSITIONS BUT SELECTED — 12 — OFF — 0 — 1 — 1-9 — 2-10 — LP TO MARKER CIRCUITS 1-9 — (143) — LP — -48 — MARKER CKT 0

B62 — (149) CHT — 5 — (ZTO) — (143)

LP SW SECT 3 — ALL POSITIONS BUT SELECTED — 12 — OFF — 0 — 1 — 1-7 — 2-8 — LP TO MARKER CIRCUITS 11-17 — (143) — LP — -48 — MARKER CKT 10

B62 — (149) CHT — 4 — (ZTO) — (143)

LP SW SECT 4 — LPT L KEY — 2 — 3C — 1 — 12 — ALL — 0 — 1 — 1-9 — 2-10

LP SW SECT 5 — 12 — ALL — 0 — 1 — 1-7 — 2-8

ISSUE 95A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B63A

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B63A

FS 60
ALLOTTED NUMBER GROUP SELECTION CONTROL

COMPLETING MARKER CKT

MT21 × MT12 — TNA — -48

B15 — NGT 12T 11 — (32) — (ZKF) — TNGA
(ZKG) — (173) PLLP 12 — (ZKG)

B18 — NGT L KEY 1 2D — (32) — MKT2 12B 11 — (32) — NGT 13T 13B 700 — B15 — -48
(LD) — (97) MCI6 5 6T — (LD)

-48 — B15 — (32) NGT 226 — (ZKF) — (ZKG) — (ZKG) — (173) PLLP 4 — 887
(32) — NGT 12B 11 — NG(A-H) L KEY 3 1 — NGT b d — (32) — NGT(A-H)
SEE NOTE 1
SEE TABLE A
(32) — (ZKG)
TNA — NGT(A-H)

(173) PLLP1 TS0,1 11,12 0,1
(173) PLLP2 TS2,3 11,12 2,4
(173) PLLP3 TS4 12 7
45E9 TS0-4 — (ZLL) — (ZKG) — (ZJW) — (178) LPNB — (ZKG) — (ZKG)

(177) LPNA SW SECT 1
A — 12 ALL — 0 1 — 4
1,2,4,7 2,3,5,8 — 0
3,5,8 4,6,9 — 1
6,9 7,10 — 2
SECT 2
B — 12 ALL — 0,7,8,9 1,8,9,10 — 7
1 2
2,3 3,4
4,5,6 5,6,7
7-11

(173) NGA0 2 3
(173) NGA1 1
(173) NGA2 1
(173) NGA3 0
(173) NGA4 4
(173) NGA5 4
(173) NGA6 5
(173) NGA7 5
(173) NGA8 0
(173) NGA9 7
(173) NGB0 8
(173) NGB1 8
(173) NGB2 7
(173) NGB3 7
(173) NGB4 2
(173) NGB5 2
(173) NGB6 9
(173) NGB7 9
(173) NGB8 6
(173) NGB9 6

SEE TABLE A c

TABLE A

LEAD	a	b	c
NGTA	1	2B	1
NGTB	3	4B	2
NGTC	5	6B	3
NGTD	7	8B	4
NGTE	1	2T	5
NGTF	3	4T	6
NGTG	5	6T	7
NGTH	7	8T	8

NOTE:
1. THE (NG-) KEYS ARE SHOWN IN THE NORMAL-PUSHED IN - POSITION.

FS 61 (MFR DISC)
MISCELLANEOUS TESTS

B18 — TP L KEY 2 3C — (UQ) — TP
B19 — (68) OGT L KEY 2 3C — (UQ) — HTR
(68) MISC L KEY 2 3D
(68) IAO L KEY 2 3C
(68) ITDO L KEY 2 3D
(68) ITNP L KEY 2 3D
(UQ) (UQ)
(ZO) ITP L KEY 2 3C

TRUNK TEST CKT
(THESE LEADS HAVE NO TERMINATION IN STANDARD TRUNK TEST CKT)

B2 — BT 2B 1 — TKT2 7T 6 — (ZO) — BK
B2 — TRL 2B 1
B6 — TB 2T 1
B6 — (J) SB 2T 1

DRAWING ISSUE
760
780
800

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-8638

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-25800-01-8638

SD-25800-01-B64

STABILO

FS 62

TEST OF MARKER NO TEST AND NO HUNT FEATURES

COMPL MKR CKT

MTFC CKT

SPL NTT

MPT NT4

RCK2 NTT MT16

NTR

KNT

MPT

M

LF1

NTT

KR

KR 32D4

KR 68A/FC

LF

NTR

MPTA

YC

YD

B,ZR

JF

JX

KX

S SW SECT. 1

S SW SECT. 2

S0-9 L KEY

LL0-9

PTL L KEY

WU, WX, ZXE

NF 120

NE 120

ND 120

NC 120

NG 120

NA 425 425

S0 L KEY

S1 L KEY

S2 L KEY

S3 L KEY

S4 L KEY

S5 L KEY

S6 L KEY

S7 L KEY

S8 L KEY

S9 L KEY

NTLH

MT16 NT1 NT3

NT4

PTL

LF9 LL9 PT9

LF8 M8,9 LL8 PT8

LF1 LL1 PT1

LFO M0,1 LL0 PTO

MPT -48

NT L KEY KINC

F

KNT

MC10

FCAM

ORCO L KEY

ORC2 L KEY

ORC1 L KEY

NT/ORCO

ORC2

NN/ORC1

NH

CNTI

NN L KEY KINC

NH L KEY KINC

CWNT

KLT

DAPI

WLV1

LLP

CNT L KEY

KKI

MTFC CKT

37A/F3

SD-25800-01-B64

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

65 (2)

102B

DRAWING ISSUE

PART OF FS 63
REGISTER AND SENDER TESTS

REG & CAMA SDR TEST CKT

COMPL MKR CKT

MTFC CKT

IRT

ORT

IMT

STT

MCA

AUTO. MONITOR REG & SDR TEST CKT

41 CAMS 48 3 VZ

IMSI 5T 4 ← 22

SRTI 5B 4

MC3 11 12T

SRT

31 ORT 8T 7

31 SRGI 2 3T

31 SRG2 5T 5B 500 B2 -48

SRT2 10T 88 950 81 -48

B5 31 ORT 6B 5

31 RON -48

OM,FM PERT L KEY 2 3B ← 92

49 4WG 2 PY PY

59 PRT U L 700 B32 -48

TRK CONT CKT

TI TCI-

TS TCT2 7 127

B26 PC2 2T 1 F

SM SN 40 CAM 48 3 SN SM

127 RECE 7 TSO

MTPT

B5 MKT2 4T 3

MC3 10T 9

B6 DF,DG LTI 2T,2 1,3T

B17 TV2 5T 4 ← 8

171 TV 7 B88

CAMA SDR CKT

ORMC CKT

COMPL MKR CKT

IMT -48

MTFC CKT TS

IMG SDR CKT SRT

110 CBRL L KEY 2 1 3A

B5 ORT 2T 1 ← 31

62 CCT 11 ME

FL 51 BRL L KEY FL

FK 2 1 3A FK

RO

FK OA

59 PRT 4

FL PZ

OA

PZ 59 PER 8 OA

3 59 PE OA

MY

FK

110 CBRL 2

FL 51 BRL FK 5 6B

51 BRL I 5 6B 4 FK

FL MY

MY

ME

CPNT

4W ORIG REG CKT M

ORMC CKT

CPNT -48

CONF CONT CKT TCI

COMPL OR ACD MKR CKT

BU

BT

BU 108 TDV L KEY 1 2 3A

BU 108 TDVA 9

8 TDVA

TDV U L 6 kΩ

TDV 2

TDV 750 B44 -48

108 ← 108

91 TRR

TRR L KEY 2 1 3A

RBT L KEY 2 3B

DIS

ORT BRL TRR -48

RBT ORT RTST RBT -48

DIS ORT RTST DIS1,2 -48

MASTER TEST CON CIRCUIT

DWG SIZE 65

ISSUE 98B

BELL LABORATORIES SD-25800-01- B65A

PART OF FS 63
REGISTER AND SENDER TESTS

SDR TEST CKT
SDT
SDT SW
AUTO. MONITOR REG & SDR TEST CKT
STMI STM2 MPOR L KEY CMS
SDT ST 2B/F8
TSTA SW SECT. 2
XM XMA 5B 4
DTR
TTNO L KEY 1 2C
ACDT
PRDK
DT 10 11B
MC3 6T 5
TDVA 2U 2L S-210±3% 1L P-400
TDV L KEY 2 3D
ORT 13T 13B 950
XM 6TR 48R S-570
XMA 5TF P-5.5±15%
XM 7T 6B 2.5kΩ
HLD L KEY 2 3A
ORT 4B 3
SDT L KEY 3A 2 1
INC L KEY 1 2B
ORIG L KEY 1 2A
DT L KEY 1 2B
MFC
ORT
KRI 8B 7
ACDI 6
TRF
AN L KEY 5A
4WD
OR L KEY 5B
IMS L KEY 2 3A
IR L KEY 2 3B
SDR L KEY 4 5A
OR 7B 6
ACD 958/D6
PER 10
PRT 8
PE 5
PZ
BRLI 2T 1
BRL L KEY 2C 1
RLT L KEY 2C 1
ORT 4T 3
REC 8C/C4 2 1 3T
SDR 10B 9
MF L KEY 2 1 3B
MLF L KEY 2A 1
OR L KEY 4 5C
TSTA SW SECT. 3
MSRI
STT L KEY
STT
PB
DORI
PORI

REG & CAMA SDR TEST CKT
MTFC CKT
COMPL MKR CKT
MON
DT MKR CKT
AUTO. MONITOR CKT
MP CMS OR
TRANSFER TRK LINK CKT
TRANSFER TRK CKT
TST
TRK LINK
M
ORIG OR DIGIT REG CKT
ORMC OR DRMC CKT
RD
MC-
COMPL OR ACD MKR CKT
ORT BRL RTST
AUTO. MONITOR REG & SDR TEST CKT

MASTER TEST CONTROL CIRCUIT

DWG SIZE	ISSUE
6S	107A

BELL LABORATORIES | SD-25800-01- | B658

FS 64
PULSE CONV.
SENDER TEST

F 118 10 HM
SC
DS -48 B20 5B 6T 950 D
OF 5 6B B26
KR1 B2 5 6B
72A6 KR1
OF 9TF 9BF P-100
-48 B20 OF 226 10BR 10TR S-1100 OF 7 8T
S 3 4T AB
DS 3T 2 T
2T S P OF 2T PCS P R
AUTOMATIC MONITOR CKT
TK JACK TK TO P
TK JACK -48 RO P
28 PCS 1
SENDER TEST CKT
TO RO P

A
PCD 5T 4 T T
P P
R PCD 5B 4 R R
AB PCD 78 6 AB AB
D PCD 128 11 D D
HM PCD 7T 6 HM HM
SC PCD 9T 8 SC SC
TO SENDER LINK ASSOCIATED WITH FIRST GROUP OF DIAL PULSE SENDERS

A
PCD1 T,R,AB,D,HM,SC.
TO SENDER LINK ASSOCIATED WITH SECOND GROUP OF DIAL PULSE SENDERS

A
PCR T,R,AB,D,HM,SC.
TO SENDER LINK ASSOCIATED WITH REVERTIVE SENDERS
SEE NOTE 308

T,R AB,D
HM SH
SC SSO-9 OUTGOING SENDER LINK CKT
SSO-9
MC- MC-
TRUNK LINK AND CONN CKT
SSB
SSO-4 SHKA
SLK 3- -48
SMB -48
MARKER CIRCUIT

B26 MC9 8T 7 S 2B 1 DS 4B 3
PCR PCD PCD1 PCD1 L KEY PCD L KEY
1 3T 2 1 3T 2 1 3T 2 2 1 3A 2 1 3B
PCR 13T 13B 1500 B20 -48
PCD 13T 13B 1500 B20 -48
PCD1 13T 13B 1500 B20 -48

B26 OF 4B 3 POF -48

DRAWING ISSUE
51D CB CA AM
56D CL CB AM
69A JL AB AC

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B66
BELL TELEPHONE LABORATORIES INCORPORATED 6S

FS 65
TRANSVERTER TEST CONTROL

SDT3 L KEY — B19 — 5B OR 5D 4
SDT2 L KEY — 2 3B — 1
SDT2 ← (20) — SDT2
RC1 — 13T 13B 700
SDT1 L KEY — 2A 1
(20) (125) — TP 2T 1
RC2 — 13T 13B 700
(20) TCB — B26 4T 4B 700 — TCB
(125) TP — B26 4T 3B 700 — ST
TV4 — B17 8B 7
MC8 — 6B 5 — TIK
MC8 — 12B 11 — TSL
SDR2 — 1 3B — 2
TCB — 2B 1
SDT3 L KEY — 2 3B OR 3D
STK — 3T 2 — EXT
(8) (20)
(125) TBL — B26 4B 3
(20)
CO — B27 2T 1
(125) — B
RMB L KEY — B19 — 2 3A OR 3C
(20) — RB

TO PROGRAM CONTROLLED TRANSVERTER CKT (ANI AND CAMA)
TMT (ZMV) (20)
(170) TMT L KEY — 3A 2 — B19

(LA) TCB
(LA) ST
(VZ) TCB
(VZ) ST
(20) (VZ) EXT
(125) (VZ) B
(20) (VZ) RB

TV3 — B17 2B 1
(8) (125,127) TVT — 5,- 6T,6
(VY) CKG
(VZ,SB) GC/CKG

ZXG,ZXH B26,B27
(DZ) AIDT — 3 4T
(DY) CTMB L KEY — 2 3C
(DZ) CTMB

B31 (41,TN) AIAI — 1 2T
(VZ) (VY) — B18
(UH,PG) MC — 8B 7
(UH,PG) (SZ)
(PG) OD L KEY — 2 3C
(SZ)
(UH,PG) AD L KEY — 2 1 — 3D
(SY) ODT/RNTO
(ZTL) RNT2 L KEY — 2 3D
AD/RNTI
RNT2O

(VZ) (44) MC10 — 4B 3 — PRLT
(AW) PRLK
(AV)
PRLK (AV) (AV) HGT8/PRLK
XHGA — 8B 7
248/83

AUTO. MONITOR REG AND SDR TEST CKT
ONS — SDT2 — -48
ONS1 — SD2A — -48

TRANSVERTER CKT
RS10 — CK1 — -48
RS10 — RS — -48

MTFC CKT
TIK — -48
TIK — TS- — -48

RS10 — EXT — -48
RS10 — CBG — -48
RS10 — RTR — -48

ANI TRANSVERTER CKT
TIK — TCB — -48
TVT N ST — NM — -48

CAMA TRANSVERTER CKT
RS10 — GCA — -48
RS10 — RS — -48
RS10 — EXT — -48
RS10 — CBG — -48
RS10 — RTR — -48

MTFC CKT
GC — CK1 RX — TRIA — GC — -48

TRANSVERTER CKT
TBC2 — CKG — -48

ANI TRANSVERTER CKT
GC — CK1 RX — TRI — GC — -48
CMB — -48

TRANSVERTER CKT
CMB — -48
RNTO
RNTI — -48
RNT2

RDR GC
PRLK — -48

CAMA TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT (CAMA)

MASTER TEST CONTROL CIRCU...
BELL TELEPHONE LABORATORIES INCORPORATED
65 (2)
SD-25800-01-B67
98B
DRAWING ISSUE

SD-25800-01-B68A

PART OF FS 66

TRANSVERTER TEST CONTROL

TRANSVERTER CKT

MTFC CKT

ANI TRANSVERTER CKT

AMA RECORDER CKT

DAS-ETS (CAMA)

XPI -48 COD CT2 TE PA

CIA CIB PIA TEB TEA CFAA CFAC CFAB C4C C4B C4A C3C C3B C3A C2C C2B C2A COD PT PTI TC TIA DS

XTKK -48 CK7 -48 XTKK CK5 XCK TRIA TE CK TE TBL TRBA TEP TEI TKK -48 PIB P5 IR DTK

COB PIB TEI TEP DS IR

TEB XTKK TEIA TEI CK7 -48 C TEA -48 COD RK -48 RK TCT XTU CIA COD DTN DTKA

UMG LP UK UMG XT XTU -48

4DG -48 4DG 5DG -48 5DG LST -48 LST L5D -48 L5D

IOD -48 IOD NID -48 NID AOS -48 AOS

125 PA RCI 10T 9 PA 4T 48 B20 700 -48

PTO 8.56-8.72 220 J 1075 B28

PTR 3 7 4

B22 -48 5 4 126 125 YA,YB PTO 1 6 P S-2600 5 2 P-200 PTO 1297 H 877 3 2 126 125 PTO JACK 1 6

RCI B26 7 8T

B21 -48 YA,YB PTR 6 1 P S-2600 2 5 P-200 PTR 373 F 530 PTR JACK

PTR 8.56-8.72 220 G 1075 B26

PAR B28 125 PA 1 2T 4T 48 B20 700 -48

CK 125 CK RCI 4B 3 TBL 1 2B CK 1 2B 4T 5B B20 700 -48

TAB 125 B27 TCK 4T 3 4T 4B B21 700 -48

IK 125 DTK RC2 12T 11 4T 4B B21 700 -48

DST 125 DS RCI 8B 7 6T 6B B21 700 -48

125 IR RC2 10T 9 4 5T COI 1 2B 3T 2 UCK DST A 226 B21 -48

125 C RC2 2T 1 B27

125 RK RC2 6T 5 B27

TEST ACCESS FOR CERTAIN MANUAL TESTS

TCT M46

DTN M56

DTKA M45

UK M39

4DG 20 KTV 7 8T 88,163 L KEY 3D 2 B19

5DG 20 KTV 9 10T 88,163 L KEY 3C 2

LST 20 KTV 11 12T 126,128 LST L KEY 3C 2 B19

L5D 20 KTV 11 12B 126,128 L5D L KEY 3D 2 B19

IOD OK 20 KTV 6B 5 QU,QW L KEY 3A,3C 2 B8

QU, QW

NID OK 20 KTV 8B 7 QY 3B 2 NID L KEY

AOS OK 20 KTV QY 10B 9

MASTER TEST CONTROL CIRC

BELL TELEPHONE LABORATORIES INCORPORATED

6S

2

SD-25800-01-B68A

ISSUE 98B

DRAWING ISSUE

5ID

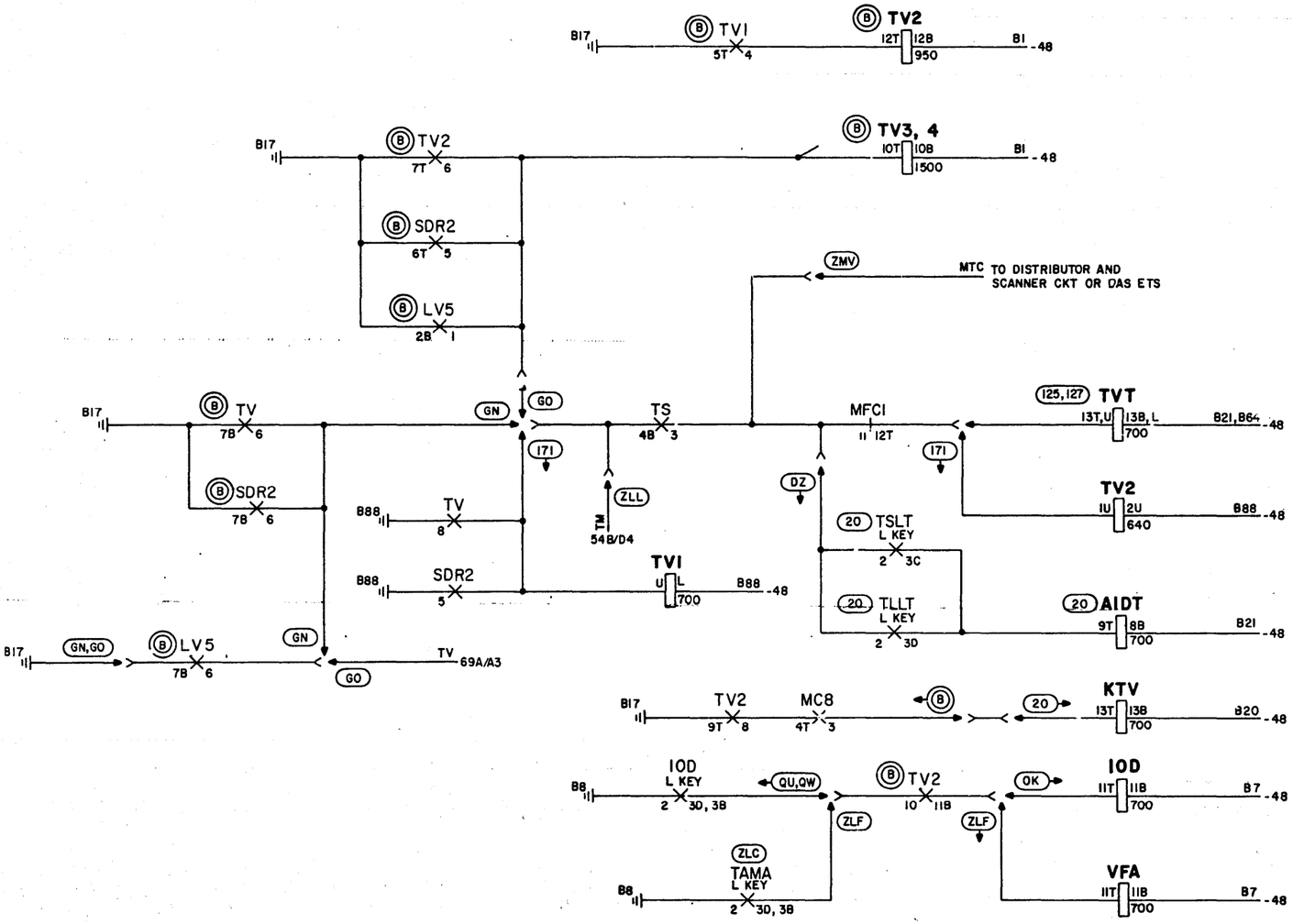
53D

B8D

B7D

WORN DRAWING REPRO DUCED WITHOUT CHANGE 2-19-69 JRR

PART OF FS 66
TRANSVERTER TEST CONTROL



MASTER TEST CONTROL CIRCUIT		DWG SIZE 6S	ISSUE 101A
BELL LABORATORIES	SD-25800-01-		B68B

PART OF FS 67
TRANSVERTER TEST CONTROL

COMPL MKR CKT

MTFC CKT

TRUNK TEST CKT

CAMA TV CKT

RCDR & RCDR CONN CKT

TRANSVERTER CKT

RCDR & RCDR CONN CKT

TRANSVERTER CKT (LAMA OR COMBINED ANI-LAMA) OR PROGRAM CONTROLLED TRANSVERTER CKT

TRANSVERTER CKT ONLY

ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT

CAMA TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT (CAMA)

CAMA TV ONLY

ISSUE 98B

MASTER TEST CONTROL CIR[illegible]

SD-25800-01-B69A

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PART OF FS 67

TRANSVERTER TEST CONTROL

TRANSVERTER CKT (LAMA OR COMBINED ANI-LAMA) OR PROGRAM CONTROLLED TRANSVERTER CKT

2TR SDT2 TVTA
TVTI
TVT2
TTKI

ANI TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT

TVT2 TVT
TTK 2TR SDT2

CAMA TRANSVERTER CKT OR PROGRAM CONTROLLED TRANSVERTER CKT (CAMA)

SDT2 2TR TVTA
TVTI
TVT2
TTK

6IH3

IA/D6

TRANSLATOR ACCESS CKT

TST TVK (ZID)

TVK (MV) (-46) (27,154) MTCP (27,154) (29,171) TVK 4T,1U 4B,2U B26,888 950,640 -48

(MZ) (64) ATV 6T 5 4 (MZ)

(46) CAM4 6T 5 4 (46)

TVK (MZ) (MW) (46)

TVK

TKT (KA) (UJ) TKT 6 7B (KA) (VZ) (VZ)

B6 (KA)

TKT (KA) (SD) 47 ANI L KEY 3C 2 (SD)

TKT (BG) (ZPV)

B6 (KJ) (UJ) TKT (BG) (KI)

(BH) 12B (FF) TKTI 11 B6

(ZPV) 4 (KH) ANI L KEY 5C

(ZPV) (47) TVTC L KEY 5 6A (SD) (SD)

(ZPS) (ZPS) (ZPT) (ZPS)

B17 (B) TV2 7B 6 (SB)

(47) ANI L KEY 5C 4 (KH) (KH)

B17 (B) LV5 11B 10 (SB) (48) ATLV 6B 5 (SB)

(IK) (48) DCN 9T 9B 2500 32B -48

(IL) (48) DCN 1U 2U 2450 B28 -48

B30 CAM7 4T 3 (40)

B31 TVA 10B 9 (44)

(46) CAM4 10T 10B 700 B27 -48

(MU) (64) ATV 10T 10B 700 B27 -48 (MZ)

(48) DCN 3 4B

B28 (48) ASDR 7B 6 (SB)

B28 (MZ) (IK) (48) DCN 11 (IK) (MZ)

(IL) (IL)

(SB) (ZON) 12 (127) TVTI (ZON)

B73 (ZTW) ATVA 12 (127) DNK 10 (128) ATDL L KEY 1 2C

(ZTW) ATVB U L 270 C86 -48

12 (ZTW) ATVB

(ZTW) ATVC U L 270 886 -48

(ZTW) ATVA 1U 2U 640 B86 -48

MASTER TEST CONTROL CIRCUIT	DWG SIZE 6S	ISSUE 104B
BELL LABORATORIES SD-25800-01-		B69B

SD-25800-01-870

STABILO

FS 68
CAMA TESTING

OUTGOING SENDER LINK CKT (ASSOCIATED WITH CAMA SENDER GR "0")

OUTGOING SENDER LINK CKT (ASSOCIATED WITH CAMA SENDER GR "1")

OUTGOING SENDER LINK CKT (ASSOCIATED WITH CAMA SENDER GR "2")

OUTGOING SENDER LINK CKT (ASSOCIATED WITH CAMA SENDER GR "3")

(85) SGU SW (43,63) SG SW SECT. 3 CKT A

(85) SGU SW (43,63) SG SW SECT 3 CKT B

HM SC HM SC HM SC HM SC

1 SG0,0 2 SG1,1 3 SG2,2 4 SG3,3

7 SG0,0 8 SG1,1 9 SG2,2 10 SG3,9

(63,85) (43) (63) (43,85) ALL 12,18 (43,63,85) (41) FCAM 1 2B (41) (43,63,85) ALL 6

CAMA TRANSVERTER CKT

(ZKL) PCAM L KEY 2 3B KTN KTN1 -48 39A/E0

(ZKM) (44)

B31 MC10 10T 9 BIO L KEY 2 3D (44) BIT TVT BIT -48

BI1 L KEY 2 3C

LOMO L KEY 2 3A (44) LONM TVT LONM -48

LOM1 L KEY 2 3B

B31 MC10 8T 7 BIO L KEY 2 3A (44) TSTO BIT TSTO -48 LONM

(ZKL) PCAM L KEY CP1 5 6B (ZKM) (44)

39C/B3 (ZKL) PCAM L KEY CP7 5 6C (ZKM) (44)

BI1 L KEY 2 3B (44) TST1 BIT TST1 -48 LONM

LOMO L KEY 2 3D

LOM1 L KEY 2 3C

B31 MC10 4T 3 TI3 L KEY 2 3A 3 TI2 L KEY 2 3C 2 TI1 L KEY 2 3D 1 0 0-3 (44) TI(0-3) MTFC CKT TI(0-3) -48

DAS ETS (CAMA)

B12 (VZ) (VX,YY) K1C1 12T 11 (VZ) (41) CAM2 108 9 (44) MC10 9 10B SKO SKO -48

CTV CONN CKT

CAMA SDR CKT

(41) ACD L KEY 2 3D ACD ACD -48

(41) LCD2 L KEY 2 3B LCD2 LCD2 -48

(41) LCD1 L KEY 2 3A LCD1 LCD1 -48

LCDO LCDO -48

(VZ) (VX,YY) K1C1 10T 9 (VZ) (41) CAM2 128 11 (44) MC10 11 12B SK1 SK1 -48

(41) FC L KEY 2 3D FC FC -48

(41) VTC L KEY 2 3B VTC VTC -48

(41) DNC L KEY 2 3A DNC DNC -48

WKC WKC -48

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S (2) SD-25800-01-B70

ISSUE 98B

DRAWING ISSUE 510 7/74 AHK 760 CB

FS 69
CAMA TESTS

CAMA SDR CKT

CAMA POSITION LK CKT

TRUNK TEST CKT
CAMA

MASTER TEST CONTROL CIRC

SIGALING RECEIVING CKT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B 71

SD-25800-01-B 71

SD-25800-01-872

STABILO

FS 70
PRETRANSLATOR TESTS

MTFC CKT

PRETRANSLATOR CKT

HD HDK HD

TRB

TRA TRL HD R

TRTR

PCK

153 IRL 3

PST B26 8T 7B 400

PTR1 3B 2

PRL 5B 4

PTI 1 2T

ZRS

PST 226 B20 -48

PST 6B 5

5 6B SR

PC1 6B 5

HD

TS MFC1 B2 4T 3 6T 5 10B/A8

PC1 6T 5

PT1 SR 8B 7

PC1 11 12T

PC1 13T 13B B20 700 -48

G1 B26 5T 4

GR 5T 4

PC2 2B 1

PCK

PC1 8T 7

PC2 13T 13B B20 700 -48

PST 5T 4

HD C2 OR B24 -48

PTR L KEY B19 5B OR 5D 4

OT L KEY 2A 1

PC1 12B 11

PC3 7T 7B B20 850 -48

PST 2T 1

G1 4 5B

GR 3T 2 1

PRL 1 2B

PTR1 1 2T

SR 11T 9B B20 830 -48

2C PRL L KEY 1 4 5

6C OR 6A PTR L KEY

G1 B26 7T 6 -48

GR B26 7T 6 -48

PRL B26 2T 1 -48

PTR B26 4T 3 -48

PTI 6 7B

ZPY IRPT L KEY 2 3B

ZRR

153 IRPT U L B45 700 -48

12

153

PRETRANSLATOR CKT

MTFC CKT

HD TRL

TRBA

HD TRB

TRBA

TRTR

TRTR

INC REG PRT ONLY

TRL LKT FAI

FAI

CSD KTR PW1

CCM KTR CM3

CMA

CMB

CMC

CMK LK

INC REG PRT ONLY

TRL LKT TRT

CMK

INC REG PRT ONLY

G1T PC1 1 2B

GR PC1 3 4B

PRL PC1 7 8B

RLK PC1 9 10B

TR PTR PC2 3 4B

SD PC3 5 6T

CMA PC3 1 2B

CMB PC3 3 4B

CMC PC3 5 6B

TRI IRL PCI 9 10T

CMK PC2 11 12T

RLK L KEY 3C 2 1

PRL 7T 6

GR 6 7B

PRL L KEY 1 2B

PTR L KEY 2 3B OR 3D

PST 1 2B

G1 6 7B

RLK L KEY 1 2B

PTR L KEY 1 2A OR 2C

RLO L KEY 1 2A

RLO L KEY 2D 1

153 IRPT 11

153 IRPT 1

153 IRPT 2

IRPT 3

153 IRPT 4

153 IRPT 10

153 IRLK L KEY 2 3C

IRL 1L 2L B45 640

153 IRL 5

153 IRL B44 1

G1 10T 8B B20 700 -48

SR 9T 8 4T 3

GR 10T 8B B20 700 -48

SR 9T 8 2T 1

PRL 9T 8

PRL 10TF 9BF B20 P-850 -48

11TR 9BR B20 S-1750 -48

PTR1 8T 6B B20 700 -48

SD 4T 5B B20 700 -48

48 3

CM3 4T 5B B20 700 -48

48 3

ZI CMA 4T 5B B20 700 -48

48 3

ZJ CMB 4T 5B B20 700 -48

48 3

ZK CMC 4T 5B B20 700 -48

48 3

IRL 1L 2L B45 640

PRL LK L KEY B19 1 5T 1 2A

KR1 B8 68 5 66C3

72A9 KR ZRR

KR 72A6

G1 B26 7T 6 -48

GR B26 7T 6 -48

PRL B26 2T 1 -48

PTR B26 4T 3 -48

SD B26 2B 1 -48

CM3 B26 2B 1 -48

CMA B26 2B 1 -48

CMB B26 2B 1 -48

CMC B26 2B 1 -48

60B/AB-CB

BELL TELEPHONE LABORATORIES INCORPORATED

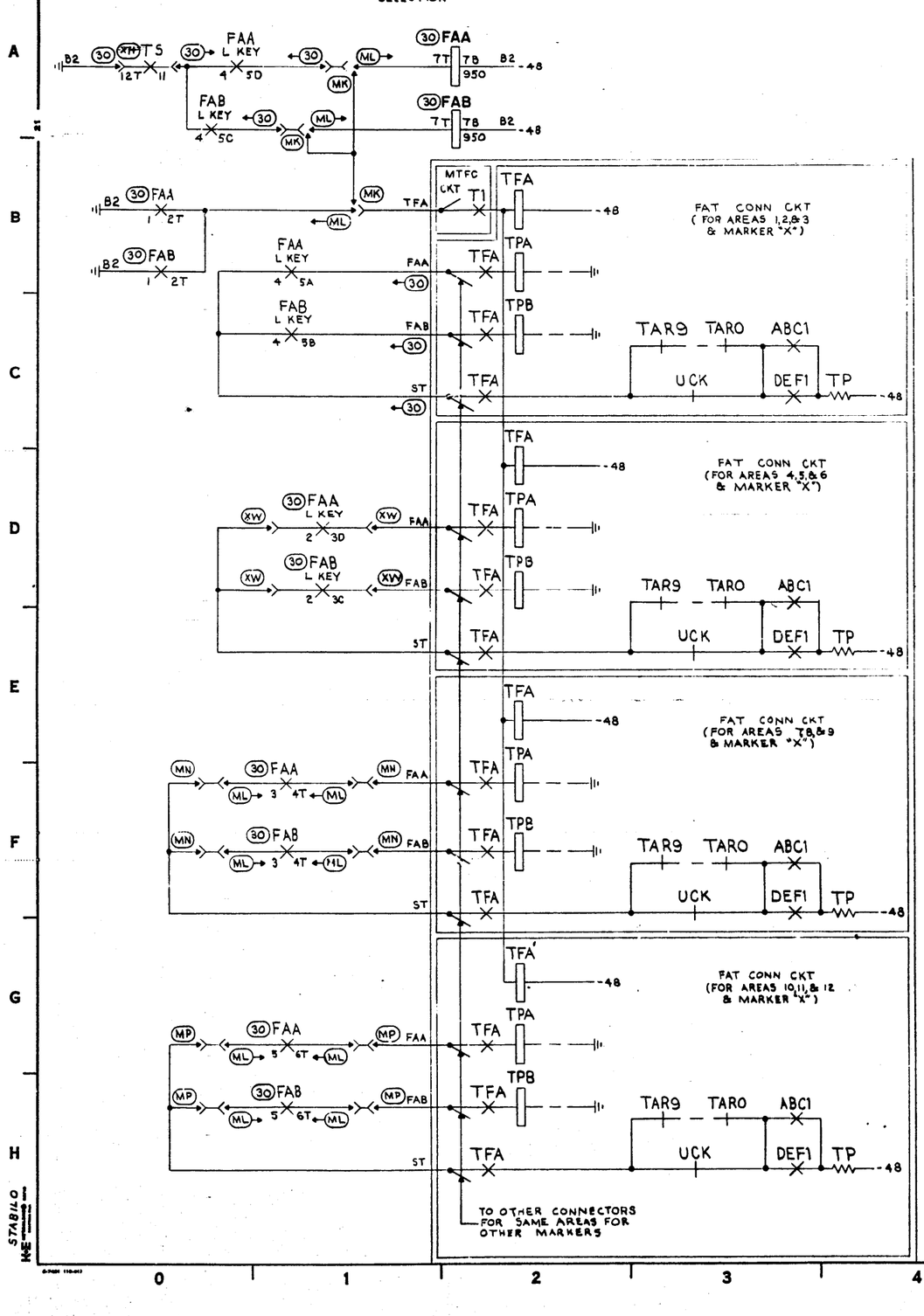
MASTER TEST CONTROL CIRCUIT

SD-25800-01-872

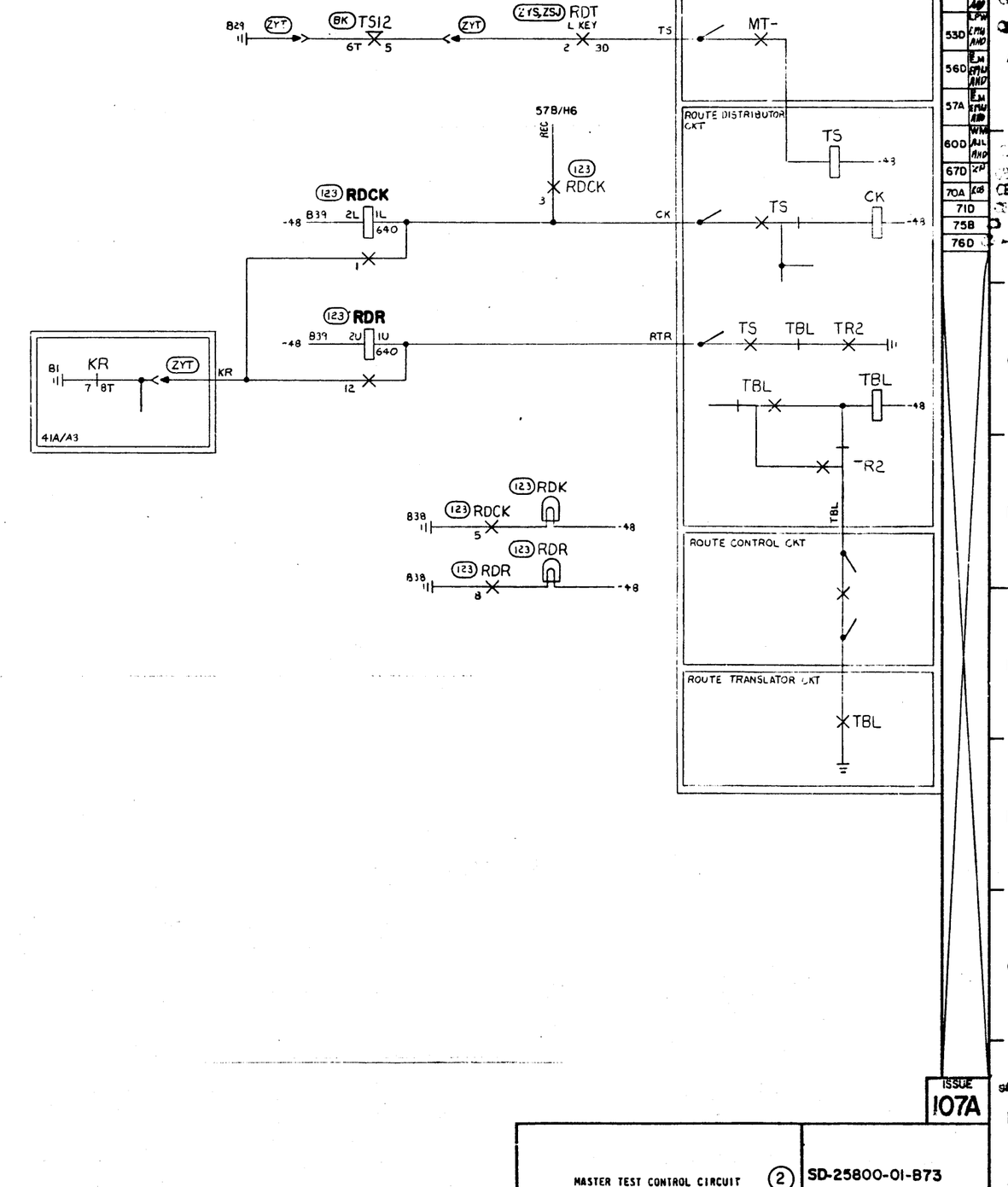
ISSUE 87A

DRAWING ISSUE 820 83A 800 670 630 560 510

FS 71
FOREIGN AREA TRANSLATOR SELECTION



FS 107 (MFR DISC)
ROUTE DISTRIBUTOR TEST



DRAWING ISSUE	
510	UAT Low Amp
530	CPM AND
560	EM CPM AND
57A	EM CPM AND
600	WM AUL AND
670	XP
70A	KOS
710	
758	
760	

ISSUE 107A

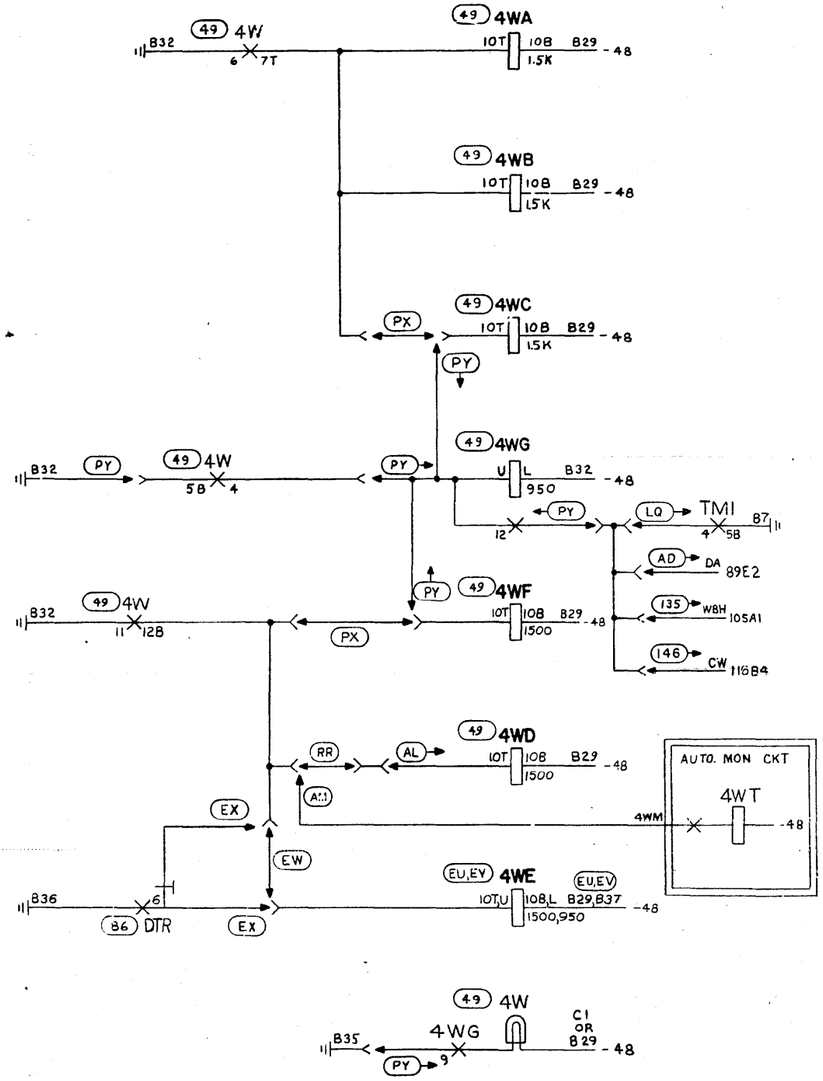
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B73

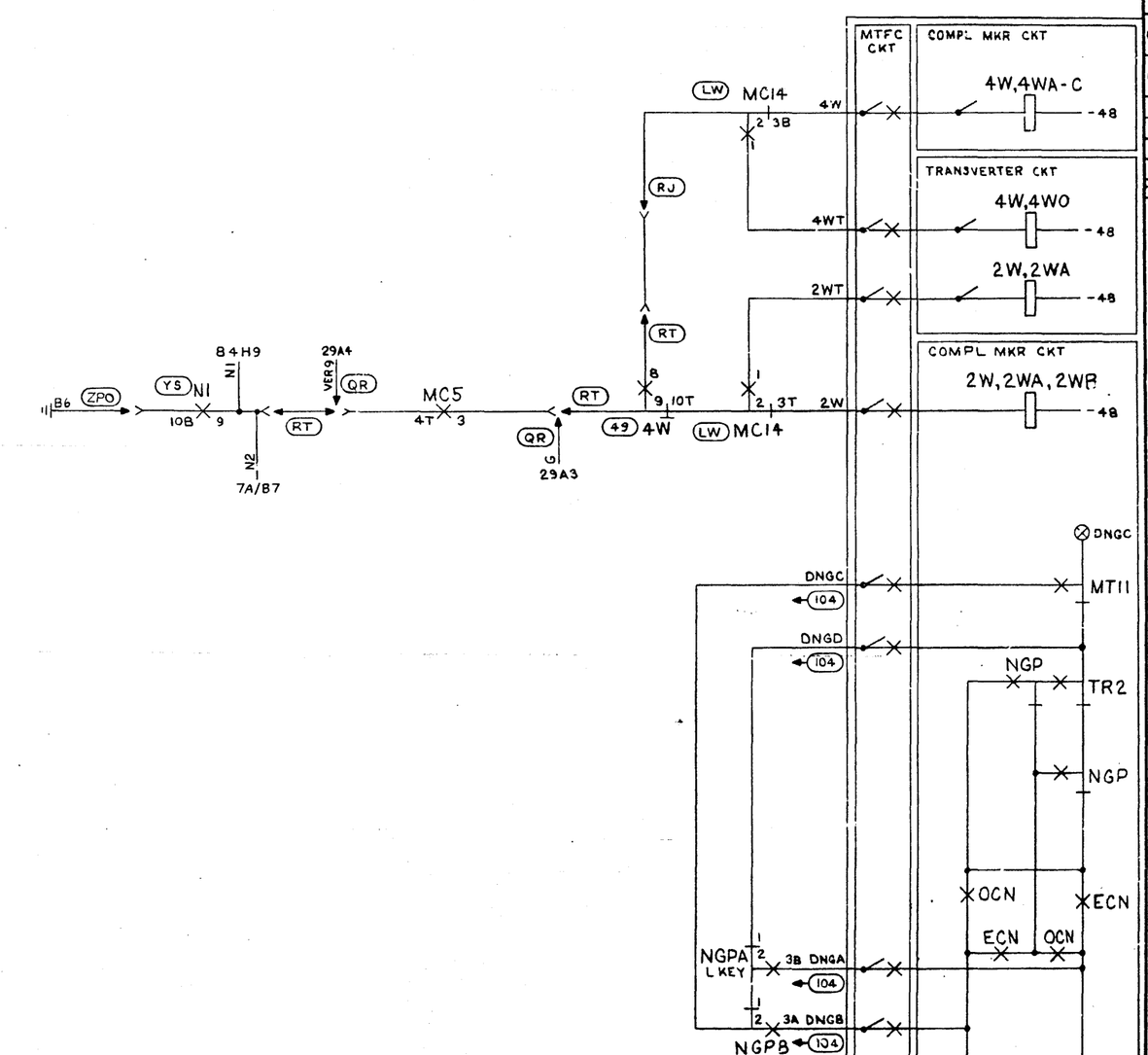
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B73

STABILO

FS72
4-WIRE TESTS





DRAWING ISSUE
58D
60D
61A
62D
63D
65D
71D
74A
76D
78D
83A

83

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B74

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B74

STABILO

REGISTER PRIORITY LINK CKT

FS 73 (MFR DISC)

CAMP-ON

NOFK

MCB-

OFOK

MCA-

OF1K

ODK

EVK

TC-- S(00-59)

TC(50-54) TC(30-34) TC(10-14)

TC(40-44) TC(20-24) TC(00-04)

MTFC CKT

OFO

OF1

ODD

EV

CE

L-- HM-

HM-

TS

PLS CS

COMPL MKR CKT

PG-

MC13

CPN L KEY

MKT1

CPNE

CCE

CCM L KEY

MC12

COMPL MKR CKT

XCE

BRL

ORIG

INC

RT

PR

MG-

REGISTER PRIORITY LINK CKT

SM- PR TS

IA-- IB-- IC-- ID-- OFO OF1

V- L-

ITO L KEY

IT1 L KEY

IT2 L KEY

IT3 L KEY

NIT NL KEY

ITRK

BRL1

4W TRK CKT

MB GB--

TC- PG- SM-

MC- TC-

REGISTER PRIORITY LINK CKT

PLS ITK CE TBK CPN

ITB FTCK

COMPL MKR CKT

BTG

BRL

BRL L KEY

KR1

KR

SK

LK

43C9

43E5

88H2

88E3

86H0

61E7

45H2

DRAWING ISSUE	
51D	MD LW AHO
52A	MD LW AHO
53D	CL CAL AHO
56D	MS CAL AHO
57A	MS CAL AHO
58D	JLR ASL AHO
61A	ASL AHO
64A	TEM AHO

ISSUE 100B

MASTER TEST CONTROL CIRCUIT

SD-25800-01-875

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

FS 74

ECHO SUPPRESSOR AND PAD CONTROL

MTFC CKT | COMPLETING MARKER CKT | TRK LINK CONN CKT | OUT. TRK CKT OR TRK LINK APP OF INC TRK CKT | MTFC CKT

NTES L KEY TLE1 58 4 (76)
TES L KEY 3D B32
MC18 MC15 TLES -48 MT11
ES -48
ESCK
TES1 (76)
TESK MC18 12T 11 NTES L KEY 2 1 3B GESK L KEY 3A OESK L KEY 2B TLES 8T GB B29 -48 700 7T 6
TES L KEY 3A B32
MC15 12T 11 B586
LESK MC18 6T 5 NLES L KEY 3B LES L KEY 3A GESK L KEY 30 OESK L KEY 2C LLES 8T GB B29 -48 700 7T 6
MC15 6T 5 B462
LES1 (76)
ENI (BK) TS12 48 3
CKCB 8T 6B B29 -48 700 7T 6
SCBI 5 6T 3T 10B
ESCK 8T 6B B29 -48 700 7T 6
ENFL 9T 8B B29 -48 700 8T 7
ENCB 9T 8B B29 -48 700 8T 7
KR 3B0
MC15 7 8T B461
LES L KEY B32 3D
MC18 7 8T
NLES L KEY LLE1 58 4 (76)
MT11 LLES -48
LINE LINK CONN CKT | LINE LINK APP OF INC TRK CKT
ES -48
TOG1 LXP1 SOG1 TER2 NS1 2WD1-3, 2WD SG TLES LLES ENES -48
TLES LLES ESK -48 ENES ESK1 ESK2 -48
ECK1 ECK ECK3 ECK2 -48
MT11 TLES LLES
2WD MC15 4T 3 TTL3 9 10B OTL3 9 10B AP,AQ 2WD L KEY 2 3A 6T 5 2WCB L KEY 2 3A MC18 10B 9 FR SCB

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B76

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01 B76

STABILO

FS 75 (MFR DISC)
CONFERENCE CONTROLLER TEST

CONFERENCE CONTROLLER CKT

TO ALL OTHER CONF CONT CIRCUITS

(62) RC — B35 CRC 12 — -48

T — AST — (62) — CCT — PS1 TC2 — CC — (62) — -48

T1 T2 — -48 — T — T1 — (62) — IST L KEY 6C 5 — B32

TA1 2 — -48 — T — TA — (62) — CTAD L KEY 2D 1 — STAA L KEY 1 2C

ECA TC2 — EC — (62) — -48 — EC

RC TC2 — RC — (62) — CRC 1U 2U 640 B32 — -48

STRC TC2 — -48 — RC — S TRC — (62) — STRC NL KEY 2 3B B32 — RST B35 5 — 10 CRC

PS — FIRST BRLO BTO MRLO — TRLO MRLAO — LAST BRL- BT- MRL- — TRL- MRLA- — TC2 — STA — (62)

IST L KEY 2 3B — CTAD L KEY 4D 3 — STAA L KEY 6C 5 — CCT U L 950 B32 — -48

STAA L KEY 1 2B — ASTR 9 — STA 8 — AST 1U 1L P-450 2U 2L S-57 B32 — -48 — CCT 7 — 10 AST

IST L KEY B32 2 3C — CTAD L KEY B32 6D 5 — STAD NL KEY 3A 2 — STA U L 400 B32 — -48

3 4C STAA L KEY — 8 ASTR — 12 STA — 6 ASTR — AST 6 — ASTR U L 2500 B32 — -48 — B35 CCT 4 — (62) ST — B35 (62) STA 11 — -48

RS- — CNR16 — TRL16 MRLA16 — RTMB CNR16 MRL16 — AL16 — TA- TI — PSI — -48 — TA- TI- — STA

RS- — CNR- — TRL- MRLA- — RTM- CNR- MRL- — AL- — TA- TI — PSI — -48 — STI-15

RS- — CNRO — TRLO MRLAO — RTMA CNRO MRLO — ALO TA- TI — PSI — -48 — STO

STL — (62) — B32 — (62) ST SEL SW SECT.1 — ST16 — JZ IA — 16 18 — 10-15 10-15 — 1-9 1-9 — 24 0 — (62) SELU SW SECT.1 — 7 8 — 1-6 0-5 — (62) SELU SW SECT.2 — 1-9 2-10 1-9 — 1 0 — (62)

ALL 23 — JZ (62) — IST L KEY 5 6B — STAD NL KEY 1 2D — STRC NL KEY 1 2C — RST 1 — STA 1 — B32 — 48

ALL 12 — 3A 2 1 — (62) SLT1 L KEY

6A 5 — CTAD L KEY

STAA L KEY 5 6B

DRAWING ISSUE

51D	RL	CB
52A	RL	C
56D	EM	A
59A		CB

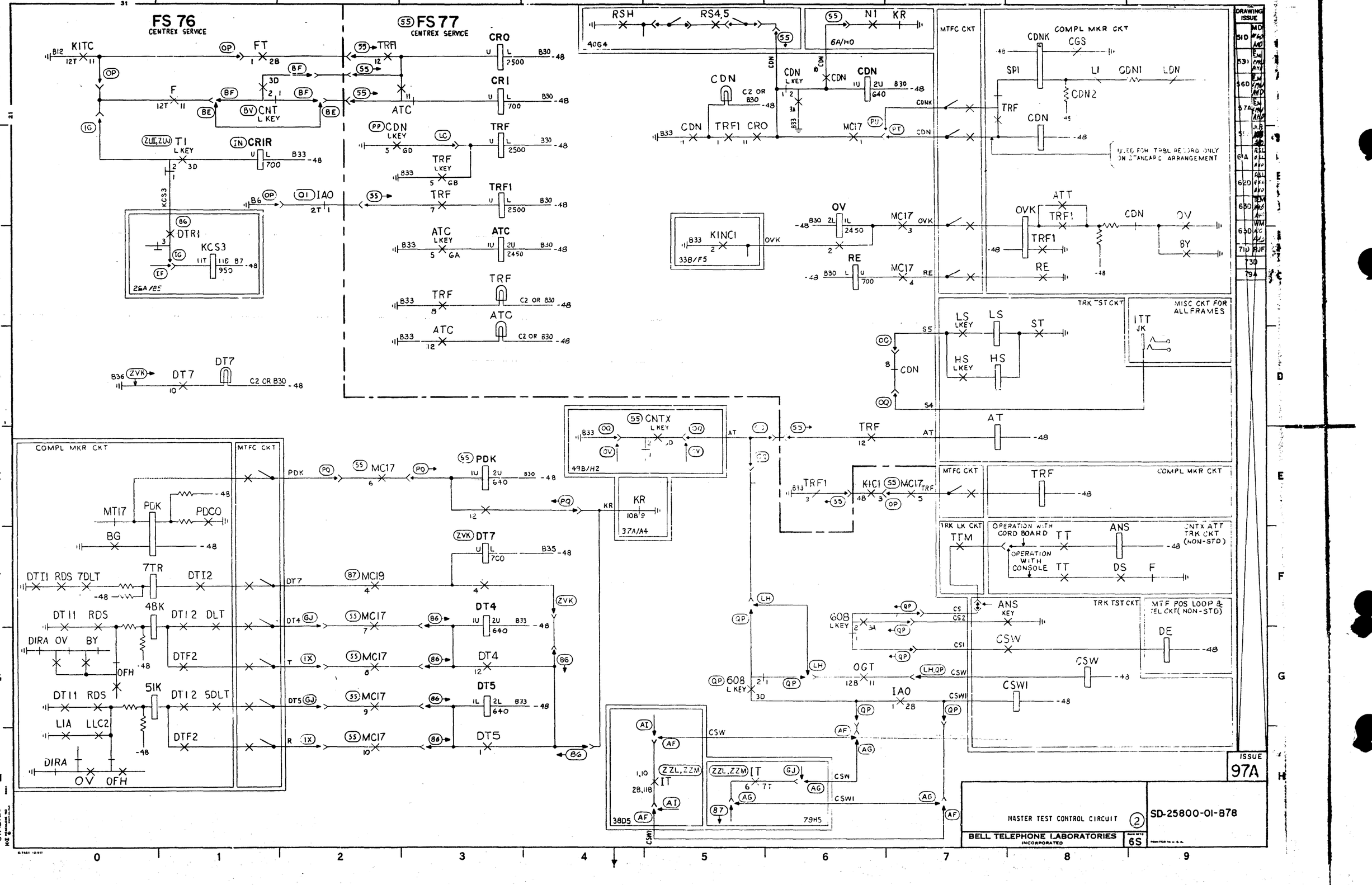
ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-B77

BELL TELEPHONE LABORATORIES INCORPORATED — PAGE NO. 65

STABILO

SD-25800-01-B77


FS 76
CENTREX SERVICE
(55) FS 77
CENTREX SERVICE
RSH
RS4,5
4064
(55) N1 KR
6A/HO
MTFC CKT
COMPL MKR CKT
CDNK CGS
SPI LI GDNI LDN
CDN2
TRF
CDN
USED FOR TRBL RECORD ONLY ON STANDARD ARRANGEMENT
KITC
FT
TRF1
CRO
CR1
ATC
CNT
L KEY
TI
L KEY
CRIR
PP CDN
LKEY
TRF
LKEY
LC
TRF
TRF1
ATC
ATC
TRF
ATC
DTR1
KCS3
IAO
OV
KINC1
338/F5
RE
MC17
TRK TST CKT
MISC CKT FOR ALL FRAMES
LS
LKEY
ST
HS
LKEY
ITT
JK
DT7
AT
TRF1
KIC1
TRK LK CKT
TTM
OPERATION WITH CORD BOARD
OPERATION WITH CONSOLE
TT
ANS
DS
F
CNTX ATT TRK CKT (NON-STD)
608
LKEY
CS
CS2
CS1
CSW
CSWI
OGT
IAO
ANS
KEY
MTF POS LOOP & TEL CKT (NON-STD)
DE
COMPL MKR CKT
MTFC CKT
MTI7
PDK
PDCO
BG
DTI1 RDS 7DLT
7TR
DTI2
DTI1 RDS
48K
DTI2 DLT
DIRA OV BY
DTF2
OFH
DTI1 RDS
51K
DTI2 5DLT
LIA LLC2
DTF2
DIRA
OV OFH
PDK
MC17
KR
DT7
MC19
DT4
DT5
CNTX
L KEY
49B/H2
37A/A4
AT
TRF
MC17
AI
AF
CSW
IT
ZZL,ZZM
38D5
79H5
AG
CSWI
DRAWING ISSUE
510
531
560
574
620
630
650
710
730
794
ISSUE 97A
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-878
BELL TELEPHONE LABORATORIES INCORPORATED
6S

FS 78
CENTREX SERVICE POSITION AND POSITION LINK CONTROL

CENTREX ATT ACCESS TRK CKT OR CENTREX CONF CKT

CENTREX ATT TRK CKT

CENTREX POS LINK CKT

CENTREX TST POS AND POS LOOP CKT

CENTREX POS AND POS LOOP CKT

60 IPM INTER. CKT

CENTREX TEST POS AND POS LOOP CKT

CENTREX ATT TRK CKT

CENTREX POS LINK CKT

TEST INC TRK CKT (PHASE III)

TEST INC TRK CKT (WB-PHASE III CENTREX)

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-879

BELL TELEPHONE LABORATORIES INCORPORATED

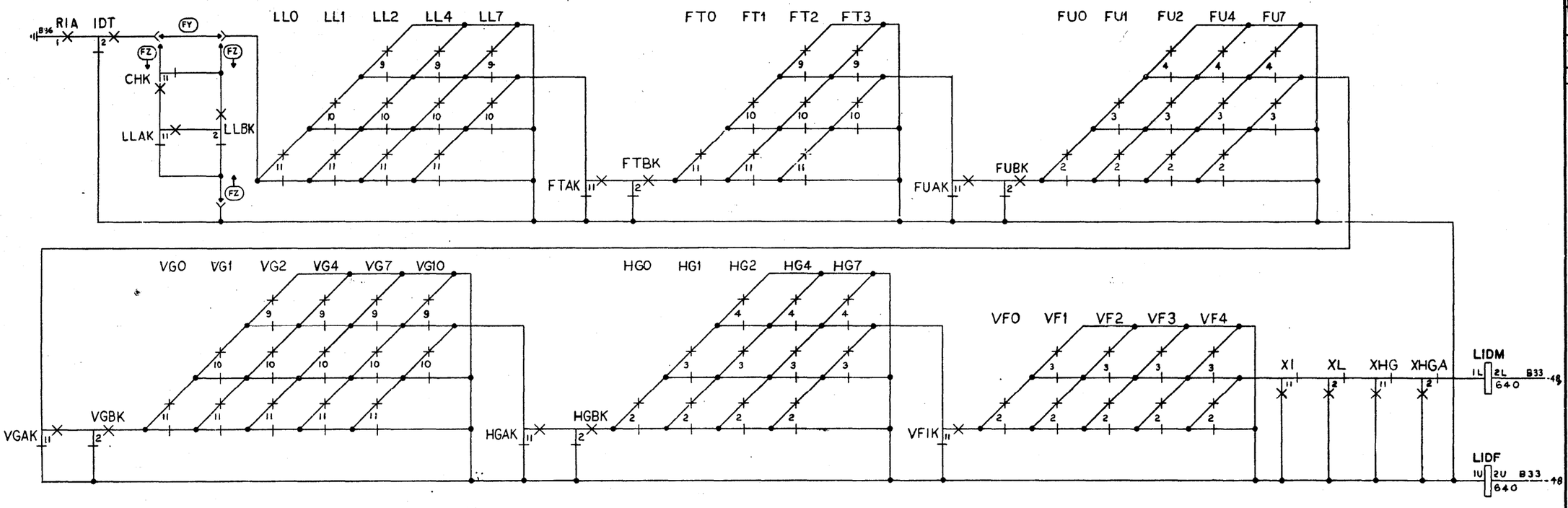
6S

DRAWING ISSUE 100B

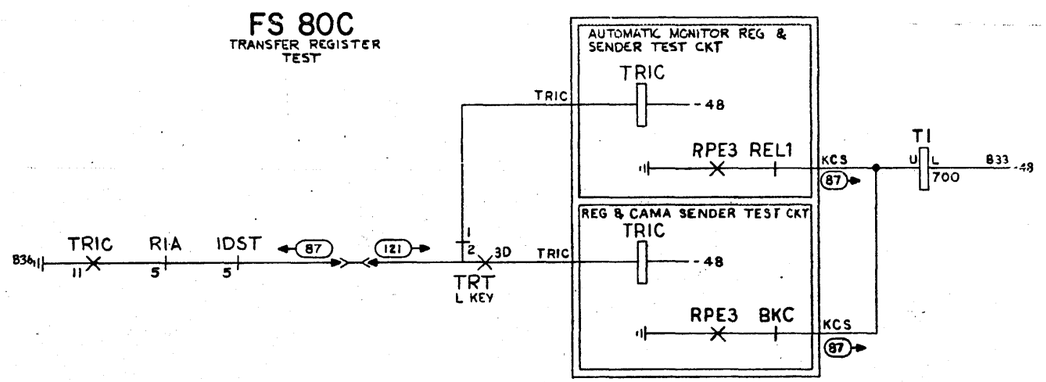
(87) FS 80A
LINE IDENTIFIER CHECK
AND TRANSFER REGISTER TEST

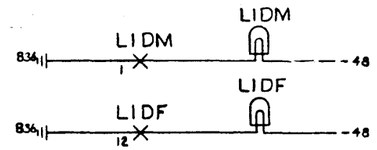
LINE LINK CKT
CALLED LINE SLEEVE
HGBO-9
HOLD L- -48
HOLD J- -48
TRUNK LINK CKT
HOLD -48
HOLD -48
48C/D4
LLP3
60 11 12T
LTI 4 5T
AX
56 NARL NL KEY 20 1
ZXT, ZXU
NAH L KEY 35 2
S
GH
GI
ID 2 1
ID 8
S 10 B6
52A/A4
LINE IDENT POWER SUPPLY CKT
SOO-29
LLO-9
LOO-9
LDOO-9
LHO-9
ST
LA
IA
HGO-9
ON1
ONA
LT-TLL
LT-TL!
LT-TP
PO
TO EMERGENCY POWER SUPPLY
-48
LA
IA
LAO-9
LLO-9
SOO-29
HGO-9
LC
IC
SAOO-29
TRANSFER LINE IDENTIEIFER AND CONNECTOR CKT
ON
RI
PO -48
+130 B2
LR 1800
LR
LR3 3.92 MEG
LR1 .1 MEG
LR2 1000
LR 2.14 - 2.18
RIA
ID
KL1
B36 LIK2 5 U L 700 B33 -48
LR B36 1 -48
LR U L 2500 IDST 11 B36
TRANSFER REG IDENT CONN CKT - REG PART
B36 IDST 10 TST
TO OTHER TRIC CKT
RIS (TST)
TRANSFER REG CKT (LAST) M RIS-
TRANSFER REG CKT (INT) M RIS-
TRANSFER REG CKT (FIRST) M RIS-
PREF CONT CKT
TST -48
CONN "O"
CONN "I"
RIS (TST)
TRANSFER REG IDENT CONN CKT - IDENT PART
TRANSFER REG IDENT CONN CKT IDENT PART
TO OTHER TRIC CKT
F
+130 F R
F RI ON TST F LIK2 4 U L 270 B36
ID
S 1/30 LL 1/10 HGK TST RIA LIK2 3 U L 270 B33 -48
RIA
TRIC-REG PART
TO TRANS REG
LIK2 12 836 9
LR B3 11
LIDF 9
LIDM 4
RI -48 TST RI
LA IA TST IDT
IDT 1L 2L LIK1 640 B35 -48
TO OTHER TRIC CKT
LIDM
-48 B35 LIK1 1 IDST 1 RIA 2 5 8 LIDF
IDO L KEY 2 3A STO
ID1 L KEY 2 3B ST1
IDST R
TRIC
-48 B33 2U 1U 2450 TRIC
TRIC 12 ST
TO OTHER TRIC CKT
-48 TST
TST
TST
TST CB IS IS
TRANSFER REG IDENT CONN CKT - IDENT PART
FZ
CHK 8 CHK
BA/C4
IDT RIA 3 B36
83A9
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-880
BELL TELEPHONE LABORATORIES INCORPORATED
6S
ISSUE 101A
DRAWING ISSUE
53D
56D
57A
59A
61A
63A
730
SD-25800-01-880
STABILO
0 1 2 3 4 5 6 7 8 9
A B C D E F G H

(87) FS 80B
LINE IDENTIFIER CHECK



FS 80C
TRANSFER REGISTER TEST





DRAWING ISSUE
53D
56D
59A
65D
68A

ISSUE 104B

MASTER TEST CONTROL CIRCUIT

SD-25800-01-881

BELL TELEPHONE LABORATORIES INCORPORATED

6S

FS 81
DIAL TRANSFER
TEST APPEARANCES

TRUNK TEST CKT

TEST INCOMING TRUNK CKT

DCO
DCO
T
R
TO LINE LINK
TO TRUNK LINK
TF LF DCO
DCO DT
-48
CTX3
CTX3
TI
RI
TS
S
NTC3 8
NTC3 7
TRUNK TEST CKT
AS
TRTT
TLS
MARKER CKT
MTFC CKT
NTC1
2 3B
NTH2
NTC3
-48
86
TSI
LXP
4
5 6B
NTC1
528/D7
TRC Z W ID
ST

REG & CAMA SDR TEST CKT
TLR L KEY
OFR
RW OFR U L B33 -48 700
RON
OFR1
RW OFR 6
ON -48
BT
OFR2
STATION DIAL TR REG CKT

NTC3 12
NTC3 11
NTC3 10
NTC3 9
86
ZKW
ZKV
94 CONA L KEY 3C 2
94 CONA L KEY 3B 2
P
T
R
TI
RI
TS
S
TT
TR
TTI
TRI
TTS
TSI
ST
NTH2 12
NTH2 11
NTH2 10
NTH2 9
NTH2 8
NTH2 7
LLAT L KEY 2 3C
L-
5IB/G6
5IB/A7
5IA/E1

TRANSFER LINE CKT
TEST LINE TRUNK APPEARANCE
NO TEST
TEST APPEARANCE

DRAWING ISSUE
B30
87A
89A
61A
64A
65D
76D
78D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-882
BELL TELEPHONE LABORATORIES INCORPORATED
65

STABILO

(87) FS 83
LINE IDENTIFICATION CROSS CHECK

LINE, LINE LINK & MKR CONN CONT CKT

TR REG IDENT CONN CKT IDENT PART

DRAWING ISSUE

56D	DS
59A	CVC
64A	TJD
70A	RF

SD-25800-01-883

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-883

BELL TELEPHONE LABORATORIES INCORPORATED

70

SD-25800-01-884

FS 84 (MFR DISC)

CALL PRIVILEGE CONTROL

MTFC CKT

COMPLETING MKR CKT

A (96) CDPU SW SECT. 1

1,2,4,7 2,3,5,8 → 0
3,5,8 4,6,9 → 1
6,9 7,10 → 2
0 1 → 4

SECT. 2

1 2
2,3 3,4
4,5,6 5,6,7
7,8,9,0 8,9,10,1 → 7

0,1,2,4,7 0,1,2,4,7

(49) MC15 7 8T — DD — (96) CPTI L KEY 2 1 3A — A 12 ALL
KO KO LES LLES 76E0
DD 99

(49) MC15 5 6T — DD — (96) CPTI L KEY 2 1 3D — B 12 ALL
KO KO NLES LESK 76E6
DD

B (96) CDPU SW SECT. 3

0,5 1,6 → 0
1,6 2,7 → 1
2,7 3,8 → 2
4 5 → 4
3 4 → 7

A 12 ALL → 0,1,2,4,7

SECT. 4

0-4 1-5 → 10
5,6,7 6,7,8 → 15

B 12 ALL → 10, 15

CDPO 1,2,4, 7,10,15 — DD — AN — CDP0,1,2 4,7,10,15 -48

C CD SW SECT. 1

LE,LF JQ

1,2,4,7 2,3,5,8 → 0
3,5,8 4,6,9 → 1
6,9 7,10 → 2
0 1 → 4

SECT. 2

1 2
2,3 3,4
4,5,6 5,6,7
7,8,9,0 8,9,10,1 → 7

DB — (49) MC15 11 12B — (95) — A 12 ALL
DA — (96)

DB — (49) MC15 9 10B — (95) — B 12 ALL
DA — (96)

0,1,2,4,7 (95) — CDO, 1,2,4,7 — (95,96) — AN — CDO,1 2,4,7 -48
(96)

CDT1 L KEY 2 1 3A — A
CDT1 L KEY 2 1 3D — B

A CDU SW — 0,1,2,4,7
B CDU SW — 0,1,2,4,7

10, 15 — CD10, 15 — (95,96) — AN — CD10,15 -48

(49) MC15 5 6B — DB — MJ — DC — A
(49) MC15 3 4B — DB — MJ — DC — B
DA — (96)

C (JP,JQ) CDA SW (JP) (JQ)

0,1,2,4,7 (DC) — CDAO 1,2,4,7 — DC — (96) — AN — CDAO,1, 2,4,7 -48
(96)

A CDA SW — 0,1,2,4,7

9382-B8

TV CKT

LW 6T MC14 5 4 — DB — (95) — A
LW MC14 7 8T — DA — (96) — B

C CD SW SECT. 3 SECT. 4 — 0,1,2,4,7 — (95) — CDTO, 1, 2, 4, 7 — CDTO,1, 2,4,7 -48
(96)

DB — LW MC14 7 8B — (95) — (96) — A
DB — DA — DA — B

A CDU SW SECT. 5 SECT. 6 — 0,1,2,4,7

9 YS N1 10B RT 74C5

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-884

BELL TELEPHONE LABORATORIES INCORPORATED

65 66

66A 63D 61A 580

FS 85 (MFR DISC)
MARKER MULTILEVEL STATUS CONTROL AND SIMULATED AUX LINE

TRUNK TEST CKT
AUX LINE CKT
LL
LLC
COMPL MKR CKT
MTFC CKT
COMPLETING MKR CKT

F LT 4WLT TMI
FA(2)
FR- OR FS-
-48
TRUNK LINK AND CONN CKT (4 WIRE)
FA
37B/D4
99 LLF
LLF
1U 1L
P-1175 2L S-1075
B39 -48
B38 98 SKAL 2U
B38 99 4WLT 12 5
DO 4
KR
108 9
37A/A4

F
VFTO-4 MT- F130
AF DO 25 TS4 99 LLF 7 88 8
98 ALB L KEY 2 1 38
98 AF 2U 1U B38 640
AFI DO

F
RL
PLFK XPLF -48
AFK 98
AF 8
AFK 300 B38

RL -48
F
LTA LLC3
LRL
LRL 98
AF 9
ARL 1L 2L 640 B38 -48
98 KR
KR 108 9
37A/A4

MT35 MT34 MT33 -48
MT33 6 MT34 -48
5 MT33
MT33 ALB
98 ALB L KEY 2 3C
L8TA -48
MT33 ALB1

98 ARL
B38 98 ARL 5 -48

188/D9
B5 DO MKTI 10T 9 98 SK
DH DH
SKAL L KEY 5 6A OR 6C
SKAL 1U 2U 640 B38 -48
SKTK L KEY 4 3B OR 5D
SKTK 1L 2L 640 B38 -48

99 STS SW SECT 2
12 ALL
2 99 STS 1
ZTJ RA 4 3B
68 4 5
ZZG KRA
DO 49 MC15 10T 9 DO
KO KO
TLES TES
7680

5 6 STS5 MT28 TOK STS5 STS -48
4 5 STS4 MT28 TOK STS4 STS5
3 4 STS3 MT28 TOK STS3 STS4
2 3 STS2 MT28 TOK STS2 STS3
1 2 STS1 MT28 TOK STS1 STS2
STG MT28 TOK STS0 STS1
TOK

114 NPC L KEY 2 3C
B32 DO 49 MC15 12T 11 DO NPC
KO KO
TESK NTES
76C6
NPCA -48
NPC KM

SKAL L KEY 2A OR 2C 1
B32 RNGC 98
MT28 MT30 MT20 RNG -48
RNG
DCT1

TRUNK TEST CKT
4WLT
B38 4WLT 4 99
4WL -48

ISSUE 98B

ISSUE		
58D	NLF	
61A		
63D	CP	
64A	CP	
69D	CH	
71D	RJF	
76D		

MASTER TEST CONTROL C ... (2) SD-25800-01-885
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-885

(98) FS 86 (MFR DISC)

STATUS CHECK CONTROL

KRI 108 9 — 75H6 — 88D4 — (98) KSK 7 — SKFD — G1 — G2

SK5 SK4 SK3 SK2 SK1 SKAO SKBO SK 87A3 — SKS 1

SK5 U L 700 B38 -48

6 SKCA

SK4 6 — SK5 11 — SK4 8 — SK4 U L 700 B38 -48

6 SK3 — SK4 11 — SK3 8 — SK3 U L 700 B38 -48

6 SK2 — SK3 11 — SK2 8 — SK2 U L 700 B38 -48

6 SK1 — SK2 11 — SK1 8 — SK1 U L 700 B38 -48

6 SKAO — SK1 11 — SKAO 8 — SKAO U L 700 B38 -48

6 SKBO — SKAO 11 — SKBO 8 — SKBO U L 700 B38 -48

6 SKS — SKBO 11 — SKS 8 — SKS U L 700 B38 -48

KRI 108 9 — 73H6 — SK — (98)

B38 — MC20 1 — SKAL L KEY 3 — 4D OR 48 — SK

KSK L U 700 — B38 -48 — MC20 2

XSK 1L 1U P-8 — 2U 2L B38 -48 S-850 ± 15% — XSKA 8

XSK 8

COMPLETING MKR CKT: TOKA MT30 — NOMG — SKTK LKEY 4 — 5C OR A — SK

4-WIRE LINE LINK CKT: LTMA — SKB LTMA — KSK LTMA

AUX LINE CKT: LTA — SK

4-WIRE TRUNK LINK CKT: KSK TTMA — XSKA TTMA

MULTILEVEL TRUNK CKT: SK — TTMA F SK

B38 XSK 6 — XSKA U L 2.5K B38 -48

B38 KSK 5 — KSKI U L 2.2K B38 -48

XSK

B38 XSKA 4 — C4 OR B29 -48

SKS

B38 SKS 3 — C4 OR B29 -48

DRAWING ISSUE: 58D CMC WMB AM; 60D CMC AM WMB; 61A N.U. B.S.L. Aur

ISSUE 88D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-886

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-886

STABILO

FS 87 (MFR DISC)
TRUNK OR AUX LINE STATUS CONTROL

MULTILEVEL :RK CKT

4-WIRE TL CKT

4-WIRE LL CKT

AUX LINE CKT

COMPL MKR CKT

MTFC CKT

SK5 SK4 SK3 SK2 SK1 SKA0 SKB0

KRI 108 9 — (98) KSK 7 — 75H6 88D4 86A3

KR 9 108 — 37A/A4

SKI-4 — KSKI 11 ON

SKA0

SKB0 — KSKI 9 BYP

SK MBI -48 — MB — SK BYP -48

ON — SK ON -48

BYP — MT32 MT27 — MT34 — LLC LL — OS — LTA — BYP -48

(98) PRO 12

PRO -48 B38 2U 1U 640

(98) TPO — (98) PRO B38 8 — C4 OR B29 -48

(98) TP1 — (EY,ZMQ) PRI B32, B35 (00) 58,8 4,- (98) — C4 OR B29 -48

(98) TP2 — (98) PRE B38 5 — C4 OR B29 -48

(98) LPO — (98) LPO B38 8 — C4 OR B29 -48

(98) LPI — (98) LPI B38 5 — C4 OR B29 -48

(98) LP2 — (98) LP2 B38 8 — C4 OR B29 -48

SKI 5 — FD 1

SK2 7

SKA0 3 — KSKI 7 — PRO 0

SKI,3 7

SKA0 7 — KSKI 5 (98) — PRI 1 — (ZMP) — FD 2 — (98) — FB 9T 8 — (BJ) (BI)

(EY,ZMQ) PRI -48 B24,B32 6B,2U 8T,1U 700,640 — (49) — 6,- 7T,12

SK2,3 5

SKA0 5 — KSKI 3 PRE 2 — FD 3

(98) — PRE -48 B38 2L 1L 640 — 1

KSK 11 LPO 0 — AF 12

LPO -48 B38 2U 1U 640 — 12

KSK 10 LP1 1 — AF 11

LPI -48 B38 2L 1L 640 — 1

KSK 9 LP2 2 — AF 10

LP2 -48 B38 2U 1U 640 — 12

PRL0,1,2 2LV 0 — KTP0-2 -48

PRL0,1,3 2LV 1

PRL0,2,3 2

STPR — KTPR — MT30

PRL0,1,2 0 — KLP0-2 -48

PRL0,1,3 1

PRL0,2,3 2 — SLPR — KLPR — MT32

TLC TL

PO 0 -48 — PI 1 -48 — P2 2 -48

F

AUX LINE CKT

PO 0 -48 — PI 1 -48 — P2 2 -48

DRAWING ISSUE

61A	LEG ASL AND
710	RJF

ISSUE 93A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-887

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-887

HIGGINS 4465 E

(98) FS 88 (MFR DISC)
STATUS CONDITION CHECK

COMPL MKR CKT | MTFC CKT

STL5 STL4 STL3 STL2 STL1 STL0

MC20 SK5 SK4 SK3 SK2 SK1 SKAO SKBO SKO

SK5 825±1% | SK4 825±1% | SK3 825±1% | SK2 825±1% | SK1 825±1% | SKO 825±1%

SKFT SKAL SKFP

KSK1 XTG XPTL SKFP SKCK

SKCK 1U 1L P-1K 2L 2U S-2.7K B38 -48

SKCA U L 270 B38 -48

SK4 SK3 SK2 SK1 SKBO SKAO

SKCK SKFD P-320 S-410

SKFD 86A1 86B0 KRI 10B 9 75H6 KSK G1 G2

SKFD SKF

SKFT SKTK MC20 SKFT P-400 S-400

SKF

XTG1 XLS XAFT

20 98 59E3 4IA/AO

MC20 XTG 1L 2L B38 640 -48

XFT 3B GR D SKTK L KEY

MC20 XPTL 1U 2U B38 640 -48

KR KRI 10B 9 75H6 18B7

NTLS L KEY KSK SO-9 L KEY KPBX SO-9 S SW -48

MTFC CKT

+130 B3 SKF 60.4K±1% SKF2 1K SKF1 .001 SKF1 .1 MEG SKF 2.14-2.18 SKCK SKCA SKCK KSK1 SKS

SKF 1U 1L P-1000 2U 2L B38 -48 S-2760

COMPL MKR CKT

MT30 STSK STSI-4 XFTG STXA TR2D STSK MT30 STS0 STS5 STL1-4

MT32 STK LSB XLSB STXA TR2D STKA MT32 STS0 STS5

MT19 SA- MT22 MT10 SL-

STATUS CONN CKT TGC- LGC-

MULTILEVEL TRK CKT SK MB BYP FT STATUS IN TRK CKT

TL CKT

AUXILIARY LINE CKT STATUS IN AUXILIARY LINE CKT

NGC CKT NO. GR CKT NS PTB SI BYP ON -48

SK1 SK2 SK3 SK4 SK5 SKAO SKBO SKFP SKFT C4 OR B38 -48

SKCK SKFP SKAL L KEY 1 2D OR B

DRAWING ISSUE

58D	SAV
61A	NUC
64A	SSL
70A	5E
75B	

ISSUE 88D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B88

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B88

STABILO

FS 89
DIRECT ACCESS PRETRANSLATOR CONTROL

COMPLETING MARKER CKT

NBS MT36 — CCSA (CO) TS11 12B 11 (CP) (101) → CCSA 8 — CCSA 1U 2U 640 B40 -48

BSN WBC1 MT36 — POTS (CO) TS11 10B 9 (CP) (101) → POTS 5 — POTS 1L 2L 640 B40 -48

TO OTHER MARKERS

(101) → KR (101) KR 6T 5 BI — 6B/E3

(101) → (ZWU)

WB (ZWU) (BK) TS12 6B 5 (ZWU) → DAWB 8 — DAWB 1U 2U 640 B40 -48

MT36

(101) POTS (ZWU) DAWB

839 TCL 190 — CCSA (101) 10 — POTS (101) 3 — (ZWU) (ZWT) (ZWU) (101)

(AD) TCLA L KEY 2 3D — (AD) (AC) → TCA

(AD) TCLP L KEY 1 2 3C

(AD) TCLB L KEY 1 2 3C — (AD) (AC) → TCB

(101) TCLC 8 — (AD) (AC) 4 5 6D — (AD) (AC) → TCC

TCLC L KEY

(101) CCSA — 839 (101) CCSA 12 B40 OR C3 -48

(101) POTS — 839 (101) POTS 1 B40 OR C3 -48

DAP 7 — (AD) (DG) LTI 12 13T — (AD) → DAPI U L B40 700 -48

12 DA (AD) (LQ) TMI 4 3B 87 — 74E3

(ZWU) DAWB — 839 (ZWU) DAWB 12 B40 OR C3 -48

TCLC 3 — (101) CCSA 9 DAC* — (101) (CP) (CO) TS11 7 8B CA2

CB2

TCLC 3 — CB0 — MT36 — PS1 MCA-A -48 — PS2 MCA-B -48

TCLC 1 — DAC 1 — (101) (CP) (CO) TS11 3 4B CA0 — MT36

TRUNK TEST CKT

PREFERENCE CONTROL CKT 0 — MP- — MP-

839 DAPI 4 (AD) ESS

DAPA L KEY 2 1 3A — DAPB L KEY 2 3B TB -48 — TB

TA -48 — TA

DAPA L KEY 5 4 6D — DAPB L KEY 5 6C TB — TA — TO DIRECT ACCESS PRETRANSLATOR CONNECTOR CKT 2

DAPA L KEY 2 1 3D — DAPB L KEY 2 3C TB — TA — TO DIRECT ACCESS PRETRANSLATOR CONNECTOR CKT 1

-48 B40 DAC L U 700 (101) (CP) (CO) TS11 1 2B DAC

TO OTHER MARKERS

MT36 NBS — MT36 BSN

DS0-9 — ASSOC WITH DIRECT ACCESS PRETRANSLATOR CONNECTOR CKT 1 — CA1 — CB1

ASSOC WITH DIRECT ACCESS PRETRANSLATOR CONNECTOR CKT 2

TO OTHER DIRECT ACCESS PRETRANSLATOR CONNECTOR CIRCUITS — PSI TA — PS2 TB

DIRECT ACCESS PRETRANSLATOR CONNECTOR CKT 0

MC--A / MC--B (×8) → TO DIRECT ACCESS PRETRANSLATOR CKT B

DIRECT ACCESS PRETRANSLATOR CKT "A"

CCSA — POTS — TCA — TCB — TCC — STA-

DRAWING ISSUE

60D	AMD AJL AMD
62D	DX AJL AJN
69D	CH
71D	RJF
74A	

74

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-889

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-25800-01-889

KIMBERLY

FS 90
ACCESS GROUP CONTROL TEST

ACCESS GROUP CONTROL CKT

(ZSV,ZSW) AGC SW SECT 2
0 TO (105) TO ACS GR CONT CKT 0
1-3 2-4 TI-3 TO (105) ACS GR CONT CKT 1-3
4 5 T4 TO (105) ACS GR CONT CKT 4
5-9 6-10 T5-9 TO (105) ACS GR CONT CKT 5-9
(ZSW)

AGC L KEY B18 2 3D 12 ALL

T- T TK -48

TK T MTFT -48
MTFA -48

MTFT AGC -48
Z1,2,4,8, 16,32,64 MTFT Z1,2,4,8,16,32,64 -48
INH MTFT INH -48
ALM MTFT ALM -48
ALA
TO OTHER ACS GR CONT CIRCUITS

(105) AGC -48
(105) Z1,2,4,8, 16,32,64 -48
(105) INH -48
(105) ALM -48
(ZST) ADD -48
(151) ADD 0-9 -48

SUB NL KEY B18 30 1 (105) SUB MTFT S -48
SUBTRACT TIMER

A -48

(ZSW) AGC L KEY B18 5 6D (ZSU) (151) AGA,B U L B80 2500 48
(ZSW) AGCM L KEY B18 5 6C

(151) AGC U L B80 700 -48

(XH) TS B2 10B 9 (CU) (105) INH L KEY 2 3C 1 INHC MTFT ALM INH -48
B
TO OTHER ACS GR CONT CIRCUITS

COMPL MKR CKT

OACO-9 TACO-9 MT37
ARTO-9 ARTC ARTO-9 -48
INH -48
TO OTHER COMPL MKR CIRCUITS

ALM -48
ALM
AR
TK A
AGCK (104)

ADD (CO) TSII 3 4T (ZSY) (ZST) ADD 6 U L B44 700 -48
ADD
(ZST)
(151)
(105) KR
(105) 6T 5 KR 68/E3 81

ADD 0,2,4,6,8 0,2,4,6,8 8 1U 2U B80 640 -48
ADD 1,3,5,7,9 1,3,5,7,9 5 1L 2L B80 640 -48

(ZSW) AGC SW SECT 3 B18 12 ALL 0-9 1-10 (151) AGB 1-10
ALL EXCEPT SELECTED
(152) AGCM 0-11 1-10 (ZSU) ART 0-9
(152) AGCM 0-11 11 (ZSU) ARTC B64

OACO-9 TACO-9 FLGA
MCBI MT38 ARTC -48
PEGI
INH

B43 ADD 8 (ZST) (CU) (CO) TSII 2T 1 AGCK
(151)
B64 ADDO-9 10,3
MT37 AGCK -48
TO OTHER COMPL MKR CIRCUITS

ADD 0-9 (151) AGC 1-10

DRAWING ISSUE
620 NJC ACS # GR
650 WM JC 2WD
66A WM JC 4WD MKR
68A
74A
78D
82D
83A

SD-25800-01-B90

83

MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
SD-25800-01-B90
65

HIGGINS 4465 K&E

FS 92
PBX BLOCK SELECT
HUNTING GROUP CONTROL

DRAWING ISSUE	
61A	CR ALL AND
630	MS AM AD AP
670	AP
760	

COMPL MKR CKT
NO. GR CONN CKT
NO. GR CKT
FIRST TENS BLOCK
REGULAR BLOCK SELECTION
LAST TENS BLOCK
INTER TENS BLOCK
SECOND TENS BLOCK
MULTILEVEL AUX LINE BLOCK SELECTION
LAST TENS BLOCK
INTER TENS BLOCK
SECOND TENS BLOCK
NGB
A
PBX2 SLCK
SCR
LLI
EG
POF
AF
MT-
MC-
SC-
LA
TSC
TST 0-9
HUNDREDS BLOCK ARRANGED FOR BLOCK SELECTION
TENS BLOCK WITH (PTB-) REL
TO ALL OTHER NO. GROUPS ARRANGED FOR BLOCK SELECTION
TB00-09
TB10-89
TB90-99
TST0
TST1-8
TST9
TB00
TB01-08
TB09
TB10
TB11-18
TB19
TB880
TB881-888
TB889
TB90
TB91-98
TB99
TBT0
TBT1-8
TBT9
ALL POSITIONS EXCEPT
TBU SW SECT 3
TBT SW SECT 3
ALL
NGBS L KEY
TBU SW (OFF NORMAL)
TBT SW (OFF NORMAL)
MC 12T
NG2S L KEY
TS
11G2
108/A7
B60
B59
B51-56
700
1625
900

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B91

BELL TELEPHONE LABORATORIES INCORPORATED 65

HIGGINS 4465 K&E

FS 93
GLARE DETECTION

DRAWING ISSUE	
630	CF CDB LMD
66A	I.B. AJC AHD
68A	SMK
70A	KB
760	
800	

TIME DELAY CONTROL CKT
GLT

CR2 R5 R1 Q2 Q1 R2 R3 C1 R4 CR1 CP

GLTA 10 GLT 6 1 1170 B44

TSE 3 10
TSEA 4
B44 GLTA 12 GL 0.27-0.29
GLMN L KEY 2 3A
GLMN POT. 100K 1 2 3 CW
GLMX POT. 100K 1 2 3 CW
GL 352K ±1%
GLI 150K ±1%
TSEA 1 B45 -48

P.11 GLT 8 9 GLTA 10 2U 640 B45 -48 8
B44 TSE 8 9 TSEA 1L 2L 640 B45 -48 5

ZZX 11 MC7 12T B15
ZZX 6 TKT2 7T B6

COMPL MKR CKT
TSEI
MTFC CKT
UX 41A/B3
TSE GLMN L KEY 2 3D GLMX L KEY 2 3C ZQO GLIM L KEY 2 3C
ZZX MC5 4B 3 ZZX TSE 6 1170 B43 -48

ZQO GLIM L KEY 2 3B
GLT 3 10 TSEA 3 E
GLTA 11
TSEA 2 GL
KR 8T KR B1
41A/A3

TRUNK CKT
TT E -48
TRUNK LINK CKT
TTM
TRUNK TEST CKT
E-M
ANS
GL -48

80

MASTER TEST CONTROL CIRCUIT
2
SD-25800-01-B92
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-B92

AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT

CDPO, 1,2,4, 7,10,15 -48

COMPLETING MARKER CKT

MTFC CKT

CDO, 1,2,4, 7,10,15 -48

CDAO, 1, 2,4,7 -48

CDAO, 1,2,4, 7 -48

DRAWING ISSUE

630 TEM AB AM

66A WM AB AM

CDPO,1,2,4,7,10,15

CDO,1,2,4,7,10,15

CDAO,1,2,4,7

AO 4WM L KEY U L 839 -48 700

AO 4WM U L 839 -48 700

XI IR 4WIR

AR

B32

AN DO

AN 95,96

AN OC 96

112 KPD

H2 KPD

112 KPDI

8482

8484,85

8487

FS 94 (MFR DISC.)
CALL PRIVILEGE CONTROL DIGITS

112 APU/CDPU SW SECT 1 NBRDG

112 BPU/CDU SW SECT 1 NBRDG

112 CPU/CDA SW SECT 1 NBRDG

SECT 3 NBRDG

SECT 4 NBRDG

SECT 5 NBRDG

112 CPTI L KEY

112 CDTI L KEY

B42

ISSUE 88D

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-893

SD-25800-01-893

FS 103
RANGE EXTENSION CONTROL

RE L KEY 2 3A — B42 — (109) — MISC 11 12B — (109) — REX U L 700 — B44 -48
NTRE L KEY 2 3C — B42

REX 6 — MC4 4T 3 — (ZNK) — NTRE
26A/C4

B42 — (ZXO) TSI3 2T 1 — (ZXQ) — (ZNK) — (109) — NTRE L KEY 2 3B — NTRE U L 700 — B44 -48
(ZXP)

B43 — (109) LOLP 4 — (DG) LTI 10 11T — (BY) — LOLL

B43 — (109) LOL 8 — (BK) TSI2 108 9 — (BY) — LOLL

(109) LOLL L KEY 3D 2
(109) LOLL L KEY 3A 2 1 — (109) NOL 5 — (BK) TSI2 88 7 — (BY) — NOLL
(109) NOLL L KEY 1 2 3A
(109) NOLL L KEY 30 2 — (109) 843

(109) NLL L KEY 1 2C — (109) LOL 2U IU 3 — B44 -48 — 640 — SH 5B 4 — LVI — 12T — (BK) TSI2 11
(109) NLL L KEY 1 2B — (109) NOL 2L IL 7 — B44 -48 — 640 — SH 9T 8 — LVI — 12B — (BK) TSI2 11

(BY) NOL
(BY) LOL

MTF VOLTMETER TEST CKT
LOLP -48

MTFC CKT

DT OR COMPL MKR CKT
LOLA -48

NOLA -48

LINE, LINE LINK & CONN CKT
MC- NOLL
MC- LOLL
MT-
MT-

MTFC CKT

COMPL MKR CKT
LOLP -48
LOLD LOLA
-48

B1 KR 3 4T — LOLP — (BY) — 12
6A/E0

(109) LOLP L U 700 — -48 B44 — (DG) LTI 8 9B — MC2 1 2T — (BY) — LOLP
(109) NLP L KEY 2B 1 — NT L KEY 2B 1 — NH L KEY 2A 1 — NN L KEY 2B 1

TRUNK TEST CKT
REX -48

NOLL L KEY 50 4 — REX 2 — (109) — REX
B42

B43 — (109) LOLP 2 — (109) LOLP — C3 OR B19 -48

DRAWING ISSUE
64A	G.E.
67D	DK
74A	
77A	
79A	

ISSUE 91A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B94
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B94

FS 104A

TRUNK TEST CIRCUIT CONNECTIONS

TRUNK TEST CKT

BI KR 3 48 — 133 LLS 1 — STL — ST — ST — -48

5B,48 YR,YS NI 4,3 — 3B/A3 LLS — STG

RJ UJ TKT 6 7T — 49 — 4W 11 12T — 4W — ITRA JK — 4W — -48

14S CHT 6

146 CWI 9

TKTI 4T 3

AD DAPI 11

41 CAMS VZ 5 6T VZ

TZ SDRA 3 4T — 137 AILT 12 — ZVB ZVB

ZLA KRI 42A/A7

49

7 31 ORT 8B

RJ

ZZR,ZZS AN L KEY EL 2 1 30

31 ORT 108 9 — ORT — ORT — -48

6 120 ACDT

IF

IG

SRTI 7B 6 — EL — EK

ZZV — ZZW — ZZW

IF — IG — 5 — 86 DTR — TRTT — TRTT — -48

LO 48A/D6

STG 48B/E8

10 ACDT 95B/G0

120 ACDT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B95A

DRAWING ISSUE 95A

780 800

SD-25800-01-B95B

FS 104B

TRUNK TEST CIRCUIT CONNECTIONS

TRUNK TEST CKT

95A/D6 ACDT — ZZW

B5 — TZ SDRA 2T 1 — 137 AILT 11 — ZVB — AIS — AIS -48

41 CAMI L KEY 1 2B

OGT 108 9 — OGT — OGT -48

ZQL — IAO 108 9 — IAO

ZUK — ZUJ CATN L KEY 4 5B — CATN

ZQL — MISC 108 9 — MISC

ZWN — 135 WB 7 — ZWN — ZPL — ZWN — WBTI — WBTI -48

ZPI BSTK 8 — ZPI BSNT 1 — BST — BST -48

VZ — 41 IMT 108 9 — VZ — VZ

ITNP 5T 4 — IF — ITNP — ITNP -48

IG — IG

86 LLAT L KEY 2 1 — 3B — IG

ITDO 108 9 — ITDO — ITDO -48

GJ

ATNT 10 — 56 — ATNT — ATNI -48

B3 TG L KEY 2B 1 — ZQV — TKTI 6B 5 — 56 — ITP 108 9 — ZO — ITP

ZQU — B6

NA AIS L KEY 2 3A — AISO — AIS1

NA AIS L KEY 5 6A — AIS2 — AIS3

NF

B46 — ZVG MC22 7 — ZUR — STT

B5 — OR 7B 6 — 120 — ACD — ACDT 1 — 120 — ACD — ACD -48

65B/E3

LQ TMI — -48 B4 108 10T 1500 — TMI — TMI

ZRB TM2 — -48 B81 L U 2500

QJ REP L KEY 5 6A — B18 — RTM — ZQM

NA AIS L KEY 3D 2 — B12 — ZJI — ZJI — ZJD AICT IL 2L 640 — B83 -48

NA DL4 L KEY 3C 2

MASTER TEST CONTROL CIR

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

2

SD-25800-01-B95B

DRAWING ISSUE 99A

DRAWING ISSUE: 78D 79A 80D 82D

SD-25800-01-B96

FS 105

REGISTER GROUP (ROUTE) SELECTION

LINE LINK MARKER CONNECTOR CKT

MARKER CKT (A) DT MARKER (B) COMPL. MARKER (C) ACD MARKER

MTFC CKT

48/B0

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B96

ISSUE 103A

FS 106

TRAFFIC SAMPLING BY SELECTED TRUNK GROUP

FS 79

TRAFFIC SAMPLING BY CUSTOMER GROUP

FIRST COMPLETING MARKER CKT

INTERMEDIATE COMPLETING MARKER CKT

LAST COMPLETING MARKER CKT

TRAFFIC SAMPLE TEST CKT

TRUNK GROUP TRAFFIC SAMPLE CKT

COMPLETING MARKER CKT

MTFC CKT

TRANSVERTER CKT

TRAFFIC SAMPLE CKT

COMPLETING MARKER CKT

TO OTHER COMPLETING MARKERS

DRAWING ISSUE	
67D	GP
68A	DP
69D	LFP
70A	LFP
71D	RJF
75B	
79A	
82D	
83A	

ISSUE 99A

MASTER TEST CONTROL CIRC (2)

SD-25800-01-897

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-897

SD-25800-01-B98

FS 108

MAGNETIC TAPE RECORDING
CHANNEL SELECTION

RECORDEDER AND RECORDER CONTROL CKT (MAG TAPE RCDG)

TRUNK CONTROL CKT (MAG TAPE RCDG)

TRANSVERTER CKT (MAG TAPE RCDG)

TRANSVERTER CKT (MAG TAPE RCDG)

ELECTRONIC START

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

65 (2)

SD-25800-01-B98

99A ISSUE

FS 109

MAGNETIC TAPE RECORDING
TRANSVERTER AND TRUNK CONTROL TEST

TRANSVERTER CKT (MAG TAPE RCDG)

TRUNK CONTROL CKT (MAG TAPE RCDG)

TO RECORDER AND RECORDER CONTROL CKT (MAG TAPE RCDG)

RECORDER AND RECORDER CONTROL CKT (MAG TAPE RCDG)

MASTER TIMER CKT (MAG TAPE RCDG)

TRUNK CONTROL CKT OR TRANSVERTER CKT (MAG TAPE RCDG)

DRAWING ISSUE

67D	CB
78D	CB
80D	CB
82D	CB
83A	CB

ISSUE 93A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-B99

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-B99

FS 110

MAGNETIC TAPE RECORDING
TRANSVERTER RAIL CONTROL

DRAWING ISSUE	ADDS 41 LK
67D	
78D	
80D	

TRANSVERTER CKT (MAG TAPE RCDG)

LI TVT- DRI
L2 TVT- DR2 TTV 870
LIA TVT- LI 15 11 863 -48 2170
L2A TVT- L2 25 21 863 -48 2170

MTFC CKT

ARIA R1A TTV 12 DRI 4 AR 35 31 863 -48 2170
AR2A R2A DR2 4
AR3A R3A
BRIA R1B TTV 11 DRI 3 BR 45 41 863 -48 2170
BR2A R2B DR2 3
BR3A R3B
CRIA R1C TTV 10 DRI 2 CR 55 51 863 -48 2170
CR2A R2C DR2 2
CR3A R3C
DRIA R1D TTV 9 DR1 U L 863 -48 700
DR2A R2D TTV 8 DR2 U L 863 -48 700

DATA LEADS

RECORDER AND RECORDER CONTROL CKT (MAG TAPE RCDG)

-48 B66 RALI 226
-48 B66 RAL2 226

(128) RALO L KEY
DRI (127) 6 2A 1 (127) LI 12 13
DR2 6
DRIA 11 L2 22 23
DR2A 2
TCT 4
(128) TBL L KEY 2 3C

AR 33 32 A
BR 43 42 B
CR 53 52 C D

RECORDER AND RECORDER CONTROL CKT (MAG TAPE RCDG)

TRANSVERTER CKT (MAG TAPE RCDG)

(A-D)RI
(A-D)RIA -48
(A-D)R2
(A-D)R2A -48
(A-C)R3
(A-C)R3A -48
BLD BLD -48
BLD

(128) RALI L KEY (127) DRI 851 28 1 9 (127) DR1A IU 2U 863 -48 640
(128) RAL2 L KEY (127) DR2 851 2A 1 9 (127) DR2A IL 2L 863 -48 640

80

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B100

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B100

SD-25800-01-B101

(128) FS III

MAGNETIC TAPE RECORDING
TRUNK NUMBER AND TIME ENTRY

TRANSVERTER CKT (MAG TAPE RCDG)

RECORDER AND RECORDER CONTROL CKT (MAG TAPE RCDG)

MTFC CKT

TNT
SW
SECT 3
NBRDG

1,2,4,7 2,3,5,8 0
3,5,8 4,6,9 1
6,9 7,10 2
0 1 4

B52 11 ALL

SECT 4
NBRDG

1 2
2,3 3,4
4-6 5-7
7-9,0 8-10,1 7

B52 11 ALL

TNTOJ,2,4,7

TNTOJ,2,4,7
TNUOJ,2,4,7

R-

TC-

TCIA

TN

TRUNK CONTROL
(MAG TAPE RCDG)

MASTER TIMER CKT

TNU
SW
SECT 3
NBRDG

1,2,4,7 2,3,5,8 0
3,5,8 4,6,9 1
6,9 7,10 2
0 1 4

B52 11 ALL

SECT 4
NBRDG

1 2
2,3 3,4
4-6 5-7
7-9,0 8-10,1 7

B52 11 ALL

TNUO,1,2,4,7

TNT
SW
SECT 2
NBRDG

7 8 0
8 9 1
6,9 7,10 2

B52 11 ALL

SECT 1
NBRDG

6 7 4
7-9 8-10 7

B52 11 ALL

TO,1,2,4,7

TO,1,2,4,7
UO,1,2,4,7

(0-2) TCI

TNU
SECT 2
NBRDG

7 8 0
8 9 1
6,9 7,10 2

B52 11 ALL

SECT 1
NBRDG

6 7 4
7-9 8-10 7

B52 11 ALL

UO,1,2,4,7

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

(2)

SD-25800-01-B101

ISSUE 85A

DRAWING ISSUE 670 2 800

FS 112

MAGNETIC TAPE RECORDING
TRUNK CONTROL CKT SEIZURE
AND TRANSFER

TABLE A

LEAD	CONTACTS (a)	(b)	LEAD	CONTACTS (c)	(d)
1	10T	9	12	12T	11
2	8T	7	13	10T	9
3	6T	5	14	8T	7
4	4T	3	15	6T	5
5	2T	1	16	4T	3
6	2B	1	17	2T	1
7	4B	3	18	2B	1
8	6B	5			
9	8B	7			
10	10B	9			
11	12B	11			

DRAWING ISSUE	FEC SER
67D	
78D	
80D	
82D	
83A	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-B102

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 6S

SD-25800-01-BK03

FS 113

MAGNETIC TAPE RECORDING
TRUNK CONTROL TEST CONNECTION

TRANSVERTER CKT (MAG TAPE RCDG)

TRUNK CONTROL CKT (MAG TAPE RCDG)

TRANSVERTER CONNECTOR CKT

CALL IDENTITY INDEXER CKT

SENDER CKT

TRUNK CKT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S (2)

SD-25800-01-BK03

ISSUE 89A

FS 114

MAGNETIC TAPE RECORDING
SIMULATED TRUNK OPERATION

TRUNK CONTROL CKT (MAG TAPE RCDG)

TRANSVERTER CKT (MAG TAPE RCDG)

MRL 5881 2B 1 (127) MRL

(128) ANSE L KEY 2 3D (127) MA 5

(128) RECE L KEY 2 3D (127) LCP 7

(128) ANSE L KEY 1 2 3A (127) TTC 10 (128) ANSE L KEY 5 4 6A (127) IEC U L B64 700 -48 12

(128) DISE L KEY 1 2 3B (127) DISC 8 (127) MA U L 2500 10

(127) TCT 7 TCT 8 (127) (128) DISE L KEY 5 6B (127) AEC 10 DISC 5 DISC U L B64 700 -48 12

TCT 9 TNTA 9 MA 8 TTC 3 AEC U L B64 700 -48 12

AEC 3 DEC U L B64 700 -48 12

B46 (ZZK) KR3 2 (127) KR 42B/E3 KR 102C0

-48 B64 500 300 MA TTC L U 500 TTC (127) 8 (128) TKK L KEY 1 2 3D OR 3B TC

B53 TTC 5 6 MA TTC 4

MA 12 2 DISC

(127) TC 2000 RC

B53 TMCK 5 TCTK 10 (127) 1 2 3A XTC (128) XTC L KEY

XTC TC- -48

TC- IR TKK -48

TCI TV DTK IPA DS RD

TCI- TV RCK -48

XTC -48

TCI- -48

-48 B64 OT 1700 ±1% DISC 10 B53 MA 4 (127) OT

TCIA DS OTK OTO -48

DRAWING ISSUE

67D	ACC CAC
78D	
80D	
83A	

ISSUE 86D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B104

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B104

FS 115 (MFR DISC)
WIDEBAND TEST

74E3 | 44A/A2 | 48/CO | 29CI | 106D3 | 107D5

WBH — WBT5 — WBH — BSC L KEY — BSMT — ZWN — ZPI — WBT6 — WCST — WB — WBT — WMT — MKTI — LV — WLV — WBT — WB — WRS — WBLC — WMTI — WMT — WLV — WLVI — WROL — WTLHI — WRTL — WTLH2 — WBT8 — BSTK — BSNT — WBNT — TKT3A — WTI — WTLHI — WRORL — ZUA N2 — WT2 — WFLG — RWL — WLXP — WRS2 — WRSI — WL00-39 — WRSK — P-220 — S-1150 — KR3 — TAN — FC — WTLH1 — WTLH2 — T1 — T2 — A — TST

ACCESS TEST LINE CKT

(A) ASSOC WITH 1ST WB REM SW IN SAME WB LINE LINK

(A) ASSOC WITH 2ND WB REM SW IN SAME WB LINE LINK

(A) ASSOC WITH 3RD WB REM SW IN SAME WB LINE LINK

REMOTE SWITCH SIGNAL CONTROL CKT

(B) ASSOC WITH 1ST WB REM SW IN SAME WB LINE LINK

(B) ASSOC WITH 2ND WB REM SW IN SAME WB LINE LINK

(B) ASSOC WITH 3RD WB REM SW IN SAME WB LINE LINK

DRAWING ISSUE: 71D, 74A, 76D, 81A, 82D, 83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-B105

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-25800-01-B105

FS 116 (MFR DISC)

WIDEBAND CONTROL

COMPLETING MARKER CKT

MTFC CKT

RWL — (135) WBT4 3 — RWL — (135) RWL U L B72 700 -48

FLG -48

B — FLG — (135) WBT4 2 — (135) WFLG IU 2U B72 640 -48

C — LXPA — (135) WBT5 12 — LXPA — (135) WLXP 1L 2L B72 640 -48

D — WHSI — (135) WBTI 10 — WHSI — (135) WHS U L B68 700 -48

WTK

E — VWC — WTK — (135) WBTI 8 — (135) WTK U L B68 700 -48

(135) WFB 6 — (135) WFA 5

KR 105C4, 112G5, 113C0, 114D6

(ZWN) — ZZK — 5 KR3 — (ZWN) — B56

(134) WHS — B56 (135) WHS 7 -48

(134) WTK — B56 (135) WTK 7 -48

F — WIDEBAND/BIT-STREAM TEST LINE DISTRIBUTOR

(134) OTL — OTL- — OTL -48

G — (134) TTI — TTI- — TTI -48

(134) TTO — TTO- — TTO -48

H

B56 (135) WFA 8 — (134) IAOB L KEY 2 1 38 — (134) IAOF L KEY 1 2 3A — (135) WFB 8 — ALL

B59 (135) JSFI 10 — (135) JSF 10 — 12 ALL

SECT. 4 NBRDG 0-9 1-10

(134) RVT L KEY 2 3A — B54/DI — (135) WBTI 9 — RVT — MT43 — RVT -48

(134) VLO L KEY 2 3A — B54/DI — (135) WBTI 7 — VLO — MT43 — VLO -48

(134) WRLO L KEY 2 3A — B54/DI — (135) WBTI 6 — WRLO — MT46 — WIDEBAND LINE LINK CKT — WIDEBAND LINK CKT MT1 -48

(134) WCO L KEY 2 3A — B54/DI — (135) WBTI 5 — WCO — MT45 — MT2 -48

(134) WCH SW SECT. 3 NBRDG — ALL EXCEPT SELECTED POSITION — 0-9 1-10 — (135) WBT2 1-10 — S80-9 — MT45 — WCTO-9

COMPLETING MARKER CKT

B56 (135) WFB U L 700 — (135) WBTI 3 — FB — MT49 — ITR3 — DCTA — LSW — R -48

(135) WFA U L 700 — (135) WBTI 2 — FA — MT49 — SCB3 — ITR3

(ZWN) — ZX0 TSI3 3 4T — WBI — MT54 — WBA -48

28,2T 1,1 — XG,XH — TS

(134) WBTI L KEY 2 1 3C — WB2 — MT54

WB3 — MT54

NUMBER GROUP CONN CKT

NUMBER GROUP CKT

NWB -48 WB -48

DRAWING ISSUE

71D	OR KUF
74A	
77A	
79A	
82B	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-8106

BELL TELEPHONE LABORATORIES INCORPORATED

PRICE 6S

SD-25800-01-8106

SD-25800-01-B107A

FS 117A (MFR DISC)

WIDEBAND MARKER CONTROL

COMPLETING MARKER CKT

MTFC CKT

COMPLETING MARKER CKT

RUKI

WDCI

JSSF

WTC MT47 -48

LFK MT47

WLA WCHA MT47 -48

LWL

WLC MT47 -48

WLC FTKI MT47 -48

RUKI WBT4 11 (135) RUKI U L 700 B69 -48

CK CKI (135) WBT4 9 WCK 6 WCK U L 700 B69 -48

(135) WBT4 7 (135) WDCI U L 700 B69 -48

9 (ZPM) TKT3A 10 B38

JSSF (135) JSF 2 JSFI 6 JSFI U L 700 B69 -48

WTLC (135) WTL L U 700 B58

(135) WLK U L 700 B69 -48

(135) JSFI 8 (135) JSF 8

(134) JSF L KEY 2 1 (135) WCHA L U 700 B58

WCHA

38

(135) 4 JSFI JSF 11 JSF IL IU P-700 B58

-48 B69 2L 2U S-700

12 JSF

WLL (135) WLV 9

2 JSFI

B57 (ZWN) (ZZK) KR3 6 (ZWN) 8 107B/B2

(135)

KR 105E8, 10888

WBTK 9 (135) WBTK 1U 2U 640 B72 -48 (ZSE)

(ZSD) SWAT -48 B72 L U 700 6 (ZSD) SWAT

(135) WBT8 10 SWAT

WLV 3

(134) WBT2 L KEY (134) WBT1 L KEY (134) WBT0 L KEY

VF (135) WMT 7 WLK 8

(135) (ZPI) BSMT 10

(ZPI) LSS IL 2L 640 B84 -48

(135) WMT 9

WLV 12

B57 (135) WMT 11 WTL 11 WCK 11

WM R -48 B70

WRS WTK RWL WRT 1 WMT 2 RUK

2 WRS (135)

RUKI 1

(134) IAOF L KEY 2 1 30 (135) WFA

(134) 2 IAOB L KEY 30 (135) WFB

(135) WMT 1 WLK 1 LLN

113H4 BM

(134) WCK B57 (135) WCK 3 -48

(134) JSFI B57 (135) JSFI 12 -48

(ZSC) SWAT B57 (ZSD) SWAT 3 -48

B57 (135) WCHA 7 WCK MT47 WCK -48

(135) JSF 4 SFNK MT47 LSW SFNK -48

(134) IAOB L KEY 5 4 RLN

68 (135) WFA

(134) 4 IAOF 5 L KEY 6A (135) WFB

(135) WRS 13 WLK 11 WMT 10

300 ±1% TSK B58 300 ±1%

WLV 1 WMT 3

WFA 10 WFAK 8 TSK

WFB 10 WFBK 5 WLL1

MT48 WLCI RWL XRSC -48

MT47 WTC TSK XTC -48

MT- MA WIDEBAND LINE LINK CONNECTOR MCI LINE LINK CONNECTOR

MTFC CKT

SWAT -48

NWT -48

WBTO-2 -48

WLFK -48

WTFK -48

WTL WCK WTFK

WFA 12 VTS 12 WFAK 9

WHS 9 WDCI 10 WFBK 4

WMT1 9 MT MT53 -48

88/B5

WRS WTK RWL WRT WMT RUK MT48 WLCI RUK

RUKI

WMT MMK MT48 MMK

WMT WLK LLN MT48 LWL

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

65 (2)

SD-25800-01-B107A

ISSUE 1028

63A 62D 81A 74A 73D 71A 71D ISSUE

SD-25800-01-BK07B

FS 117B (MFR DISC)

MARKER CONTROL FOR BIT-STREAM SWITCHING OPERATION

BIT-STREAM LINK

LS- C- -48 C- J- HON

WIDEBAND LINE LINK CONNECTOR

MARKER CKT

XLLC -48 WTGO-3

WCGK

LLCK -48

BSL WTK JXWI

MTFC CKT

WTGO-3 -48

WIDEBAND TRUNK LINK CONNECTOR M- T-

XLSS LSK -48 R

WIDEBAND LINE LINK CONNECTOR M- L-

(ZPI) WTG SW SECT 1 LLCO-3 1-4 0-3 (ZPK) ALL 12

(135) WBT 7

(ZPI) XLLC L KEY 2 1 3A

(135) WCHA 1

(ZPI) BSC 1L 2L 640 B84 -48

(ZPI) BSC 1 (ZPK)

(ZWN) B

(ZZK) KR3 6 B57

107A/F5

(ZPI) WTG SW SECT 2 WTGO-3 1-4 0-3 (ZPK) ALL 12

(135) WFAK 12 B57

(135) WFBK 1

LSK1 (ZPI)

(135) LSS 1

38 2 1

(134) XLSS L KEY

(135) LSK 300 B69

B54/D1

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 6S

(2) SD-25800-01-BK07B

ISSUE 102B

DRAWING ISSUE 62D

SD-25800-01-B108

FS 118 (MFR DISC)
WIDEBAND MARKER TEST

COMPLETING MARKER CKT

WIDEBAND LINE LINK CONNECTOR

WIDEBAND TRUNK LINK CONNECTOR

(134) NWL L KEY 1 2 3A
(134) IAOB L KEY 4 5 6C
(134) IAOF L KEY 4 5 6D
(135) WFB 9
(135) WFA 9
(135) WFA 2
(135) WFB 2
1 2 3D NWL → MT48
(134) NWL L KEY
(134) WMB L KEY 1 2 3B WMB → MT48
(135) WMB 11
(135) WRT U L B69 700 -48 RWL 4
(134) WMB
B57 (135) WMB 8 -48
(135) WMB B57 1U 2U 100
(135) WLK 4 WLH → MT48
(135) MBC 3
(135) WMB 12
(134) VLK L KEY 5C 4
ZWN ZZK KR3 ZWN 8
(134) VLB NL KEY (135) WMB 2C 1 10
(134) VLR NL KEY 1 2D
(135) VLSI 500 ±.5% 1000 ±.5% B4 +130
(135) VLS2 500 ±.5% 1000 ±.5% B4 +130
(135) VLR 1150±1% 1150 ±1% B72 -48
(134) WRL SW SECT.2 NBRDG
ALL EXCEPT SELECTED POSTION
B56 (135) WRS 9 11 ALL 0-9 1-10
SECT.5 NBRDG
11 WHMO RWL 7
WMT 8
WBT3 11 (135) 12 ALL 0-9 1-10
(135) WBT3 1-10 PL0-9 → MT46
SECT.4 NBRDG
WRS 7 WLVK 1 WLVF 1 (135) 12 ALL 0-9 1-10 RA0-9 → MT50 R0-9
WLHI 1U 2U 640 WLH2 1L 2L B69 640 -48
(135) 52A/F4 WLHM ZWN
(134) XWLH L KEY 2 38
(134) FWDC L KEY 2 3A (135) WBT5 4 FWDC 30 WDC0 WDC1 WDC2 WLHI 12 B57
(135) 11 LXW
B57 (135) WLH2 5 (135) LXW 1U 2U B74 640 -48
8 WJHI
WJHI 1U 2U 640 WJH2 1L 2L B69 640 -48
B57 (135) WJH2 5 (135) JXW 1L 2L B74 640 -48
A MT48 WCHA WCH- A0-9
5 JXW
(135) ZWN WLLJ 52A/E4
8 WTHI
WTHI 1U 2U 640 WTH2 1L 2L B69 640 -48
5 WTH2
(135) ZWN WTLH 52A/C4
B MT48 WCHA WCH- B0-9
4 IAOB
WBLK 1
WFB 6
WFA 6
WDCI 12 B57
SLT → MT48
LSW
WHMS
WLVF 2
WLVK 2
WHMO 1
B57 (135) WDCI 11 WLHI 10 WJHI 10 WTHI 10 WFA 4 WFB 3
IAOF U L B69 700 -48
6 KR
(135) ZWN ZZK KR3 6 ZWN B57
107D5
(134) TAOF B57 (135) IAOF 10 -48
(134) IAOB B57 (135) IAOB 10 -48
(134) WBLK B57 (135) WBLK 10 -48
WFB 4
IAOB U L B69 700 -48
6
9 IAOF
WBLK U L B69 700 -48
6

MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
65 (2)
SD-25800-01-B108
ISSUE 102B

DRAWING ISSUE: 83A 82D 81A 79A 77A 74D 71D 68E

FS 119 (MFR DISC)
OSCILLATOR PAD CONTROL FOR WIDEBAND CONTINUITY TEST

MARKER CKT

WIDEBAND CONTINUITY TEST CKT

DRAWING ISSUE
71D
77A
82D
83A

(134) CWCN L KEY — B54/DI — 2D 1
(135) VTS 8
ICTF L KEY 2 1 3A
ICNK 4
WTKB 9
WLB 9
WMTI 4 — PC1 — MT- — C — -48
2CTF L KEY 6C 5 4
WTKB 8
WMTI 3 — PC2 — MT- — D — -48
ICNK 2
WTKB 6
ICTF L KEY 5 6A
2CTF L KEY 6B 4 5
WMTI 2 — PC3 — MT- — B — -48
LB
WLB 8
WMTI 1 — PC4 — MT- — A — -48
WBLC 4
WBLC 5
ICTF L KEY 2 3D
B59 ULP 1
ULF 1
SLFK 9
LWLP 3
SLFK 10
CSTK 7
ULF 3
LWLP 4
ULP 10
WLB 11
TKCK 3
CSTK 4
MT43 — WMC
SLFK L KEY 2 3A 1
(135) SLFK U L 700 — B74 -48 — 12
(ZWN)
TKCK 6
WTKB 10
ULF 6
(134) WMC
B59 (135) SLFK 1 — -48
B59 (ZWN) (ZZK) KR3 10 — KR 111E6

MASTER TEST CONTROL CIRCUIT (2)

ISSUE 102B

SD-25800-01-B109

BELL TELEPHONE LABORATORIES INCORPORATED — 65

SD-25800-01-B109

SD-25800-01-B110

WIDEBAND CONTINUITY TEST CKT

MARKER CKT

FS 120 (MFR DISC)

WIDEBAND CONTINUITY VERIFICATION

B59 LWLF 3 WTKB 12 **TKCK** U L 700 B73 -48 8

12 WLB **LPCK** U L 700 B73 -48 12

ON MT60 MT51 WCN CST (135)→ WMTI 7 CSTK 6 **CSTK** U L 860 B74 -48

ULP U L 700 B73 -48 ULP 6 ULF

TKCK 12

ULF L U 1625 -48 B73 500 ULP 12 500 WCF CTMI 11 CTM2 6

ULF 9

SKTM 12

ULF 12 LWLP 12 **LWLP** U L 700 B73 -48 LWLP 6 ULP 2 B59

LWLF **LWLF** L U 1625 CTMI 10 CTM2 4

LWLF 12

SKTM 11 WLB 10

MT51 SLFK (135)→ SLFK 8 CSTK 11

WCN

MTFC CKT

ON TRB WBL BSL WCN (135)→ 10 WMTI VTS 9 WTHI 12 **2CNK** 1U 2U 640 B73 -48 12

CON TRB

ICNK 1L 2L 640 B73 -48 5

(135) ZZK KR3 9 (ZWN) B59

(134) TKCK B59 (135) TKCK 10 -48

(134) LPCK B59 (135) LPCK 10 -48

(134) ULP B59 (135) ULP 3 -48

(134) ULF B59 (135) ULF 11 -48

(134) LWLP B59 (135) LWLP 10 -48

(134) LWLF B59 (135) LWLF 11 -48

(134) ICNK B59 (135) ICNK 3 -48

(134) 2CNK B59 (135) 2CNK 10 -48

B59 (135) WBT5 5 (135) WMTI 11

(134) WODT L KEY B54/DI 5 6C (135) WBT6 10

12 (135) WMTI 11 (135) TKCK 7 TKCK

B56 WFB WFA IAOF (135)→ 7 3 1 VTS 10

VTS 1U 2U 640 B73 -48 WMTI 6

100T 200T 50T 3.1W

MARKER CKT

RWCN WDCI WCK ITR WLC

MT53 MT53 MT43 MT53 MT53

T1 R1 T R

MT60 -48 MT61 -48 A

ON ON 0.3dB PAD ON ON A

MT61 B 4.0dB PAD B MT61

0.3dB PAD

FIXED PAD

MT60 MT60

ON ON

OSCILLATOR

CON -48 CONTINUITY DETECTOR

D 4.1 dB PAD C 1.5dB PAD

A B 8.2dB PAD B 0.4dB PAD

LB TB TBL

WIDEBAND CONTINUITY TEST CKT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INC

SD-25800-01-B110

ISSUE 102B

DRAWING ISSUE 77D 77A 62D

F.S.121 (MFR DISC)
MISCELLANEOUS WIDEBAND CONTINUITY CONTROL

WIDEBAND CONTINUITY TEST CKT

TT2X CKT

MARKER CKT

MTFC CKT

DRAWING ISSUE
71D
76D
77A
81A
82D
83A

DF1 (ZPI) 135 BSMT 9 — 134 DF L KEY 3A 2 — B54/DI

CON ON TST TBL TBL

TST MT43 CWCN BSL TBL WBL

CWCN (ZTF) MKT4 3 (ZWN) (ZWN) — 134 CWCN L KEY 3A 2 — B54/DI B59 — 135 CWCN 3 — 134 CWCN — -48

135 WBT5 6

CWCN IL 2L B73 640 -48 — WBT5 — 135 — 5

MT54 LB 135 WLB U L B73 700 -48

TOG LB

TO ALARM CKT TST TBL MJ

TB MT54 TB 135 WTKB U L B73 700 -48

WHS2 WBC2

11 WTKB TKCK 5 — 135 — 134 WODT L KEY 3B 2 — 135

135 KR ZZK 10 KR3 (ZWN) 109H5

WLC WFC2 WFCT WFCK -48

MTFC CKT

ZPK WFCK (ZPI) BSMT 11

ZPK CCKI (ZPI) BCNK 11 — 135 WFAK 11

WCN -48 WBL BSL BCN WCK BCN

ZPK CCK 1 2 3A (ZPI) BCN L KEY — 135 WFBK 2 — B57

BCN -48

(ZPI) BCN (ZPI) BSMT 7 — (ZPI) BCNK IU 2U B84 640 -48

B54/DI — 134 WODT L KEY 2 3C — 135 — CSTK 2 — CTM1 U L B74 2000 -48

TKCK 9

CSTK 1 — CTM2 U L B74 1050 -48

LPCK 9

B54/DI — 134 SLFK L KEY 5 6A — 135 — SLFK 2 — SKTM U L B74 2000 -48

LWLF 10

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-BIII

6S

SD-25800-01-BIII

MARKER CKT

WFCI — WFCT — MT53 — MT52

WTT — (135) WBT5 10 — (134) XWR L KEY 3A 2 1 — (134) XRCP L KEY 3D 2 — B54/DI

WTR — (135) WBT5 9

WFC2 — WFCT — MT53 — MT52

WTTI — (135) WBT5 8 — (134) XWR L KEY 3D 2 1 — (134) XTMP L KEY 3C 2 — B54/DI

WFCI — WFCT — MT53 — MT52

WTRI — (135) WBT5 7

MT52 — WFCK — WFCT — MT-

-48

FS122 (MFR DISC)

WIDEBAND FALSE CROSS AND GROUND TEST

FS 123 (MFR DISC)

WIDEBAND LINE MAKE BUSY

COMPLETING MARKER CKT

B49 — (135) WBTI 4 — (135) VLB 10 — VLB — MT44 — VLB

(135) VLR 3 — VLR — MT44 — VLR

VLBK

-48 — B49 2U 1U 640 — WBTI 12 — VTS — MT44 WMBA VLB VLR WCV MT44

12

VLRK

-48 — B49 2L 1L 640 — WBTI 11 — VTR — MT44 — TMB — VLB — MBCK

1

(135) MBC

-48 — B49 2L 1L 640 — (135) WMT 5 — MBC — MT47 — MBC MT44

B49 — (135) MBC 5 — MBCK — MT47 — MBCK — MT44

(135)

(135) **VLB** — -48 — B49 2U 1U 640 — 12 — (134) VLB NL KEY 2B 1

(135) **VLR** — -48 — B49 2L 1L 640 — 1 — (134) VLR NL KEY 2A 1

3C (134) VLK L KEY 2 — B54/DI

KR — (ZWN) — (ZZK) KR3 5 — B56

10603

WIDEBAND LINE LINK CKT

WIDEBAND REMOTE SWITCH SIGNAL CONTROL CKT

RC — MBC- — -48

RC — MBC-

WIDEBAND LINE CONTROL CKT

LOC — MBC-

MBC-

(134) VLB — (135) VLB 8 — -48 — B49

(134) VLBK — (135) VLBK 8 — -48 — B49

(134) VLR — (135) VLR 5 — -48 — B49

(134) VLRK — (135) VLRK 5 — -48 — B49

DRAWING ISSUE

71D	1ST SPLIT
75B	
77A	
82D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B112

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B112

SD-25800-01-BII3

FS 124 (MFR DISC)

WIDEBAND LINE VERIFICATION CONTROL

WIDEBAND LINK CKT

HOLD ON CONTACT ON (L---) SWITCH VERTICAL ASSIGNED TO LOCAL CUSTOMER

TO HOLD ON CONTACTS OF (L---) SWITCH VERTICAL WITH SAME TEN DIGIT IN SAME WIDEBAND LINE LINK

TO HOLD ON CONTACTS OF (L---) SWITCH VERTICAL WITH SAME UNITS DIGIT IN SAME WIDEBAND LINE LINK

TO HOLD ON CONTACTS IN OTHER WIDEBAND LINE LINKS

WIDEBAND LINE CONT CKT

BIT-STREAM LINK

WIDEBAND REMOTE SWITCH SIGNAL CONTROL CKT

WIDEBAND LINE LINK CONN CKT

COMPLETING MARKER CKT

WIDEBAND REMOTE SWITCH CKT

MASTER TEST CONTROL CIRCUIT

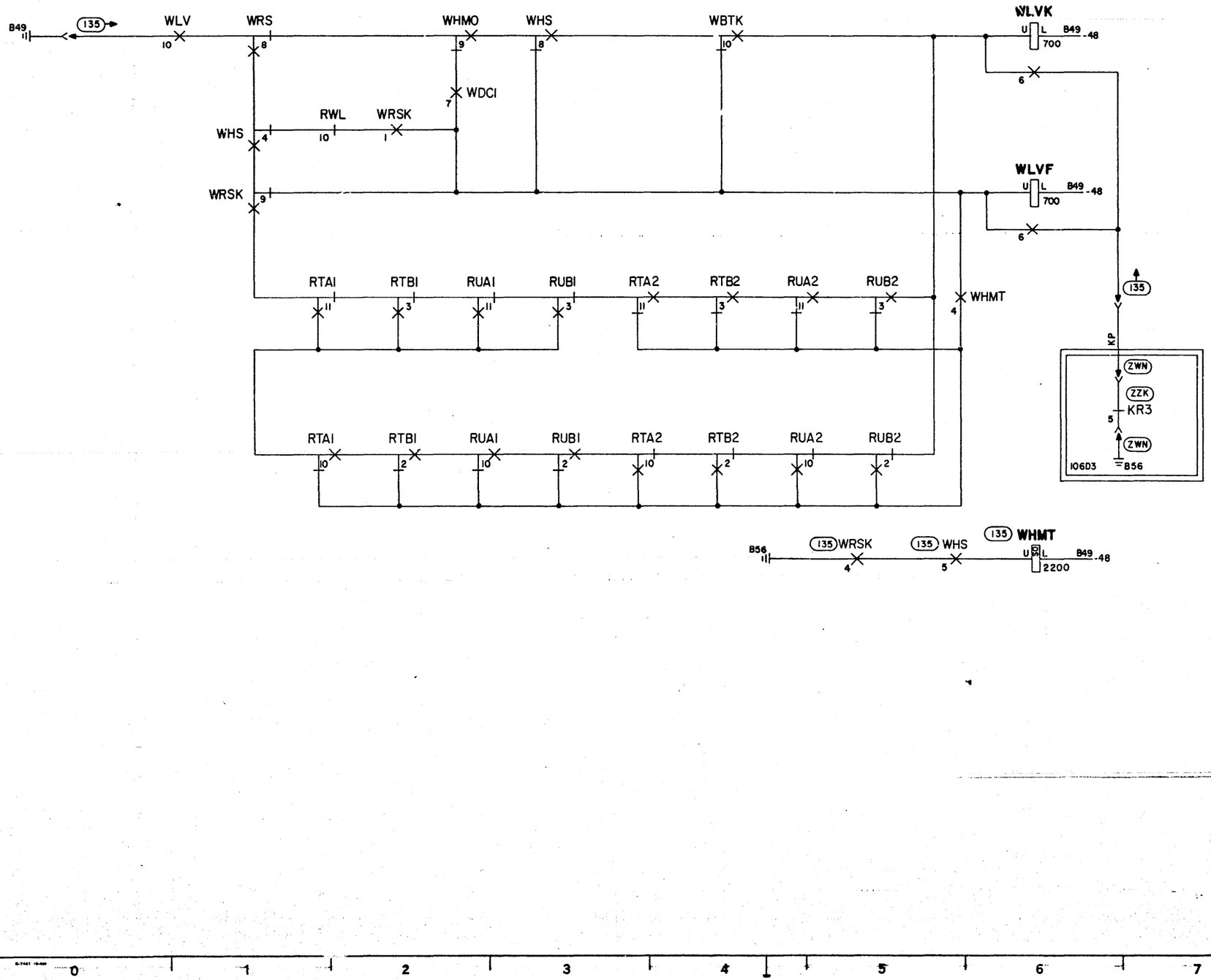
BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-BII3

ISSUE 102B

DRAWING ISSUE 83A 82D 6S

FS 125 (MFR DISC)
WIDEBAND LINE VERIFICATION CHECK



DRAWING ISSUE
71D
82D
83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-B114

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-B114

SD-25800-01-B115

FS 126

AUTOMATIC INTERCEPT SENDER AND LINE SELECTION (A&M ONLY)

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-B115

106B

DRAWING ISSUE

BELL TELEPHONE LABORATORIES INCORPORATED

6S

FS 127
CALL WAITING TEST

(145) CWCV — L KEY — B45 — 2 — 3B
(146) CWCV — U L B47 -48 — 2500

(145) CWTV — L KEY — B45 — 2 — 3A
(146) CWTV — U L B47 -48 — 2500

(146) CWCV — B47 — 3
(146) CWTV — B47 — 3
(146) CWI,2 — U L B47 -48 — 2500

CHTI 508/H3
ZTO
ZVC MC22
B46 — ZTI,ZTO — 2
(146) CWI — 1
CWMI,2 — U L B47 -48 — 700
CWC 117G4

ZTI — KR3 — ZTI — 4 — 117H8 — KR
B7 — TMI — LQ — 5B 4 — (146) — CW
74E3
(146) CWLT — 2
(146) CWTH — 6
(146) CWTH — U L B47 -48 — 700

B1 — KR — DISI — (146) — CWDS
5 6B 5B 4
37A/D1
CWDS — CWI — 2
IL 2L B67 -48 — 640

2 (145) CWCV

B47 (146) CWI — 3
(146) CWRL — 4
(146) CWOR — 11
(146) CWTV — 1
CLT
CWC

ZTK MFC2 — 1
(146) CWCV — 7
(146) CWTL — 9
(145) LVOK — L KEY — 2D 1
(146) CWH — 6
MFC

B47 (146) CWI — 6
(146) CWKR — 11
(146) CWH — 5
(146) CWH — U L B47 -48 — 700

(146) CWRL — B67 2L IL -48 — 640
B47 (146) CWI — 4 — 1
CRL

TRUNK TEST CKT
CLT -48
CWT -48
MFC -48
CLT CWSV MFC

CALL WAITING LINK CKT
(145) LVOK — L KEY — 2 1 — 3A
(146) CWHI — 4 — T2
CWTI T2 -48
(146) CWHI — 5 — T3
CWTI T3 -48

DT — 6T 5 — ZTF MKT4 — 4 — ZQZ — CW — ZQZ — DTM
208/F2
CWTI DTM

LINE LINK CONN CKT
LINE LINK & MKR CONN CKT

DRAWING ISSUE
780
800
820
83A

ISSUE 95A

(145) CWL — B47 — (146) CWL — 10 — -48
(145) CWK — B47 — (146) CWK — 2 — -48
(145) NCW — B47 — (146) NCW — 2 — -48
(145) NCWC — B47 — (146) NCWC — 2 — -48
(145) LVO — B47 — (146) LVO — 2 — -48
(145) RLH — B47 — (146) RLH — 10 — -48
(145) CWSP — B47 — (146) CWSP — 10 — -48
(145) CWH — B47 — (146) CWHI — 2 — -48

(145) CWTH — B47 — (146) CWTH — 10 — -48
(145) LOK — B47 — (146) LOK — 10 — -48
(145) CRL (RED) — B47 — (146) CWRL — 2 — -48

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-B116
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-B117

FS 128
CALL WAITING LINK CONTROL

CALL WAITING LINK CKT

(146) CW — -48 — B78 — R — (ZTI) — (146) CWI 12 — 12 — ALL — (ZWS) FT SW SECT 5 — 0-5 — 1-6 — FTO-5 — TC

TO CALL WAITING LINK CIRCUITS ASSOCIATED WITH LINE LINK FRAMES WITH SAME TENS DIGIT

(ZWQ) FU SW SECT 5 — B45 — (ZTI) — 12 — ALL — 0-9 — 1-10 — FUO-9

TO CALL WAITING LINK CIRCUITS ASSOCIATED WITH LINE LINK FRAMES WITH SAME UNITS DIGIT

(145) CWC SW SECT 2 — ALL EXCEPT SELECTED — B45/D2 — 12 — ALL — 1-11 — 1-11 — CWI-11 — CWTI — CB-

MB SW

(145) CWT — -48 — CWT — TC

NCWC — -48 — B67 — 2L — IL — 640 — NCWC — CWTI — NCW

CWSP — -48 — B67 — 2U — IU — 640 — CWSP — SP — CWTI — SP — -48

LVO — -48 — B67 — 2L — IL — 640 — LV — CWTI — LVO

(145) CWC SW SECT 1 — ALL EXCEPT "OFF" — 116C1 CWC — 12 — ALL — 1-11 — 1 — CWC — CWCI — CWT2 — -48

(145) CW SW

(146) CWH — -48 — B78 — 1260 ±1% — 4 — XH — SECT 1 — SECT 2 — LB 2 — XH 4 — CWH — CWTI — TEST VERT — CWH — HOLD — -48 — LP-

(146) CWMI — B47 — 7 — 2 — LB — 3 — XS — 12 — ALL — XS 3 — XS — CWTI — CP- — -48 — CWSI — CWS2 — DTM

6 — CWCB — CWC3 6

7 — CWLB — CWLB 7

LBY — CWTI — LBY — -48

TV — CWTI — HG9 VG2 VFO — NCW

LP- — -48

SXT — CWTI

ALL — 12

CWTV 8 — CWMI 5 — CWCV

LINE LINK CONN CKT

XCW 1 — (146)

CWM2 10 — CWF2 — MT- — VFT- — MT-

PS 8 — (ZQR) MC23 2 — CWFI — MT

(ZTI) — (146)

5 — SXT

8 — PS

-48 — B78 — 640 ±1% — 10 — (146) XCW — 1 — XCW

SXT 5 — (146) — (146) — CWK — 9 — CWMI — CWK — MTFC CKT — (DT MKR) — CWK — (COMPL MKR) — CWR

(ZTI)

-48 — B47 — L — U — 700 — 6 — CWK

MKR CKT

11684 — (ZTI) — (146) — (146) — KRN 11962

KRI 508/H4 — (ZZK) KR3 — (ZTC) — (146) — CWH — 9 — CWHI — U — L — B47 — 700 — -48

(ZTI,ZTC) — B46 — 9 — CWHI — B47

CWL — -48 — B67 — 2U — IU — 640 — 12 — CWMI — CWL — MT- — CWL — DT MKR

RLH — -48 — B67 — 2U — IU — 640 — 12 — CWMI — RLK — MT- — RLK

NCW — -48 — B67 — 2L — IL — 640 — 1 — CWMI — NCW — MT- — NCW

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S — (2) — SD-25800-01-B117

ISSUE 95A

MARGIN ISSUE 780 800 820 83A

CALL WAITING LINK CKT

CUSTOMER STATION

CUSTOMER VERTICAL

TEST VERTICAL

CK2

LP-

HON

LEVEL "0"

HON

TC

LK

LP-

CWLH

TC

CALL WAITING CKT

LINE LINK FRAME

TRUNK LINK FRAME

IAO TRUNK

ORIGINATING REG CKT

T

R

L

S

RL

ON

10

NO. TEST CONNECTOR CKT

48C/F1

CWTH

LT

T,R,S

TRUNK TEST CKT

VOLTMETER TEST CKT

DRAWING ISSUE 78D

FS 129
CALL WAITING
TIP, RING AND SLEEVE CONNECTION

(146) LOK

-48 867 2U 1U 640

(146) LOK 12

(146) CWK 3

(146) CWDS 3

(145) CWH 30 2 1 L KEY

(146) RLH 9

(145) RLH 1 2C L KEY

(146) RLH 8

(145) RLH 1 28 L KEY

(146) CWOR 4

(146) CWOR 3

(146) CWOR 2

(146) CWOR 1

(146) LOK 6

847

(146) CWOR 10

(146) CWK 1

48A/A5

NTH

NTC

LINE LINK FR

S

T

CWOR

CWTV

CWTV

CWOR

48A/D8

508/02

TI

RI

T

R

S

CWT

CWR

78

MASTER TEST CONTROL CIRCUIT (2)

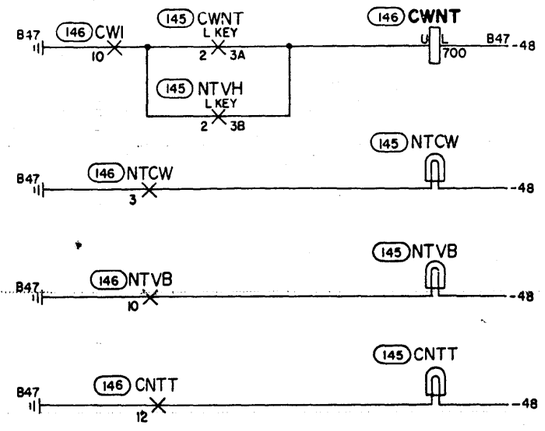
SD-25800-01-8118

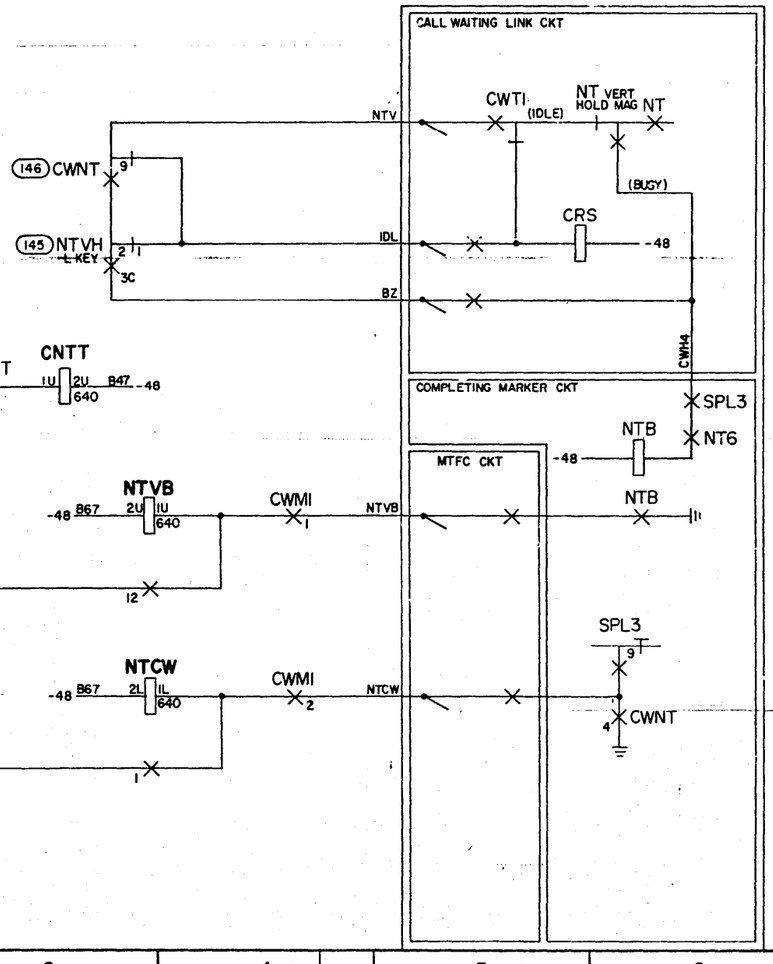
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-8118

FS 130
CALL WAITING- NO TEST





DRAWING ISSUE
85A

MASTER TEST CONTROL CIRCUIT
(2) SD-25800-01-8119

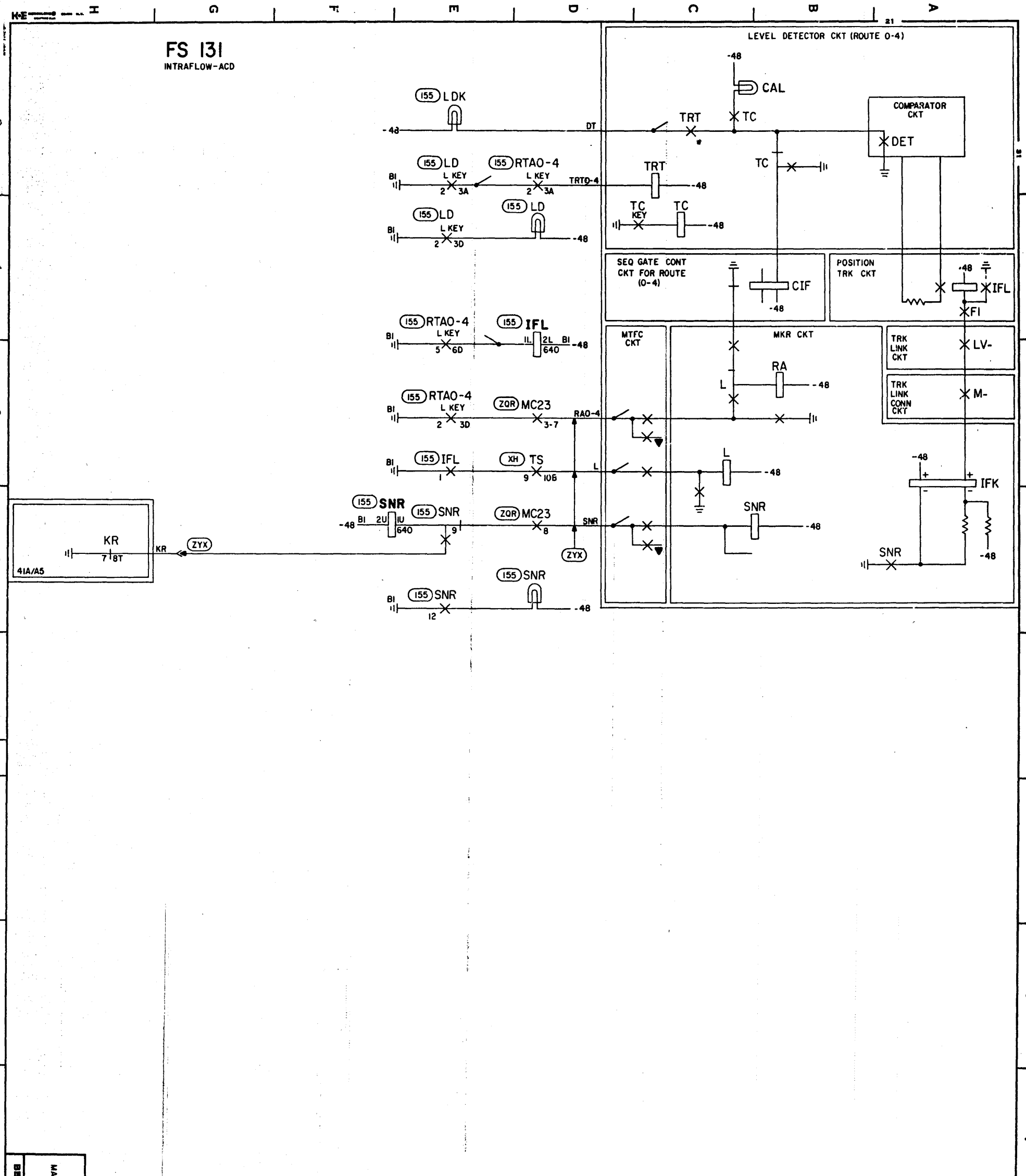
BELL TELEPHONE LABORATORIES INCORPORATED
SHEET NO. 65

SD-25800-01-8119

DRAWING ISSUE
82D
83A

SD-25800-01-B120

FS 131
INTRAFLOW-ACD



MASTER TEST CONTROL CIRCUIT

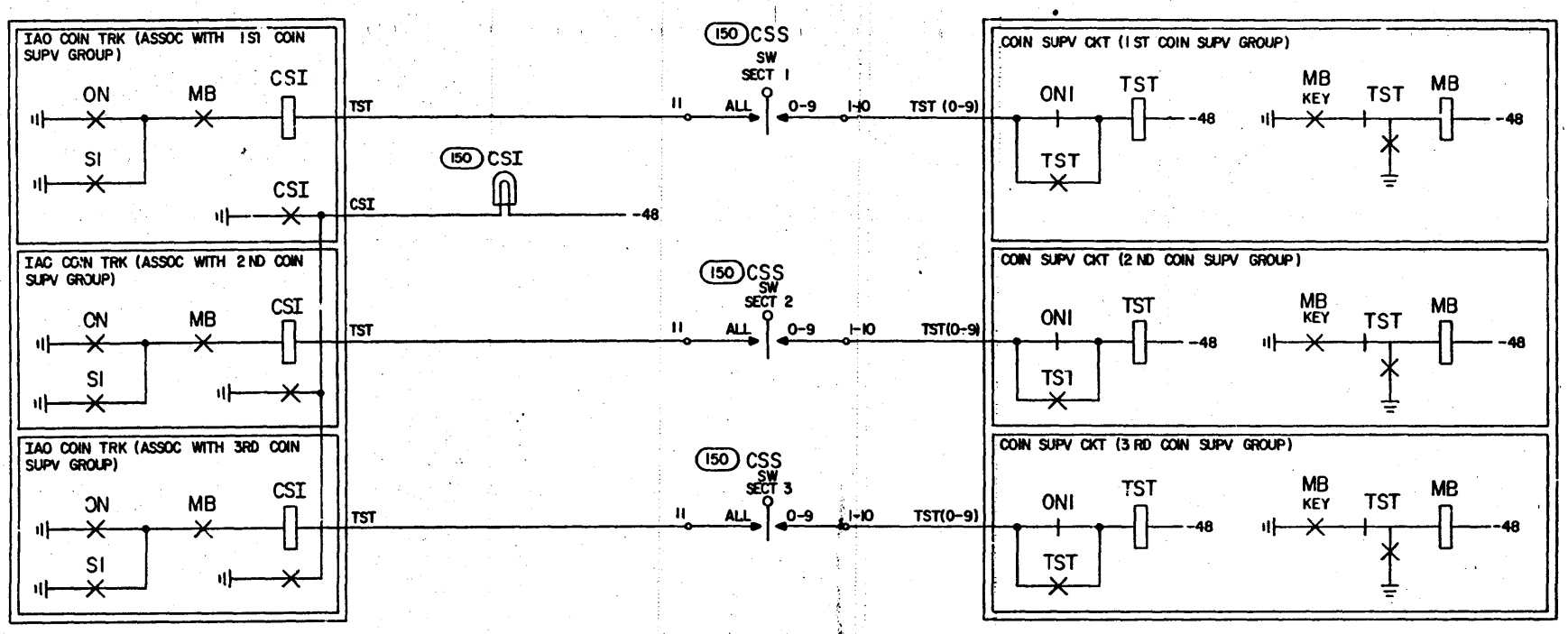
BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-B120

DRAWING ISSUE 84D

SD-25800-01-B121

FS 132
COIN SUPERVISORY CKT SELECTION



FS 133
ACD CALL TRANSFER

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

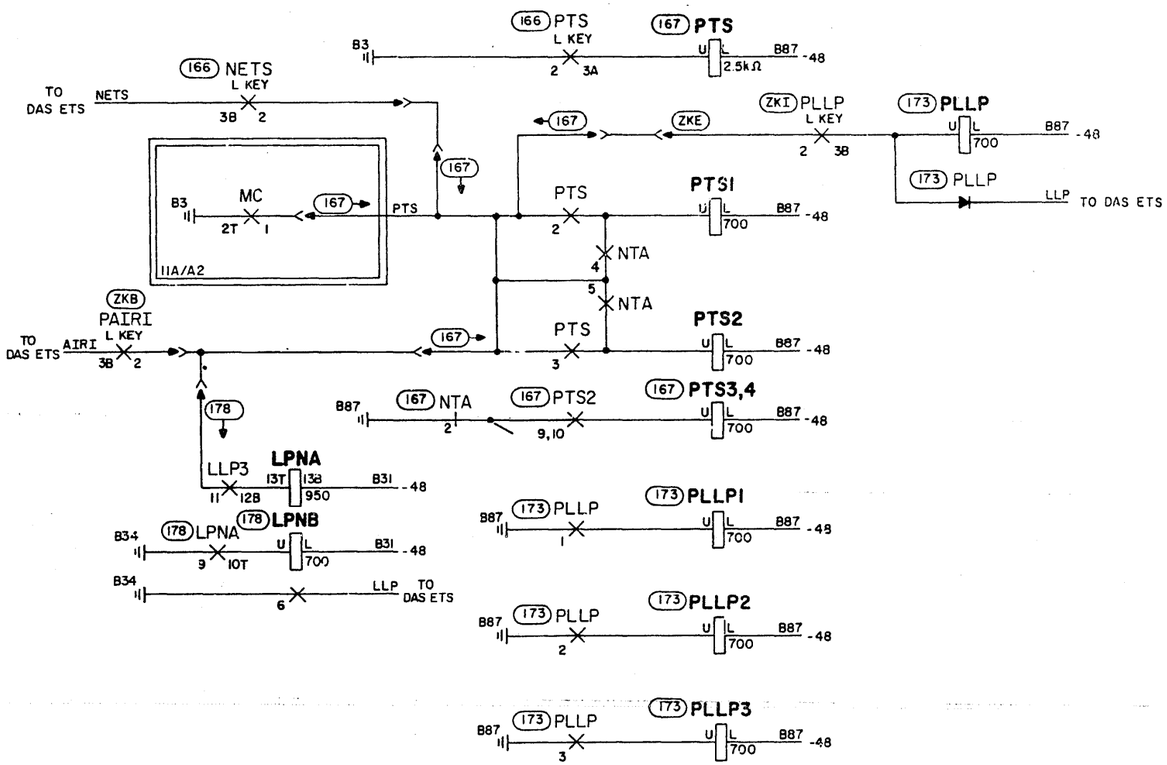
6S

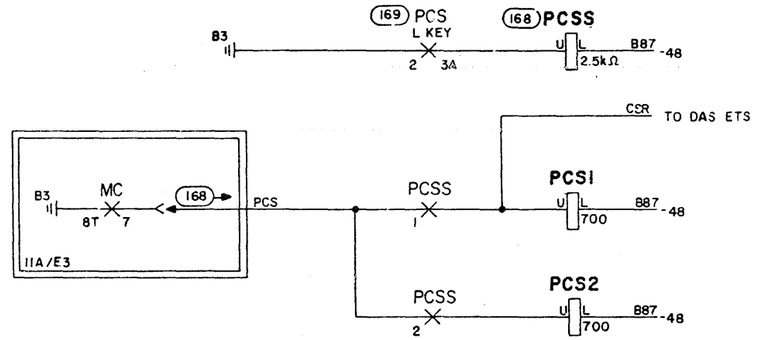
2

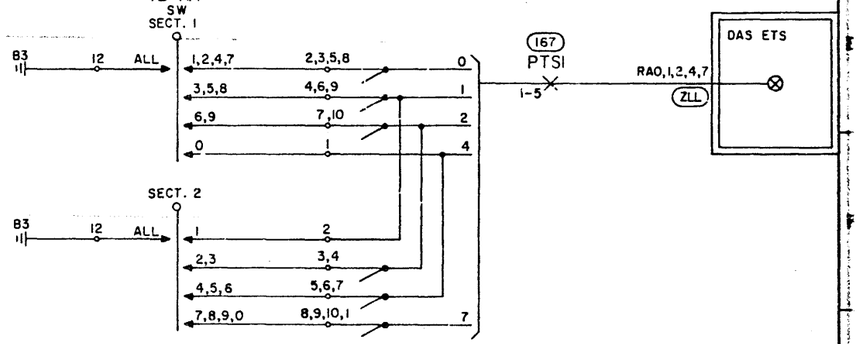
SD-25800-01-B121

97A ISSUE

FS 134
NO. 5 ETS CUT-IN RELAYS







ISSUE 102B

MASTER TEST CONTROL CIRCUIT	SD-25800-01-B122
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S

FS 135
CALL DATA TRANSMITTER CONTROL

CALL DATA TRANSMITTER APPLICATION CKT

ZJC MC24 3 — B68 — ZID — 179 — CDTT L KEY 5 6D — CDTT — CDTT

TREC L KEY 2 3D — TREC — TREC

TMRT L KEY 2 3C — TMRT — TMRT

TAD L KEY 2 3D — TAD — TAD

TAS L KEY 2 3C — TAS — TAS

CDCO L KEY 5 6D — EVN — TST — OKOA

CDCI L KEY 5 6C — ODD — TST — OKIA

179 CDCO L KEY 5 6A

179 CDCI L KEY 5 6B

179 CDTT L KEY 5 6A — ZID — TST — TST

179 TST 226 — B15 -48 — ZJC MC24 8

MARKER O — MT13

MASTER TEST CONTROL CIRCUIT

DWG SIZE	ISSUE
6S	104B

BELL LABORATORIES | SD-25800-01- | 8123

APP FIG. B

RELAY

DESIG	LV2			LV3			LV4			LV5			LV6			MC8			SDR1		
CODE	U947			U54			U947			U438			U55			U81			U826		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	a	12,11	M	6A/F0	12,11	M	11E6							12,11	M	38E9	12,11	M	6B/D3
	10,9	B	29B2	10,9	M	5A/E6	10,9	B	5A/D0	11,10	M	6A/F0				10,9	M	12D8	10,9	B	47D9
	8,7	B	57B/F5	8,7	M	9G4	8,7	B	9G4	9,8	M	6B/C5	9,8	M	6A/E5	8,7	M	12E8	8,7	B	54B/G1
	6,5	B	8A/G7	6,5	M	50A/F4	6,5	B	12G8	7,6	M	7A/F2	7,6	M	59G8	6,5	M	57A/C8	6,5	B	58C3
	4,3	B	3:A6	4,3	M	6B/A3	4,3	B	26A/F5	5,4	M	59G7	5,4	M	6A/F3	4,3	M	68B/F5	4,3	B	20A/H1
	2,1	B	12G6	2,1	B	6B/B3	2,1	B	20A/H0	3,2,1	BM	50A/G4	3,2,1	BM	12F6	2,1	M	56A/F1	2,1	B	31C0
BOT.	2,1,3	MB	6B/B4	2,1	M	54B/F2	2,1,3	MB	6B/E5	3,2,1	BM	a	3,2,1	BM	1A/A8	2,1	M	2B/A5	2,1	B	12H7
	5,4	B	b	4,3	M	20A/G0	5,4	B	57B/B4	5,4	M	69A/C3	5,4	M	5A/E0	4,3	M	5A/F6	4,3	B	5A/D1
	8,7,6	BM	57B/B3	6,5	M	26A/F5	8,7,6	BM	7A/F4	7,6	M	68B/E2	7,6	M	6B/A3	6,5	M	67D1	6,5	B	56A/E8
	11,10,9	BM	6A/F1	8,7	M	12E8	11,10,9	BM	6A/G1	9,8	M	7B/G1				8,7	M	59G7	8,7	B	7A/E4
				10,9	M	12E8				11,10	M	69B/G2				10,9	M	57A/D8	10,9	B	9G4
				12,11	M	6B/C5						68B/C3				12,11	M	67D2	12,11	M	6A/G1
COIL			6B/B5			6A/F1			63/A5			6A/F1			6A/E7			11D6			6B/D3

LV2: a — ZRU 5B/D0, ZRW 5A/E8; b — ZRW 5A/G8, ZRU 5B/C3

LV5: a — 68B/C3, 54B/H2

RELAY

DESIG	SDR2			TV			TV1			TV2			TV3			TV4			LV6A		
CODE	U1288			U106			U378			U438			U177			U177			U1182		
OPTION																			ZSI		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	3B/C6															
	11,10	M	6A/G1	10,9	M	20A/G0				11,10	M	11D6							12,11	M	
	9,8,7	BM	58C2	8,7	M	38F9				9,8	M	68B/F4							10,9,8	BM	34B/F6
	6,5	M	68B/C3	6,5	M	12G8				7,6	M	68B/B3	9,8,7	BM	56B/F1	9,8,7	BM	56A/F2	7,6	M	
	4,3	M	7B/G1	4,3	M	4A/G3	5,4	M	68B/B4	5,4	M	65A/C5	6,5,4	BM	56B/F3	6,5,4	BM	56A/F0	5,4	B	
	2,1	M	56A/E9	2,1	M	a	3,2,1	BM	7A/E3	3,2,1	BM	54B/C2	3,2,1	BM	56A/F5	3,2,1	BM	56A/F1	2,1,3	MB	34B/A6
BOT.	2,1,3	MB	67G2	2,1,3	MB	6A/E0	3,2,1	BM	1A/B8	3,2,1	BM	a	3,2,1	BM	a	3,2,1	BM	5A/D1	2,1,3	MB	5A/C2
	5,4	M	69A/D3	5,4	M	69A/B3				5,4	M	6B/C5	6,5,4	BM	32F7	6,5,4	BM	57A/F7	5,4	M	
	7,6	M	68B/D2	7,6	M	68B/D2				7,6	M	69B/G1	9,8,7	BM	32F6	9,8,7	BM	a	7,6	M	
	9,8	M	1B/D2	9,8	M	5A/E0				9,8	M	102B0							10,9,8	BM	
	11,10	M	7A/F3	11,10	M	59H8				11,10	M	68B/F5							12,11	M	
COIL			6A/G1			3B/C6			3B/B6			68B/A5			68B/B5			68B/B5			6A/E8

TV: a — ZRU 5B/D0, ZRW 5A/E8

TV2: a — KU 97A5, ZOV 58A0

TV3: a — 11B/F4, 67F6

TV4: a — 56A/B7, 67G1

LAMP

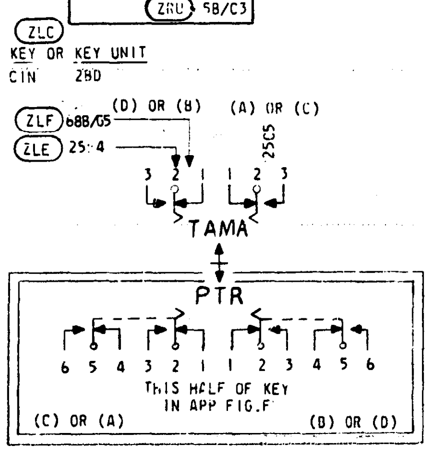
OPT	DESIG	LOC	CODE
ZVV	TLV	6A/F3	21 MI
	TVT	4A/G4	21 MI
ZOW	TVK	69A/H2	21 MI

RESISTOR

OPT	DESIG	LOC	CODE
	R	50A/G4	18BH

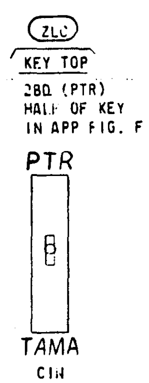
RELAY

DESIG	VFA		
CODE	U1113		
OPTION	ZLF		
	CONT NO.	CONT ARR	LOC
TOP			
	10,9	M	25B1
	8,7	M	25B1
	6,5,4	BM	25E2
	3,2,1	BM	25D1
BOT	3,2,1	BM	25D3
	6,5,4	BM	25B2
	8,7	M	25B2
	10,9	M	25B3
COIL			8D/G6



APP FIG. A

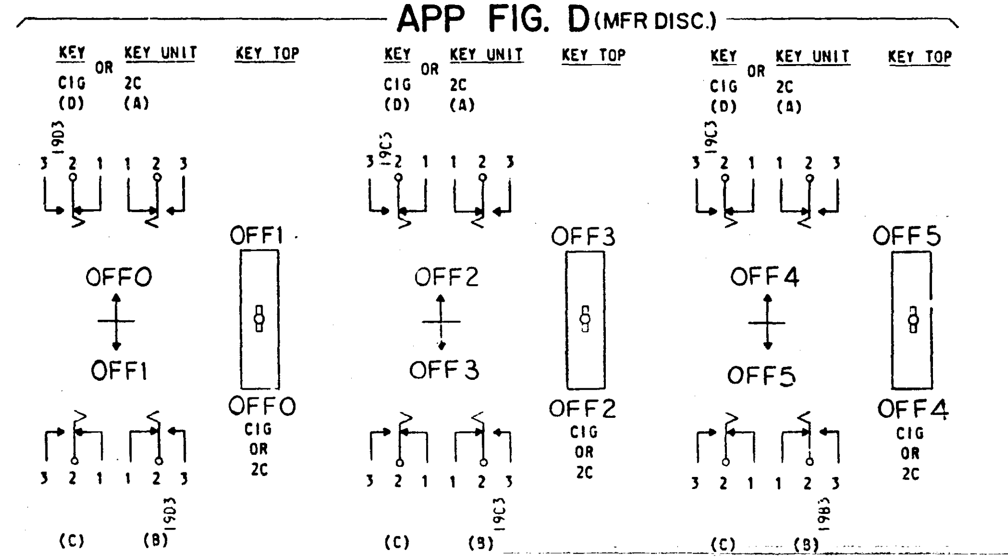
WIRING ONLY



APP FIG. C (MFR DISC.)

WIRING ONLY

APP FIG. D (MFR DISC.)



APP FIG. E

WIRING ONLY

DRAWING ISSUE
51D
53D
58D
60D
61A
62D
63D
65D
66A
67D
68A
73D
74A
75B
76D
77A
78D
79A
80D
83A

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-C1

APP FIG. F

RELAY	CM3			CMA			CMB			CMC			GI			GR			PCI		
DESIG																					
CODE	U419			U419			U419			U419			U601			U601			U64		
OPTION				ZI			ZJ			ZK											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																			12,11	M	72F1
																			10,9	M	72F9
													9,8	M	72B3	9,8	M	72B3	8,7	M	72F1
													7,6	M	72B2	7,6	M	72B2	6,5	M	138/D3
													5,4	M	72E1	5,4	M	72D1	4,3	M	138/D4
	3,2,1	BM	–	3,2,1	BM	–	3,2,1	BM	–	3,2,1	BM	72C8	3,2,1	BM	–	3,2,1	BM	72G2	2,1	M	138/D4
BOT.	2,1	M	72A7	2,1	M	72A7	2,1	M	72A7	2,1	M	72A7	2,1	B	58C1	2,1	B	–	2,1	M	72F3
	4,3	M	72D6	4,3	M	72D7	4,3	M	72D7	4,3	M	a	5,4,3	BM	72H2	5,4,3	BM	58C1	4,3	M	72F4
													7,6	M	72D4	7,6	M	72E4	6,5	M	72D0
																			8,7	M	72F4
																			10,9	M	72F5
																			12,11	M	72G1
COIL			72D6			72D7			72D7			72D8			72B3			72B3			72F0
										a		72A9 72D8									

RELAY	PC2			PC3			PRL			PST			PT			PT1			PTR1		
DESIG																					
CODE	U64			U1391			U300			U1362			U601			U1392			U426		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	72F9																		
	10,9	M	–																		
	8,7	M	548/C3				9,8	M	72B4				9,8	M	2B/C3	8,7	M	–			
	6,5	M	a	6,5	M	72F6	7,6	M	72C3	7,6	M	–	7,6	M	a	6,5	M	72G0	7,6	M	72B5
	4,3	M	32F4	4,3	M	72F6	5,4	M	72B8	5,4	M	72D1	5,4	M	4A/C0	4,3	M	–	5,4,3	BM	72B2
	2,1	M	65A/A6	2,1	M	–	3,2,1	BM	72B2	3,2,1	BM	a	3,2,1	BM	7A/B3	2,1	M	72E0	2,1	B	72E2
BOT.	2,1	M	72C1	2,1	M	72D7	2,1	B	72F2	2,1	M	72D4	2,1	B	–	3,2,1	BM	1A/C9	3,2,1	BM	72E0
	4,3	M	72F5	4,3	M	72D7	5,4,3	BM	72E0	4,3	M	–	5,4,3	BM	–	5,4	M	68/E5	5,4	M	58B0
	6,5	M	58B2	6,5	M	72F8	7,6	M	58C2	6,5	M	72E0	7,6	M	548/D4	7,6	M	72E2			
	8,7	M	–																		
	10,9	M	–																		
	12,11	M	–																		
COIL			72F1			72F1			72B4			72F0			2B/C7			2B/A7			72B5
	a (NT) 34A/E8 (NO) 34B/B6									a		72H2 58C0	a (ZRU) 5B/E3 (ZRW) 5A/F8								

RELAY	SD			SR																	
DESIG																					
CODE	U419			Y250																	
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				10,9	M	–															
				8,7	M	–															
				6,5	M	–															
				4,3	B	72B3															
	3,2,1	BM	–	2,1	B	72B4															
BOT.	2,1	M	72A6	2,1	B	58B1															
	4,3	M	72D6	4,3	B	–															
				6,5	B	72E0															
				8,7	M	72F0															
COIL			72D6			72E2															

KEY OR KEY UNIT C1G 2C (D) (A) — 72E8, 72A8 — LK ‡ RLK — KEY TOP RLK — LK C1G OR 2C

KEY OR KEY UNIT C1G 2C (D) (A) — 72G1 — OT ‡ PRL — KEY TOP PRL — OT C1G OR 2C

(QV) KEY OR KEY UNIT C1N 2BD (D) OR (B) (A) OR (C) — PTR

(QV) KEY TOP — 2BD PTR — PTR OR PTR — C1N

72C3 (C) 72D5 (B) — 72F2 (C) 72F4 (B) — 72G2 72F5 (C) OR (A) 72E4 72H1 (B) OR (D)

(QW) KEY OR KEY UNIT C1N 2BD (D) OR (B) (A) OR (C) THIS HALF OF KEY IN APP FIG.7 — IOD ‡ PTR — 72G2 72F5 72E4 72H1 (C) OR (A) (B) OR (D)

(QW) KEY TOP — 2BD PTR — PTR OR PTR — IOD IOD C1N (IOD) HALF OF KEY IN APP FIG. 7

(ZLC) KEY OR KEY UNIT C1N 2BD (D) OR (B) (A) OR (C) THIS HALF OF KEY IN APP FIG.8 — TAMA ‡ PTR — 72G2 72F5 72E4 72H1 (C) OR (A) (B) OR (D)

(ZLC) KEY TOP — 2BD PTR — TAMA C1N (TAMA) HALF OF KEY IN APP FIG. 8

LAMP

OPT	DESIG	LOC	CODE
	CM3	72A6	24MI
ZI	CMA	72A7	24MI
ZJ	CMB	72A7	24MI
ZK	CMC	72A7	24MI
	GI	72A2	24MI
	GR	72A2	24MI
	HD	72D1	24MI
	PRL	72A2	24MI
	PTR	72A2	24MI
ZVU	PTT	4A/F1	24MI
	SD	72A6	24MI

RESISTOR

OPT	DESIG	OPT	CODE
	PST	72C0	18AG

APP FIG. G

WIRING ONLY

DRAWING ISSUE

SID	PID	WIRE LIST
65D	TJD	84A
67D		84A
68A		84A
74A		
76D		
77A		
78D		
80D		
82D		

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C2

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C2

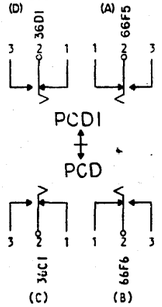
STABILO

APP FIG. H

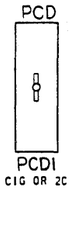
RELAY																													
DESIG	DS			MC9			OF			PC			PCD			PCD1			PCR										
CODE	U499			U144			U1309			U188			U188			U188			U188										
OPTION																													
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	-																							
				10,9	M	33A/E9				12,11	M	34B/G3	12,11	M		12,11	M	-	12,11	M	-									
				8,7	M	66F4	8,7	M	66C5	10,9,8	BM	28/E2	10,9,8	BM	66C6	10,9,8	BM	66D6	10,9,8	BM	66C6									
				6,5	M	44B/D5	6,5	M	-	7,6	M	34B/H3	7,6	M	66C6	7,6	M	66D6	7,6	M	66E6									
	5,4	M	508/B9	4,3	M	44B/E4	4,3	M	-	5,4	M	11E6	5,4	M	66A6	5,4	M	66D6	5,4	M	66E5									
	3,2,1	BM	66D4	2,1	M	44B/D1	2,1	B	66C1	2,1,3	MB	57A/F1	2,1,3	MB	66F5	2,1,3	MB	66F5	2,1,3	MB	66F4									
BOT.	2,1	B	-	2,1	F	-	2,1	B	-	2,1,3	MB	5B/G2	2,1,3	MB	33A/D8	2,1,3	MB	33A/D9	2,1,3	MB	33A/D7									
	4,3	M	66G4	4,3	M	-	4,3	M	66G8	5,4	M	34B/A3	5,4	M	66A6	5,4	M	66D6	5,4	M	66E6									
				6,5	M	-	6,5	M	66B5	7,6	M	-	7,6	M	66A6	7,6	M	66D6	7,6	M	66E6									
				8,7	M	-	8,7	M	-	10,9,8	BM	a	10,9,8	BM	-	10,9,8	BM	-	10,9,8	BM	-									
				10,9	M	-				12,11	M	-	12,11	M	66B6	12,11	M	66D6	12,11	M	66E6									
				12,11	M	53B/E3																									
COIL			66B4			11E6			66C4			34B/G3			66G6			66G6			66F4									

a 31G2, 36E1

KEY OR CIG (D) 36D1 — KEY UNIT 2C (A) 66F5



KEY TOP



LAMP

DESIG	LOC	CODE
PC	34B/H4	24 MI
POF	66F9	24 MI

RESISTOR

DESIG	LOC	CODE
OF	66C4	18AG

RELAY																													
DESIG	PCS			S																									
CODE	U64			U407																									
OPTION																													
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	28/C2																										
	10,9	M	-																										
	8,7	M	33A/H1																										
	6,5	M	34B/H4	6,5	M	508/B9																							
	4,3	M	508/B9	4,3	M	66C5																							
	2,1	M	66D5	2,1	M	66D4																							
BOT.	2,1	M	66D5	2,1	M	66F4																							
	4,3	M	47C8	4,3	M	-																							
	6,5	M	31C2																										
	8,7	M	12G5																										
	10,9	M	44/C0																										
	12,11	M	-																										
COIL			28/C2			508/B9																							

APP FIG. J

RELAY									
DESIG	LT								
CODE	U119								
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP									
	7,6	M	3B/C4						
	5,4	M	44/B6						
	3,2,1	BM	37B/G3						
BOT.	2,1	M	3187						
	4,3	M	12G6						
	6,5	M	52B/F4						
COIL			3B/C4						

APP FIG. K

RELAY									
DESIG	LT								
CODE	U1181								
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	3B/C4						
	10,9,3	BM	37B/G3						
	7,6	M	44/B6						
	5,4	M	a						
	2,1,3	MB	33A/H2						
BOT.	2,1	M	40B/B4						
	4,3	M	3187						
	6,5	M	12G6						
	8,7	B	-						
	10,9	M	52B/F4						
COIL			3B/C4						

a (ZRU) 5B/G2, (ZRW) 5A/68

APP FIG. L

RELAY																													
DESIG	MLVF			MLVM			VER2																						
CODE	U1301			U1301			U57																						
OPTION																													
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							10,9	M	5A/G5																				
							8,7	M	60B/F5																				
	6,5	M	60A/B8	6,5	M	60A/B7	6,5	M	27C0																				
	4,3	M	60B/G7	4,3	M	60B/F7	4,3	M	28B/C0																				
	2,1	M	60B/H5	2,1	M	60B/D6	2,1	M	26A/H2																				
BOT.	2,1	M	-	2,1	M	68/B2	2,1	M	20B/C6																				
	4,3	M	57B/C4	4,3	M	57B/D4	4,3	M	20B/C7																				
	6,5	M	-	6,5	M	-	6,5	M	20B/D1																				
							8,7	M	20B/D7																				
							10,9	M	28B/E8																				
COIL			60A/B8			60A/B7			5A/H6																				

LAMP

DESIG	LOC	CODE
MLVF	60B/H6	24 MI
MLVM	60B/D6	24 MI

51D	PNC PNG AAD
53D	CL CNA CNG
59A	CNG TMD AAD SLT
62D	ASL TJD
63D	TJD TMD AAD
64A	TJD AAD AAB
66A	CK AAC AAD
68A	AAM
70A	CN
71D	AAB
73D	
74A	
75B	
76D	
79A	
80D	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C3

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C3

STABILO

E-74EE-8 (12-61)

APP FIG. M

RELAY

DESIG	LI			MLVF			MLVM			NS			SLK			SLKT			VER2		
CODE	U1321			U1301			U675			U607			U188			U122			U144		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							12,11	M	60A/B7				12,11	M	60B/B1				12,11	H	60B/A7
							10,9,8	BM	60B/B3				10,9,8	BM	-				10,9	H	60B/C7
	9,8	M	60B/B5																8,7	M	60B/A6
	7,6,5	BM	60B/B5	6,5	M	60A/B8	7,6	M	60B/B6	7,6	M	60B/D2	7,6	M	-	7,6	M	60B/H5	6,5	M	27C0
	4,3	M	60B/G4	4,3	M	-	5,4	M	53B/B2	5,4,3	BM	60B/B1	5,4	M	60B/H0	5,4,3	BM	-	4,3	M	28B/C0
	2,1	M	53A/D1	2,1	M	60B/H5	2,1,3	MB	53B/A5	2,1	B	57B/E3	2,1,3	MB	-	2,1	B	-	2,1	M	26A/H2
BOT.	2,1,3	MB	57B/E3	2,1	M	-	2,1	M	60B/A7	2,1,3	MB	60B/B5	2,1,3	MB	60B/H5	2,1,3	MB	60B/G3	2,1	M	5A/G3
	6,5,4	BM	60B/G2	4,3	M	57B/G4	4,3	M	57B/D4	5,4	M	60B/B2	5,4	M	60B/C7	5,4	M	57B/D3	4,3	M	20B/D6
	8,7	M	60B/B3	6,5	M	-	6,5	M	6B/B2				7,6	M	57B/D3				6,5	M	20B/D1
							9,8,7	BM	-				10,9,8	BH	60B/G2				8,7	M	20B/D7
							11,10	M	60B/E5				12,11	M	6B/B1				10,9	M	60B/H7
																			12,11	M	60B/E7
COIL			60B/B4			60A/B8			60A/B7			60B/C4			60B/A2			60B/G3			5A/H6

RELAY

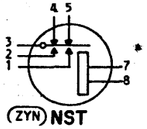
DESIG	VER6			VER7								
CODE	U188			U144								
OPTION												
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	60B/D5						
	12,11	M	60B/D1	10,9	M	18B/F1						
	10,9,8	BM	8A/E7	8,7	M	18B/F1						
	7,6	M	8D/F3	6,5	M	18B/F1						
	5,4	M	60B/D0	4,3	M	18B/F1						
	2,1,3	MB	a	2,1	M	18B/F1						
BOT.	2,1,3	MB	6B/B1	2,1	M	18B/F1						
	5,4	M	28B/D8	4,3	M	18B/F1						
	7,6	M	55B8	6,5	M	18B/F1						
	10,9,8	BM	57B/D4	8,7	M	18B/F1						
	12,11	M	5A/H5	10,9	M	18B/F1						
				12,11	M	18B/C1						
COIL			29C7			5A/H6						
			a 29C6 60B/E4									

RELAY

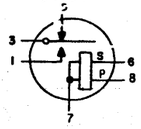
DESIG	NST1					
CODE	AJ503					
OPTION	ZYN					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM					
11	EBM					
10	EBM					
9	EBM	60B/D3				
8	EMB					
7	EBM	60B/C2				
6	EMB					
5	EMB					
4	EBM					
3	EBM					
2	EBM					
1	EBM					
COIL	18B/A3					

RELAY

(ZYM) NST, LST



(ZYN) NST



DESIG	LST	NST	NST
CODE	276B	276B	303F
OPTION		ZYM	ZYN
8	60B/D5	18B/C1	18B/C1
7	60B/D5	18B/C1	18B/C1
6	-	-	
5	60B/C1	60B/D3	
4	60B/C1	60B/D3	
3	60B/C1	60B/D3	
2	60B/C1	60B/D3	18B/B3
1	60B/C1	60B/D3	18B/B3

CAPACITOR

DESIG	LOC	CODE
SLK	60B/F2	439QA
SLKT	60B/F0	KS-13365,L8,OR L34,.001

LAMP

DESIG	LOC	CODE
MLVF	60B/H6	2W MI
MLVM	60B/E6	2W MI
SLK	60B/H1	2W MI

RESISTOR

DESIG	LOC	CODE
LST	60B/D4	~~T64~~, KS-20810,L1A,4020 ± 1%
NST	18B/C1	~~T64~~, KS-20810,L1A,4020 ± 1%
SLK1	60B/F2	~~T454~~ OR ~~221A~~,KS-20810,L1A,0.787 MEG
SLK2	60B/F1	KS-19150, L3, 0.1 MEG
SLK3	60B/F2	KS-19150, L1, 2000
SLKT	60B/E2	KS-8512, L6A, 3900

TUBE, ELECTRON

DESIG	LOC	CODE
SLKT	60B/F1	313CC

APP FIG. N

RELAY

DESIG	SDT								
CODE	U675								
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	2B/C8						
	10,9,8	BM	48B/E4						
	7,6	M	1B/H5						
	5,4	M	48B/A5						
	2,1,3	MB	1A/E3						
BOT.	2,1	M	53A/D4						
	4,3	M	53A/D4						
	6,5	M	6B/C2						
	9,8,7	BM	6A/G8						
	11,10	M	2B/F2						
COIL			2B/C8						

APP FIG. P

WIRING ONLY

APP FIG. Q

WIRING ONLY

APP FIG. R

RELAY

DESIG	P			P1			PDR			ROCP								
CODE	U802			U158			U1145			280Y								
OPTION																		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	4,3	M	49B/B3															
	2,1	M	-	3,2,1	BM	-	2,1	B	49A/C1	4,7,3	MB	49B/E2						
BOT.	2,1	M	49B/E2	2,1	M	49B/E2												
				4,3	M	49B/E2												
COIL			49A/E3			49B/E3			49B/C3			49A/B1						

INDUCTOR

DESIG	LOC	CODE
RO	49A/C0	274AH

RESISTOR

	DESIG	LOC	CODE
(KR,ZOK)	RO	49A/C4	KS-19152,L1,820

DRAWING ISSUE

51D	FNP
53D	CL
58D	
60D	
64A	
63D	
65A	
66A	
67D	
68A	
71D	
73D	
74A	
75B	
76D	
77A	
78D	
79A	
80D	

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C4

BELL TELEPHONE LABORATORIES INCORPORATED — SHEET SIZE 6S

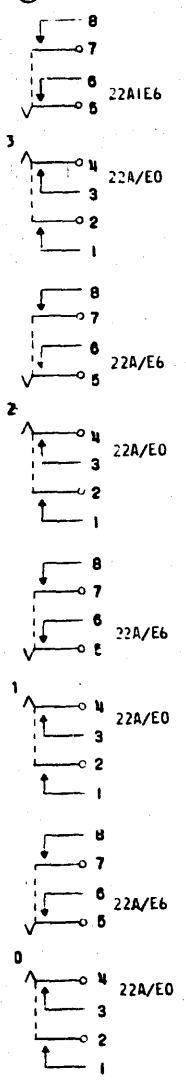
SD-25800-01-C4

STABILO

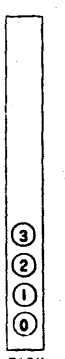
E-74EE-B (12-64)

APP FIG. S (MD)

KEY E1DK (A) FT

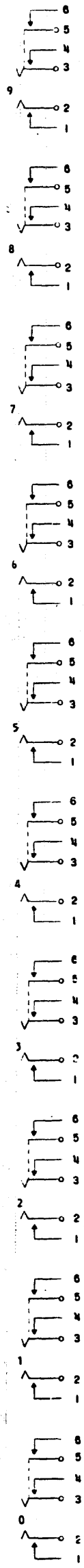


KEY TOP FT

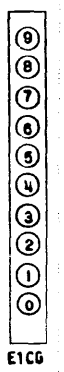


APP FIG. T (MD)

KEY E1CG FT

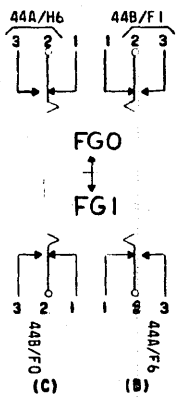


KEY TOP FT

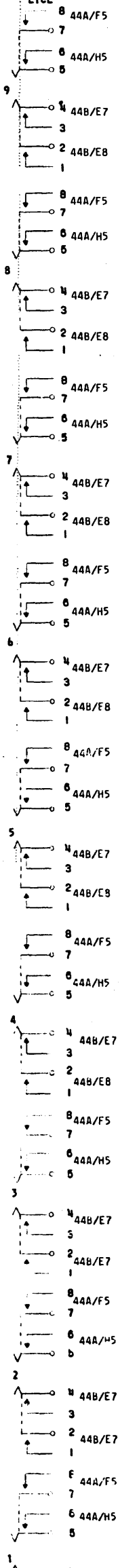


APP FIG. U (MD)

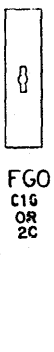
KEY CIG (D) OR KEY UNIT 2C (A)



KEY FS E1CL

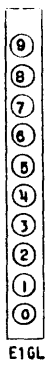


KEY TOP FGI



FGO C1G OR 2C

KEY TOP FS



MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 3S

SD-25800-01-C5

ISSUE 96B

DRAWING ISSUE

	DS	E	M
51D			
53D			
71C			
76D			

APP FIG. V

RELAY

DESIG	FSQ			FS1			FS2														
CODE	U144			U144			U144														
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	8A/D1	12,11	M	8A/D1	12,11	M	9A/D1												
	10,9	M	44A/G3	10,9	M	44A/F3	10,9	M	44A/C3												
	8,7	M	44A/G3	8,7	M	44A/F3	8,7	M	44A/C3												
	6,5	M	44A/G3	6,5	M	44A/F3	6,5	M	44A/C3												
	4,3	M	44A/G3	4,3	M	44A/F3	4,3	M	44A/C3												
	2,1	M	44A/G3	2,1	M	44A/F3	2,1	M	44A/C3												
BOT.	2,1	M	44A/G3	2,1	M	44A/F3	2,1	M	44A/C3												
	4,3	M	44A/G3	4,3	M	44A/F3	4,3	M	44A/C3												
	6,5	M	44A/G3	6,5	M	44A/F3	6,5	M	44A/C3												
	8,7	M	44A/G3	8,7	M	44A/F3	8,7	M	44A/C3												
	10,9	M	44A/G3	10,9	M	44A/F3	10,9	M	44A/C3												
	12,11	M	8A/D6	12,11	M	8A/D6	12,11	M	8A/D6												
COIL			44A/B3			44A/A3			44A/B3												

APP FIG. W (MFR DISC.)

RELAY

DESIG	KQSA			KQSG																	
CODE	U65			U65																	
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	47D6	12,11	M	4688															
	10,9	M	47C3	10,9	M	46G1															
	8,7	M	47C2	8,7	M	46G1															
	6,5	M	47C2	6.5	M	46F1															
	4,3	M	47C1	4,3	M	46E1															
	2,1	M	47C0	2,1	M	46E1															
BOT.	2,1	M	-	2,1	M	46A1															
	4,3	M	-	4,3	M	46B1															
	6,5	M	-	6,5	M	46B1															
	8,7	M	47E7	8,7	M	46C1															
	10,9	M	47E6	10,9	M	46D1															
	12,11	M	47E8	12,11	M	46A8															
COIL			47D5			47D6															

APP FIG. X

DESIG	KOSA	
CODE	AJ202	
OPTION		
	CONTACT ARR	LOC
24	M	
23	M	
22	M	47E9
21	M	47E7
20	M	47E8
19	M	46B8
18	M	46A8
17	M	47C3
16	M	47C2
15	M	47C2
14	M	47C1
13	M	47C0
12	M	46H1
11	M	46H1
10	M	46G1
9	M	46F1
8	M	46F1
7	M	46E1
6	M	46E1
5	M	46D1
4	M	46C1
3	M	46B1
2	M	46A1
1	M	46A1
COIL		47C5

ISSUE	99A
MASTER TEST CONTROL CIRCUIT	SD-25800-01-C6
BELL TELEPHONE LABORATORIES INCORPORATED	6S

SD-25800-01-C6

STABILO

PART OF APP FIG I

RELAY

DESIG	BT			DCT			DIS1			KR			KR1			LK2			MC		
CODE	U103			U1355			U532			U59			U59			U892			U81		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP										12,11	M	18/B8	12,11	M	71B1				12,11	M	11F0
										10,9	B	3A/A0	10,9	B	52B/C7				10,9	M	11E1
				9,8	M	5583				8,7	B	41B/B5	8,7	B	61B7	9,8	M	568/C0	8,7	M	1102
				7,6	M	5A/C1				6,5	B	68/C4	6,5	B	658/C4	7,6	M	56B/E0	6,5	M	1101
	5,4	M	56A/C2	5,4	M	57B/B0	5,4	M	56B/CJ	4,3	B	6A/E0	4,3	B	a	5,4	M	18/B4	4,3	M	1182
	3,2,1	BM	56A/A7	3,2,1	BM	57A/G7	3,2,1	BM	56B/A5	2,1	B	9C4	2,1	B	71D9	3,2,1	BM	57A/D4	2,1	M	1181
	3,2,1	BM	638/E6	2,1	B	41A/03	3,2,1	BM	55A3	2,1	B	56A/F8	2,1	B	59A9	2,1	B	55A3	2,1	M	1184
	5,4	M	5882	5,4,3	BM	7687	5,4	M	57A/D0	4,3	B	95A/H0	4,3	B	51A/F1	5,4,3	BM	5A/C3	4,3	M	1105
BOT.				7,6	M	578/C5				6,5	B	57A/D0	6,5	B	66C3	7,6	M	56B/A4	6,5	M	11E5
										8,7	B	64A0	8,7	B	65B/C6				8,7	M	67E7
										10,9	B	37A/B5	10,9	B	75G7				10,9	M	11F5
										12,11	M	58E1	12,11	M	62D0				12,11	M	a
COIL			56A/C2			55A3			56B/C1			18/B9			18/B9			56B/C0			10B/B6

a (ZRV) 5B/C3 (ZRW) 5A/E8

a (20) 18/H0 (ZLG) 9608

RELAY

DESIG	MC1			MC2			MC18			MFC			MFC			MFC1			MQ1		
CODE	U81			U144			U81			U57			U794			U88			U1317		
OPTION							GM			XN			XO								
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	568/E1	12,11	M	57A/A7	12,11	M	76C6				12,11	M	58A2	12,11	B	638/D5			
	10,9	M	56A/E6	10,9	M	96H8	10,9	M	76A0	10,9	M	58A2	10,9	M	--	10,9	B	508/G4			
	8,7	M	56B/E4	8,7	M	30E4	8,7	M	76E0	8,7	M	5A/B0	8,7	M	5A/B0	8,7	B	408/A6	9,8	M	579/A7
	6,5	M	56A/E4	6,5	M	a	6,5	M	76D6	6,5	M	a	6,5	M	a	6,5	B	108/A7	7,6	M	56A/E0
	4,3	M	56A/E2	4,3	M	39A/B0	4,3	M	628/G6	4,3	M	5A/C4	4,3	M	5A/C4	4,3	B	8C/C3	5,4	M	55C2
	2,1	M	56A/E0	2,1	M	b	2,1	M	76B6	2,1	M	-	2,1	M	-	2,1	B	65B/C4	3,2,1	BM	579/B7
	2,1	M	578/B8	2,1	M	538/G0	2,1	M	23A/B1	2,1	M	-	2,1	M	-	2,1	B	428/D0	2,1	B	576/F7
	4,3	M	56A/F7	4,3	M	538/B1	4,3	M	15B/E1	4,3	M	18/D9	4,3	M	18/D9	4,3	B	690/D2	5,4,3	BM	538/E3
POT.	6,5	M	118/C0	6,5	M	118/E4	6,5	M	58D7	6,5	M	5802	6,5	M	5802	6,5	B	108/G6	7,6	M	5582
	8,7	M	56A/F7	8,7	M	48/B3	8,7	M	42A/E6	8,7	M	68/B7	8,7	M	68/B7	8,7	B	7A/G8			
	10,9	M	48/B6	10,9	M	32E4	10,9	M	76H2	10,9	M	5A/C1	10,9	M	5A/C2	10,9	B	6A/G0			
	12,11	M	55A2	12,11	M	32F5	12,11	M	97G7				12,11	M	-	12,11	M	68/A1			
COIL			11A3			11B3			11E3			58A2			58A2			58D2			578/A7

a (ZZW) 11B/F6 (DO) 61A1

b (BY) 94F7 (ZPF) 1210C

a (ZRU) 5B/B5 (ZRW) 5A/C8

a (ZRU) 5B/B5 (ZRW) 5A/C8

RELAY

DESIG	MRL			MS			MS1			NTR			RBT1			REC			TC1		
CODE	U103			U7296			U238			U1375			U90			U300			U220		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							9,8	M	48/B2							9,8	M	57B/B7			
							7,6	M	96H9				7,6	M	56A/C0	7,6	M	56A/F7	6,5	M	56A/C8
	5,4	M	56B/C4	6,5,4	BM	58C0	5,4	M	7A/H6	5,4	M	55C2	5,4	M	56A/A7	5,4	M	57B/A7	4,3	M	5A/D4
	3,2,1	BM	56B/A6	3,2,1	BM	48/B1	3,2,1	BM	538/D0	3,2,1	BM	57A/G7	3,2,1	BM	57A/H7	3,2,1	BM	8C/B3	2,1	B	48/A3
	3,2,1	BM	58A1	2,1,3	MB	48/B3	3,2,1	BM	11B/D4	3,2,1	BM	-	2,1	M	-	2,1	B	57A/B7	3,2,1	BM	56A/A9
	5,4	M	68/A0				5,4	M	56A/F7	5,4	M	57B/F0	4,3	M	57B/F0	5,4,3	BM	57A/B7	5,4	M	58C1
BOT.							7,6	M	11B/D0				6,5	M	56A/E0	7,6	M	20A/G1			
COIL			56B/C4			48/A2			48/B2			64E1			56A/C0			57B/C7			56A/C7

RELAY

DESIG	TRL			TRL1			TS			TS											
CODE	U103			U1235			U1149			U591											
OPTION							XG			XH											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP										12,11	M	73A0									
										10,9	M	8A/H5									
							8,7	M	58A3	8,7	M	58A3									
	5,4	M	56A/C5	4,3	M	56A/C6	6,5	M	18/D9	6,5	M	18/D9									
	3,2,1	BM	56A/A8	2,1	M	56A/A9	4,3	M	108/B7	4,3	M	108/B7									
	3,2,1	BM	638/C6	2,1	M	56A/C8	2,1	B	106F7	2,1	B	106F7									
	5,4	M	5882				5,4,3	BM	68B7	2,1	M	8C/B0									
BOT.							7,6	M	9A4	4,3	M	68/D4									
										6,5	M	57A/D6									
										8,7	M	444/A1									
										10,9	M	a									
										12,11	M	9A4									
COIL			56A/C4			56A/C6			8C/A2			8C/A2									

a (CU) 90E1 (ZYX) 120D2

RELAY

DESIG	DIS2			MC23						MC24											DESIG
CODE	AJ503			AF24						AF24											CODE
OPTION	ZQV			ZQR						ZJC											OPTION
	CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC	
12	EBM	58A0		M	5560					M											12
11	EBM			M	42B/C4					M											11
10	EBM			M	42B/C3					M											10
9	EBM			M	88/D6					M											9
8	EBM			M	a					M	123D1										8
7	EBM			M	f					M											7
6	EBM			M	e					M											6
5	EBM			M	d					M											5
4	EBM			M	c					M											4
3	EBM			M	b					M	123A0										3
2	EBM			M	117C7					M	55A2										2
1	EBM			M	55A8					M	115G2										1
COIL		568/C2			11A/C4						11A/B6										COIL

a (ZYX) 120D3 (ZOA) 42B/C4

b (ZPB) 55G3 (ZYX) 120D2

c (ZMB) 48/E6 (ZYX) 120D2

d (ZYX) 120D2 (ZYV) 97E3

e (77) 97C7 (ZYX) 120D2

f (77) 97F7 (ZYX) 120D2

RELAY

DESIG	KR3			MC22			IA01			N2			IT1			MKT4			MFC2			ULLT			KTN6			TM2			DESIG
CODE	AJ12			AF24			AJ15			AJ15			AJ15			AJ15			AJ15			AJ12			AF24			AJ5			CODE
OPTION	ZZK			ZVG			ZUE			ZUA			ZTG			ZTF			ZTK			ZRT			ZRA			ZRB			OPTION
	CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		
12	EBM	58E1		M	115E7		EBM			EBM			EBM			EBM			EBM			EBM			M	398/C7		EBM			12
11	EBM	54A/B6		M	47E9		EBM			EBM			EBM			EBM			EBM			EBM	5A/H3		M	398/C4		EBM			11
10	EBM	109A		M	97G3		EBM			EBM			EBM			EBM			EBM			EBM	22A/G7		M	348/C4		EBM			10
9	EBM	110A4		M	115F1		EBM			EBM			EBM			EBM			EBM			EBM	22B/G8		M			EBM			9
8	EBM	108F2		M	40A/G2		EMB			EMB			EMB			EMB			EMB			EBM	27B0		M			EBM			8
7	EBM	11B/G9		M	958/C5		EBM			EBM	48/D6		EBM			EBM			EBM			EBM	28B/A7		M	398/D7		EBM			7
6	EBM	107F5		M	40A/H2		EMB			EMB	51C/G3		EMB			EMB			EMB	53C/F5		EBM	33B/H3		M	398/D5		EBM			6
5	EBM	106F3		M	115E7		EMB			EMB	408/A4		EMB			EMB			EMB	102B2		EBM	30A6		M	398/C2		EBM			5
4	EBM	117H8		M	54A/D2		EBM			EBM	118/D6		EBM			EBM	208/E2		EBM	98N6		EBM	288/E9		M	398/D0		EBM			4
3	EBM	18/A7		M	54A/E1		EBM			EBM	10585		EBM			EBM	11184		EBM			EBM			M	398/G4		EBM			3
2	EBM	104E0		M	116C0		EBM			EBM	5A/B8		EBM			EBM			EBM	18/B4		EBM			M	398/G2		EBM			2
1	EBM	98F3		M	54A/E1		EBM	528/E5		EBM	41A/F2		EBM	10A/E9		EBM	10A/E9		EBM	1168		EBM			M	398/H1		EBM	39A/F4		1
COIL		58E1			11A6			48/E5			7A/B7			4A/C1			18/C7			5A03			48/H2			39A/D4			358/C6		COIL

DRAWING ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C7A

BELL TELEPHONE LABORATORIES INCORPORATED SHEET 65

SD-25800-01-C7A

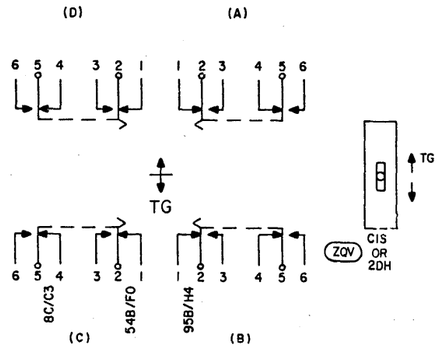
PART OF APP FIG 1

DIODE

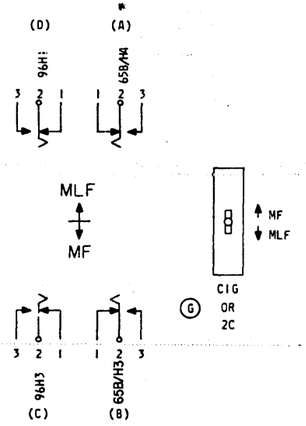
DESIG	LOC	CODE
ZQV DIS2	56B/D2	446F

KEY OR KEY UNIT — KEY TOP

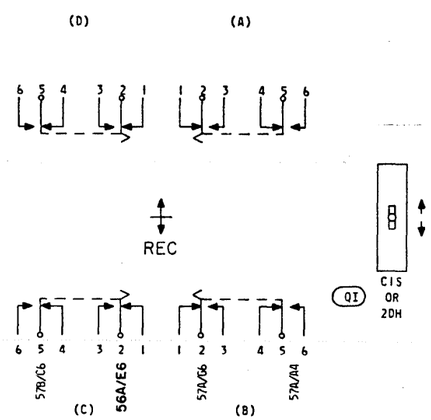
ZQV CIS OR 2DH



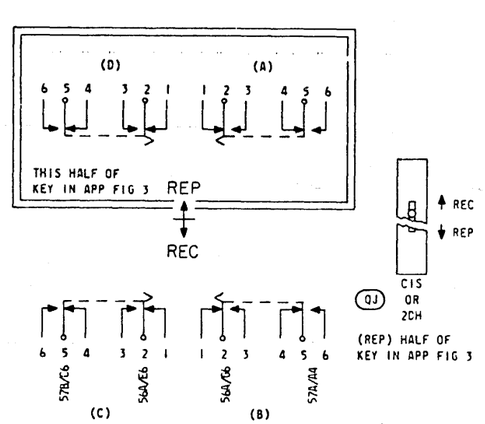
G — KEY CIG OR KEY UNIT 2C — KEY TOP



QI — KEY CIS OR KEY UNIT 2DH — KEY TOP

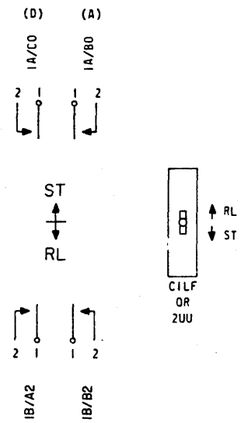


QJ — KEY CIS OR KEY UNIT 2DH — KEY TOP

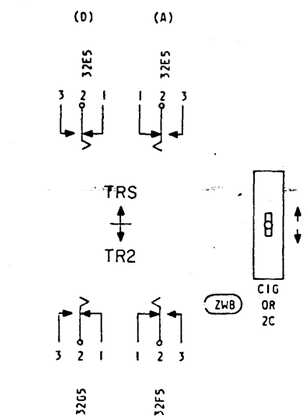


(REP) HALF OF KEY IN APP FIG 3

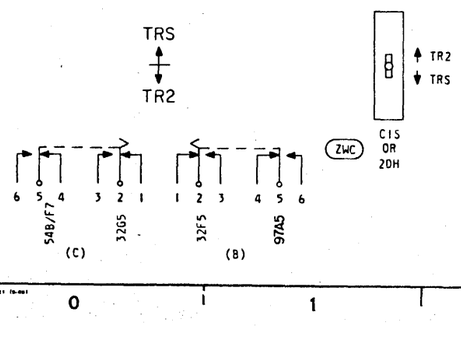
KEY CILF OR KEY UNIT 2UU — KEY TOP



ZWB — KEY CIG OR KEY UNIT 2C — KEY TOP



ZWC — KEY CIS OR KEY UNIT 2DH — KEY TOP



LAMP

DESIG	LOC	CODE
BT-OF	56A/A7	2W MI
DIS1	56B/A5	2W MI
LK2	56B/A4	2W MI
MRL	56B/A5	2W MI
RBT1	56A/A7	2W MI
SP	9A5	13J (RES)
TC1	56A/A9	2W MI
TRL	56A/A8	2W MI
TRL1	56A/A9	2W MI

NETWORK

DESIG	LOC	CODE
RL OCT	55A3	185A

RESISTOR

DESIG	LOC	CODE
MTP	7A/G8	18AG

DRAWING ISSUE

67D	PEC
68A	PEC
75B	
76D	
78D	
80D	
83A	

ISSUE 99A

MASTER TEST CONTROL C! (2) SD-25800-01-C7B

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-25800-01-C7B

APP FIG. 2

RELAY

DESIG	DT			INC			INC			IR			LHC			MC3			MC4		
CODE	U1288			U136			U65			U601			U721			U81			U81		
OPTION				RS			RT			XI			VU								
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							12,11	M								12,11	M	65A/B2	12,11	M	20B/D0
	11,10	M	2A/C1	10,9	M	2A/C4	10,9	M	2A/C4							10,9	M	65A/B6	10,9	M	20B/D2
	9,8,7	BM	7A/G6	8,7	M	31G3	8,7	M	31G3	9,8	M	2B/C4				8,7	M	31D2	8,7	M	20A/D2
	6,5	M	20B/E1	6,5	M	12G5	6,5	M	12G5	7,6	M	35A/H6				6,5	M	65B/H7	6,5	M	20A/D1
	4,3	M	a	4,3	M	20A/H3	4,3	M	20A/H3	5,4	M	4A/F0	6,5,4	BM	-	4,3	M	53C/F3	4,3	M	26A/E4
	2,1	M	4A/A0	2,1	M	4A/B3	2,1	M	1A/B3	3,2,1	BM	a	3,2,1	BM	52B/G2	2,1	M	53A/F8	2,1	M	20A/D3
BOT.	2,1,3	MB	58A2	2,1	M	31B2	2,1	M	31B2	2,1	B	7A/G7	3,2,1	BM	-	2,1	M	57B/C6	2,1	M	31G4
	5,4	M	4B/A4	4,3	M	4787	4,3	M	4787	5,4,3	BM	93B0	6,5,4	BM	-	4,3	M	18B/F9	4,3	M	24B/G2
	7,6	M	65B/B3	6,5	M	24B/G1	6,5	M	24G6	7,6	M	68/B8				6,5	M	b	6,5	M	26A/G0
	9,8	M	26A/H1	8,7	M	52B/A7	8,7	M	52B/A7							8,7	M	18B/C8	8,7	M	31C2
	11,10	M	65B/B6				10,9	M	75E6							10,9	M	47E5	10,9	M	42A/E3
							12,11	M	75F6							12,11	M	a	12,11	M	12F7
COIL			2A/C1			2A/C4			2A/C4			2B/C4			52B/B2			11C3			11D3

a (ZZW) 5IB/C5; (ZRW) 5A/C5

a (ZRU) 5B/G1; (ZRW) 5A/G9

a (ZYZ) 33A/E1; (NQ) 34B/F5

b (SK) 53C/E5; (ZPF) 12IC6

RELAY

DESIG	MKT1			MKT1			MKT2			OR			ORIG			SDR			SDRA		
CODE	U1363			U794			U588			U982			U65			U65			U338		
OPTION	UI			UJ															TZ		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	53A/D7	12,11	M	61H3	13,12	M	2B/B2	12,11	M	2A/C3	12,11	M	2B/C3	12,11	M	4B/G0
	10,9	M	18B/E9	10,9	M	18B/E9	10,9	M	1185	11,10	M	20B/E2	10,9	M	20A/G0	10,9	M	54B/F1	10,9	M	57A/D3
	8,7	M	a	8,7	M	a	8,7	M	a	9,8	M	9F0	8,7	M	26A/F5	8,7	M	12F7	8,7	M	8CVH1
	6,5	M	68/F4	6,5	M	68/F4	6,5	M	40B/F0	7,6	M	26A/H0	6,5	M	12G5	6,5	M	47C9	6,5	M	37B/G3
	4,3	M	52B/C1	4,3	M	52B/C1	4,3	M	65A/B5	5,4	M	40B/E0	4,3	M	57A/C3	4,3	M	40B/E0	4,3	B	95A/G3
	2,1	M	53A/C7	2,1	B	71A1	2,1	B	10A/C3	1,2,3	BM	a	2,1	M	4A/C3	2,1	M	44/C0	2,1	B	95B/C0
BOT.	2,1	B	1A/B2	2,1	B	1A/B2	2,1	B	52B/C6	2,1,3	MB	58A1	2,1	M		2,1	M	26A/F4	2,1	B	-
	4,3	M	40B/B3	4,3	M	40B/B4	4,3	M	18/B8	5,4	M	4B/A4	4,3	M	4787	4,3	M	20A/D1	4,3	B	37B/G3
	6,5	M	8A/H6	6,5	M	8D/H2	6,5	M	9F0	7,6	M	65A/E3	6,5	M	31F2	6,5	M	3101	6,5	M	4A/F1
	8,7	M	4B/C1	8,7	M	4B/C1	8,7	M	41C/E1	10,9,8	BM	7A/G6	8,7	M	48/F1	8,7	M	33A/G1	8,7	M	33A/G1
				10,9	M	68/H7	10,9	M	52B/C3	12,11	M	4A/B0	10,9	M	75E6	10,9	M	65B/H5	10,9	M	44B/D1
				12,11	M	75A6	12,11	M	63B/B2				12,11	M	75F6	12,11	M	68/C1	12,11	M	44B/D5
COIL			2A/B1			2A/B1			48/C2			29/B2			2A/C3			28/C3			48/F2

a (ZIH) 8A/E9; (ZRW) 5A/D4

a (ZIF) 8A/E9; (ZRW) 5A/D4

a (ZRU) 5B/H4; (ZRW) 5A/F8

a (ZRU) 5B/HI; (ZRW) 5A/C5

RELAY

DESIG	SRT1			SRT2			ST														
CODE	U1392			U238			U624														
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
	8,7	M	68/B8	9,8	M	a															
	6,5	M	68/F7	7,6	M	68/G5															
	4,3	M	48A/D5	5,4	M	18/C9															
	2,1	M	6A/G6	3,2,1	BM	42A/C1	2,1	M	2A/H1												
BOT.	3,2,1	BM	1A/B3	3,2,1	BM	42A/C0	2,1	M	2B/E8												
	5,4	M	65B/B2	5,4	M	52B/F4															
	7,6	M	95A/G5	7,6	M	56A/D5															
COIL			2B/A2			65A/B3			1A/B9												

a (ZRU) 5B/HO; (ZRW) 5A/G8

RELAY

DESIG						
CODE						
OPTION						
	CONT ARR	LOC	CONT ARR	LOC		
12						
11						
10						
9						
8						
7						
6						
5						
4						
3						
2						
1						
COIL						

DIODE

DESIG		LOC	CODE
(ZDT)	KAMA	8R/E7	533F
(ZIB)	SDRA	3ID9	446F

LAMP

DESIG		LOC	CODE
(ZVQ)	DT	4A/A1	
	INC	4A/A4	
(ZVS)	IR	4A/F1	
(ZVQ)	OR	4A/B1	
	ORIG	4A/B9	
	SDR	4A/C1	

2# MI

RESISTOR

DESIG	LOC	CODE
MS	4B/A5	18AG

DRAWING ISSUE

51D	PNP Mtd ARM
53D	CL YMA AMD
58D	CMC ARM
61A	ASL ARM
62D	ASL ARM
63D	TJD XMB ARM
65D	ASL ARM AC ARM
66A	ASL ARM AC ARM
67D	SLK
68A	ALN
70A	CH
71D	BJF
73D	
74A	
75B	
76D	
79D	
79A	
80D	
81A	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C8

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

E-7482-B-3 (12-61)

APP FIG. 3

RELAY

DESIG	CKG	IAO	IAO	IT	IT	ITDO	ITNP
CODE	U460	U65	U591	U1261	U1031	U65	U1181
OPTION	TQ	OH	OI	ZZL	ZZM		

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
				12,11	M	3A/D4	12,11	M	3A/D4				13,12	M		12,11	M	3A/D4			
				10,9	M	20A/F3	10,9	M	20A/F3				11,10	M		10,9	M	20A/F3	12,11	M	3A/D7
TOP				8,7	M	12G0	8,7	M	12A3	10,9	M	56A/F3	9,8	M	56A/F3	8,7	M	12H5	10,9,8	BM	a
				6,5	M	12G2	6,5	M	12B0	8,7,6	BM	79H5	7,6	M	79H5	6,5	M	47B8	7,6	M	11B/F5
	5,4	M	7B/G1	4,3	M	40B/C0	4,3	M	40B/C0	5,4,3	BM	53C/D5	5,4	M	61F8	4,3	M	40B/C0	5,4	M	95B/F2
	3,2,1	BM		2,1	M	4A/C3	2,1	B	78B2	2,1	B	5A/C3	2,1,3	MB	53C/D5	2,1	M	4A/D3	2,1,3	MB	7A/G4
	3,2,1	BM		2,1	M	78G7	2,1	M	78H7	3,2,1	BM	38D5	2,1,3	MB	5A/C3	2,1	M		2,1	M	4A/C0
BOT.	5,4	M		4,3	M	47B8	4,3	M	47B8	5,4	M	4A/D0	5,4	M	4A/D0	4,3	M	12G3	4,3	M	7A/E1
				6,5	M	31E2	6,5	M	31E2	7,6	M	5A/C3	7,6	M	5A/C3	6,5	M	31E2	6,5	M	12G3
				8,7	M	4B/E4	8,7	M	4B/E4	9,8	M	56A/E3	9,8	M	56A/E3	8,7	M	54B/F1	8,7	B	11B2
				10,9	M	95B/F2	10,9	M	95B/F2				11,10	M	38D5	10,9	M	95B/F3	10,9	M	12G1
				12,11	M		12,11	M	4A/C3				13,12	M		12,11	M				
COIL			11B/E5			3A/D4			3A/D4			4A/D1			4A/D1			3A/D4			3A/D7 5B/F0 a 8D/H0

RELAY

DESIG	ITP	LTI	LTI	LV	LVI	LVI	LVI
CODE	U65	U1317	U953	U1181	U378	U1354	U648
OPTION	ZO	DF	DG		UI	SG	SH

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
	12,11	M	3A/D5				13,12	M	89E1												
	10,9	M	20A/F4				11,10	M	94A7	12,11	M	3B/C1									
TOP	8,7	M	12G1	9,8	M	48C/F2	9,8	M	48C/F2	10,9,8	BM	57B/E5							11,10	M	68/C4
	6,5	M	47C8	7,6	M	6B/D4	7,6	M	6B/D4	7,6	M	68/B4							9,8,7	BM	94D6
	4,3	M	40B/D0	5,4	M	48C/D5	5,4	M	48C/D5	5,4	M	4A/E0	5,4	M	52B/G4	5,4	M	52B/G4	6,5,4	BM	52B/G4
	2,1	M	4A/H0	3,2,1	BM	65A/B5	1,2,3	BM	65A/B5	2,1,3	MB	6A/E1	3,2,1	BM	68/C4	3,2,1	BM	68/C4	2,1,3	MB	
	2,1	M		2,1	B	1A/B7	2,1,3	MB	1A/C8	2,1	M	12F6	3,2,1	BM	1A/B6	3,2,1	BM	1A/B6	2,1	B	1A/B6
BOT.	4,3	M	12G3	5,4,3	BM	48C/F0	5,4	B		4,3	M	29C1				5,4	M	33A/H2	5,4,3	BM	94D5
	6,5	M	31F2	7,6	M	48C/G1	7,6	M	48C/G1	6,5	M	31A7							7,6	M	33A/H2
	8,7	M					10,9,8	BM	94F6	8,7	B								10,9,8	MM	57A/F3
	10,9	M	95B/F4				12,11	M	48C/F0	10,9	M	a									
	12,11	M																			
COIL			3A/D5			3B/B4			3B/B4			3B/C1			3B/B1			3B/B1			3B/B1

a ZRU 5B/C2
ZRW 5A/G8

RELAY

DESIG	MCS	MISC	N	NI	NI	OGT	SB
CODE	U81	U65	U75	U809	U64	U65	U286
OPTION				YR	YS		J

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
	12,11	M	29B3	12,11	M	3A/D3							12,11	M	68/F8	12,11	M	3A/D1			
	10,9	M	52A/A3	10,9	M	20B/G0				10,9	M	68/F8	10,9	M	b	10,9	M	20A/E2			
TOP	8,7	M	54B/D3	8,7	M	47B7				8,7	M	40B/B2	8,7	M	40B/B2	8,7	M	12G2			
	6,5	M	5A/H3	6,5	M	40B/B0				6,5	M	58B3	6,5	M	5883	6,5	M	4787			
	4,3	M	74D6	4,3	M	57A/C3				4,3	M	a	4,3	M	a	4,3	M	40B/C0	5,4	M	42A/B1
	2,1	M	54B/C3	2,1	M	4A/E3	3,2,1	BM	a	2,1	M	68/B0	2,1	M	68/B0	2,1	M	4A/F3	3,2,1	BM	63B/F6
	2,1	M	4B/C7	2,1	M	12H5	3,2,1	BM	18B/E0	3,2,1	BM	6A/C0	2,1	M	6A/C0	2,1	M	54B/F1	2,1	M	57A/E5
	4,3	M	a	4,3	M	12G2				5,4	M	95A/H1	4,3	M	95A/H1	4,3	M	54B/G3	4,3	M	42A/B3
BOT	6,5	M	54B/C1	6,5	M	31E1				7,6	M	7A/G7	6,5	M	7A/G7	6,5	M	31E1			
	8,7	M	12G2	8,7	M					9,8	M	56A/E8	8,7	M	56A/E8	8,7	M	12H4			
	10,9	M	b	10,9	M	95B/F1							10,9	M	7405	10,9	M	95B/F0			
	12,11	M	31A8	12,11	M	94A1							12,11	M	26B/H7	12,11	M	78G7			
COIL			11E3			3A/D3			6A/G5			6B/C8			6B/C8			3A/D1			42A/B1

a ZYQ 12G4
ZZX 92F3

b ZYU 12G0
BP 54A/D4

a 3A/A1
6B/C6

a TW 6A/D8
DO 61E8

a TW 6A/D8
DO 61E8

b ZRU 5B/B5
ZRW 5A/C8

RELAY

DESIG	TB	TKT	TKT	TKTI	TKTI	TKT2	TTR
CODE	U286	U378	U1051	U57	U81	U238	U260
OPTION		UI	UJ	FE	FF		TQ

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
										10,9	M	11A5	10,9	M	11A5						
TOP							9,8	M	61G2	8,7	M	68/B8	8,7	M	68/B8	9,8	M	18/C8			
							7,6	M	95A/G1	6,5	M	29H8	6,5	M	29H8	7,6	M	a			
	5,4	M	42A/B0	5,4	M	3A/A1	5,4	M	3A/A1	4,3	M	95A/G2	4,3	M	95A/G2	5,4	M	68/G5	5,4	M	
	3,2,1	BM	63B/E6	3,2,1	BM	4B/D1	3,2,1	BM	4B/D1	2,1	M	52B/G4	2,1	M	52B/G4	3,2,1	BM	42A/C1	3,2,1	BM	
	2,1	M	57A/F5	3,2,1	BM	1A/B5	2,1	M	1A/B5	2,1	M	4B/F4	2,1	M	4B/F4	3,2,1	BM	42A/C2	2,1	B	11B/F5
BOT.	4,3	M	42A/B3				5,4,3	BM	1A/C5	4,3	M	a	4,3	M	a	5,2	M	6A/H5	4,3	M	56A/E3
							7,6	M	61H3	6,5	M	95B/G4	6,5	M	95B/G4	7,6	M	69A/B5			
										8,7	M	4B/B6	8,7	M	4B/C6						
										10,9	M	6A/G6	10,9	M	6A/G6						
													12,11	M	69B/F1						
COIL			42A/B0			3A/B1			3A/B1			4B/D2			4B/D2			4B/B7			56A/C3

a ZRU 5B/F0
ZRW 5A/F8

a ZRU 5B/F0
ZRW 5A/F8

a ZO 63B/E8
ZZX 92E6

RELAY

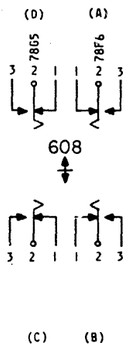
DESIG	REPR	REPS	REPT	AICT	AISM
CODE	AK30	AK30	AK30	AK30	AK30
OPTION	ZPX	ZPX	ZZH	ZJD	ZJE

	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	1B/B6			M	1B/C6				
11	EBM	3A/B0			EBM					
10	EBM				EBM					
9	EMB				EMB					
8	EMB				EMB					
7										
6										
5			EMB	6B/A7			EMB		EMB	
4			EMB	3A/C0			EMB	57A/G2	EMB	
3			EBM	3A/E1			EBM	8D/D8	EBM	
2			EBM	1B/A6			EBM	3004	EBM	57A/F1
1			M	1B/B7			M		M	11503
COIL		1B/A6		3A/B0		6B/A7		95B/B8		11SF2

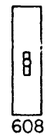
DIODE

OPT	DESIG	LOC	CODE
ZNX	LAMC	4B/D7	446F

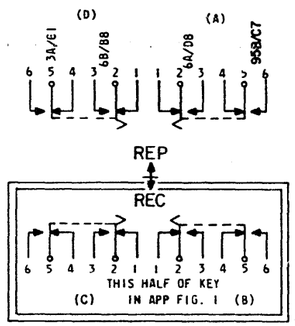
QP
KEY OR KEY UNIT
CIG 2C



QP
KEYTOP



QJ
KEY OR KEY UNIT
CIS 2DH



QJ
KEYTOP

LAMP

	DESIG	LOC	CODE
ZVR	IAO	4A/C1	
	ITDO	4A/D4	
	ITNP	4A/D1	
ZO	ITP	4A/H1	
ZVR	LT	4A/B9	2FM1
	MISC	4A/E4	
	MLV	4A/E1	
	OGT	4A/E4	
J	SB	42A/A3	
	TB	42A/A2	

RESISTOR

DESIG	LOC	CODE
ZQN 4L	6A/D7	18CN
N	6A/G8	18AF
ZNP N1	6B/C9	18AC
S	52A/A3	18R

DRAWING ISSUE

75B	B
76D	D
78D	D
80D	D

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C9

BELL TELEPHONE LABORATORIES INCORPORATED 6S

E-7422-B-5(12-62)

PART OF APP FIG. 4

RELAY																							
DESIG	BB			K			K1			K2			KA			KB			KC				
CODE	U81			U81			U476			U476			U238			U238			U238				
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC		
TOP	12,11	M	14B/G2	12,11	M	13B/C3																	
	10,9	M	14B/G2	10,9	M	13B/C4																	
	8,7	M	14B/G2	8,7	M	13B/C5							9,8	M	14C0	9,8	M	14C3	9,8	M	14C5		
	6,5	M	14B/G2	6,5	M	13B/C5							7,6	M	14C0	7,6	M	14C3	7,6	M	14C5		
	4,3	M	14B/G2	4,3	M	13B/C5							5,4	M	14C0	5,4	M	14C3	5,4	M	14C5		
	2,1	M	14C/G2	2,1	M	13B/C6	3,2,1	BM	15B/D4	3,2,1	BM	13A/H5	3,2,1	BM	14B5	3,2,1	BM	14B6	3,2,1	BM	14B8		
BOT.	2,1	M	14B/G2	2,1	M	13B/C6							3,2,1	BM	13A/H2	3,2,1	BM	13A/H3	3,2,1	BM	13A/G4		
	4,3	M	14B/G2	4,3	M	13B/C7							5,4	M	14C0	5,4	M	14C3	5,4	M	14C5		
	6,5	M	13A/C3	6,5	M	13B/C7							7,6	M	14C0	7,6	M	14C3	7,6	M	14C5		
	8,7	M	-	8,7	M	13B/C8																	
	10,9	M	-	10,9	M	13B/C8																	
	12,11	M	-	12,11	M	13A/C0																	
COIL			12A5			12A7			13A/B5			13A/H5			13B/C3			13B/C4			13B/C5		

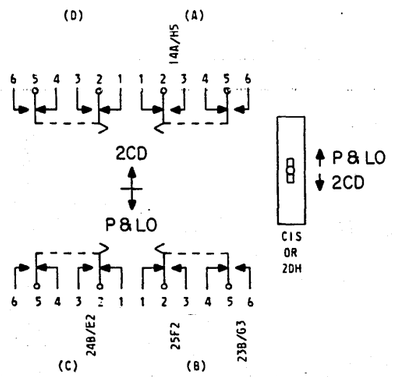
RELAY																							
DESIG	KD			KE			KF			KG			KH			KJ			KK				
CODE	U119			U119			U119			U119			U119			U119			U119				
OPTION				Z			Y			X			W			V			U				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC		
TOP																							
	7,6	M	14C7	7,6	M	15C0	7,6	M	15C4	7,6	M	15C5	7,6	M	15C6	7,6	M	15C7	7,6	M	15C7		
	5,4	M	14C7	5,4	M	15C0	5,4	M	15C4	5,4	M	15C5	5,4	M	15C6	5,4	M	15C7	5,4	M	15C7		
	3,2,1	BM	15C1	3,2,1	BM	15C4	3,2,1	BM	15C5	3,2,1	BM	15C6	3,2,1	BM	15C7	3,2,1	BM	15C8	3,2,1	BM	15B/C1		
BOT.	2,1	M	14C7	2,1	M	15C0	2,1	M	15C4	2,1	M	15C5	2,1	M	15C6	2,1	M	15C7	2,1	M	15C7		
	4,3	M	14C7	4,3	M	15C0	4,3	M	15C4	4,3	M	15C5	4,3	M	15C6	4,3	M	15C7	4,3	M	15C7		
	6,5	M	14C7	6,5	M	15C0	6,5	M	15C4	6,5	M	15C5	6,5	M	15C6	6,5	M	15C7	6,5	M	15C7		
COIL			13B/C5			13B/C5			13B/C6			13B/C6			13B/C7			13B/C7			13B/C8		

RELAY																							
DESIG	KL			OTL5			TTL			TTL1			TTL2			TM			KK				
CODE	U119			U144			U1301			U81			U81			U177			U101				
OPTION	T			LQ												LQ			FG				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC		
TOP				12,11	M	22A/H1				12,11	M	14B/H0	12,11	M	14B/G2								
				10,9	M	22A/H1				10,9	M	14B/H0	10,9	M	14B/G2								
				8,7	M	22B/H1				8,7	M	14B/H0	8,7	M	14B/G2				9,8	M	13B/C8		
	7,6	M	15B/D0	6,5	M	22B/H1	6,5	M	28B/H0	6,5	M	14B/H0	6,5	M	14B/G2	9,8,7	BM	20A/D8	7,6	M	15C7		
	5,4	M	15B/D0	4,3	M	23A/G5	4,3	M	12F4	4,3	M	14B/H0	4,3	M	14B/G2	6,5,4	BM	20A/C5	5,4	M	15C7		
	3,2,1	BM	15B/C3	2,1	M	23A/G5	2,1	M	12G1	2,1	M	14B/H0	2,1	M	14B/G2	3,2,1	BM	39A/E3	3,2,1	BM	15B/C1		
BOT.	7,1	M	15B/D0	2,1	M	24A/G1	2,1	M	13B/C3	2,1	M	14B/H0	2,1	M	14B/G2	3,2,1	BM	37B/D5	2,1	M	15C7		
	4,3	M	15B/D0	4,3	M	24A/G1	4,3	M	13B/C4	4,3	M	14B/H0	4,3	M	14B/G2	6,5,4	BM	74D3	4,3	M	15C7		
	6,5	M	15B/D0	6,5	M	25G0	6,5	M	13B/C4	6,5	M	13A/C1	6,5	M	13A/C1	9,8,7	BM	37B/D4	6,5	M	15C7		
				8,7	M	26A/E6				8,7	M	28B/H0	8,7	M	-				8,7	M	-		
				10,9	M	-				10,9	M	-	10,9	M	-								
				12,11	M	-				12,11	M	-	12,11	M	-								
COIL			13B/C8			20A/B8			12F2			12A0			12A4			95B/C6			13B/C8		

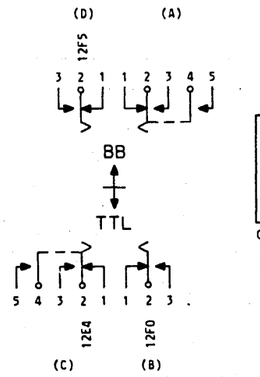
RELAY																							
DESIG																							
CODE																							
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC											
TOP																							
BOT.																							
COIL																							

RELAY																							
DESIG	K3			KM																			
CODE	AJ12			AJ84																			
OPTION	Z50			Z50																			
	CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC		CONT ARR	LOC					
12	EBM																						
11	EBM																						
10	EBM			EBM																			
9	EBM			M	15B/D3																		
8	EBM			EBM																			
7	EBM			M	15B/D3																		
6	EBM			EBM																			
5	EBM			M	15B/D3																		
4	EBM			EBM	15B/D3																		
3	EBM			M	15B/D3																		
2	EBM			M	15B/D3																		
1	EBM	13B/C9																					
COIL		13A/B0			13B/C9																		

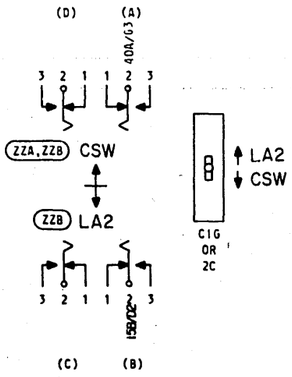
KEY OR KEY UNIT (JF) CIS 2DH — KEY TOP



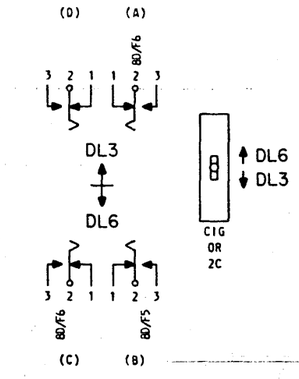
KEY OR KEY UNIT CIJG 2AP — KEY TOP



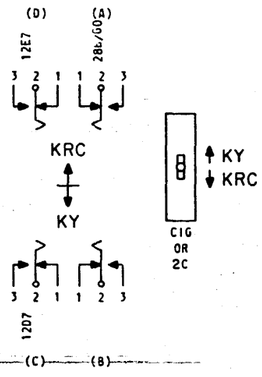
KEY OR KEY UNIT CIG 2C — KEY TOP



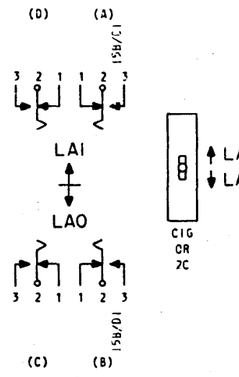
KEY OR KEY UNIT (MH) CIG 2C — KEY TOP



KEY OR KEY UNIT CIG 2C — KEY TOP



KEY OR KEY UNIT (ZZC) CIG 2C — KEY TOP



DRAWING ISSUE		
51D	PNR	
52A	JAS	
53D	PH	
56D	PH	
58D	PH	
60D	PH	
61A	PFS	
62D	PFS	
63D	PFS	
64A	PFS	
68A	JMT	
71D	RJF	
73D		
74A		
78D		
78D		
79A		

ISSUE 99A

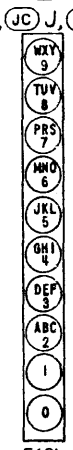
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C10

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF APP FIG. 4

KEY E1CL	(KX) A	(KX) B	(KX) C	(KX) D	(KY) E	(KZ) F	(JA) G	(JB) H	(JC) J	(JD) K	(JE) L
8	14F2	14A/H3	14A/H4	14A/H7	15F2	15E3	15E4	15E5	15E6	15E7	15B/F2
7											
6	14F1	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
WXY 9 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F2	14A/H3	14A/H4	14A/H7	15F2	15E3	15E4	15E5	15E6	15E7	15B/F2
7											
6	14A/F0	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
TUV 8 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F2	14A/H3	14A/H4	14A/H7	15G2	15E3	15E4	15E5	15E6	15E7	15B/G2
7											
6	14F0	14A/H3	14A/H4	14A/H7	15F0	15E3	15E4	15E5	15G6	15E7	15B/F0
PRS 7 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F1	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
7											
6	14F1	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
MNO 6 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F1	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
7											
6	14A/F0	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
JKL 5 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
9	14F1	14A/H3	14A/H4	14A/H7	15G2	15E3	15E4	15E4	15E6	15E7	15B/G1
7											
6	14F0	14A/H3	14A/H4	14A/H7	15F0	15E3	15E4	15E5	15E6	15E7	15B/F0
GHI 4 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F1	14A/H3	14A/H4	14A/H7	15G1	15E3	15E4	15E5	15E6	15E7	15B/F2
7											
6	14A/F0	14A/H3	14A/H4	14A/H7	15F1	15E3	15E4	15E5	15E6	15E7	15B/F1
DEF 3 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F1	14A/H3	14A/H4	14A/H7	15G1	15E3	15E4	15E5	15E6	15E7	15B/G1
7											
6	14F0	14A/H3	14A/H4	14A/H7	15F0	15E3	15E4	15E5	15E6	15E7	15B/F0
ABC 2 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14A/F0	14A/H3	14A/H4	14A/H7	15G1	15E3	15E4	15E5	15E6	15E7	15B/G1
7											
6	14F0	14A/H3	14A/H4	14A/H7	15F0	15E3	15E4	15E5	15E6	15C7	15B/G0
1 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/F5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											
8	14F2	14A/H3	14A/H4	14A/H7	15F2	15E3	15E4	15E5	15E6	15E7	15B/F2
7											
6	14F1	14A/H3	14A/H4	14A/H7	15F2	15E3	15E4	15E5	15E6	15E7	15B/F1
0 5											
4	13B/D3	13B/D4	13B/D4	13B/D5	13B/D5	13B/D6	13B/D6	13B/D7	13B/D7	13B/D8	13B/D8
3											
2	18C/B5	18C/D5	18C/E5	18C/G5	18A/D3	18A/D3	18A/D2	18A/D2	18A/E2	18A/D1	18A/D0
1											

KEY TOP
(KX) A-D, (KY) E, (KZ) F, (JA) G,
(JB) H, (JC) J, (JD) K, (JE) L

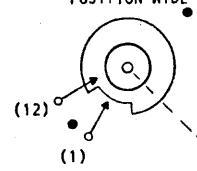


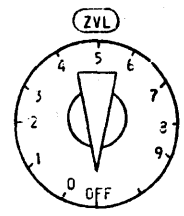
E1CL

SWITCH
A,B,D-H,J-L,M

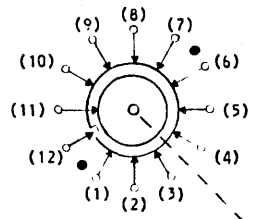
SWITCH TOP (ZVN)
A,B,D-H,J-L,M

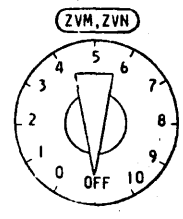
(ZVL) SECT.1
NOTE: CUTOUT IS ONE POSITION WIDE



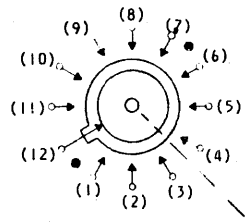


(ZVM, ZVN) SECT.1





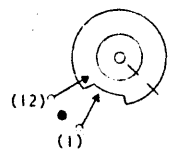
SECT. 2-4

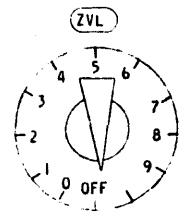


SWITCH
C

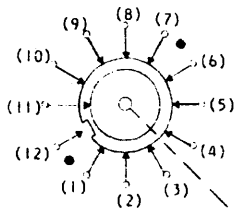
SWITCH TOP
C

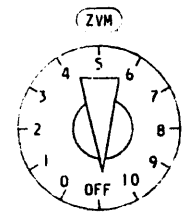
(ZVL) SECT 1
NOTE: CUTOUT IS ONE POSITION WIDE



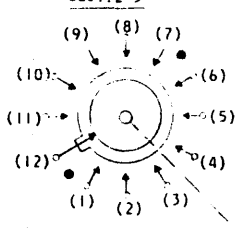


(ZVM) SECT. 1





SECT. 2-5



SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	A		B		C		D		E		F	
CODE	KS-14618		KS-14618		KS-14618		KS-14618		KS-14618		KS-14618	
LIST	47	98	47	98	48	99	47	98	47	98	47	98
OPTION	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM
SECT. NO.												
1	13B/E3		13B/E4		13B/E4		13B/E5		13B/E5		13B/E6	
2	14H0		14A/H3		14A/H4		14A/H7		15H0		15F3	
3	14H0		14A/H3		14A/H4		14A/H7		15H0		15F3	
4	18C/C5		18C/D5		18C/E5		18C/F5		18A/E3		18A/E3	
5					14A/G5							

SWITCH

DESIG	G		H		J		K		L		M	
CODE	KS-14618		KS-14618		KS-14618		KS-14618		KS-14618		KS-14618	
LIST	47	98	47	98	47	98	47	98	47	98	98	
OPTION	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM	ZVL	ZVM	ZVN	
SECT. NO.												
1	13B/E6		13B/E7		13B/E7		13B/E8		13B/E8		13B/E9	
2	15F4		15F5		15F6		15F7		15B/G0		15B/E2	
3	15F4		15F5		15F6		15F7		15B/G0		15B/E2	
4	18A/E2		18A/E2		18A/E1		18A/E1		18A/E0		18A/E0	

MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
6S
SD-25800-01-C11
ISSUE 85A

DRAWING ISSUE	BID	73D	77A	78D

APP FIG. 5

RELAY DESIG	NA			NA1			NB			NB1			NC			NC1			ND		
CODE	U57			U81			U57			U81			U57			U81			U57		
OPTION							Q			Q			R			R			S		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
				12,11	M	15B1				12,11	M	15B4				12,11	M	15B5			
TOP	10,9	M	14C1	10,9	M	14C8	10,9	M	14C3	10,9	M	15C1	10,9	M	14C5	10,9	M	15C4	10,9	M	14C9
	8,7	M	14C1	8,7	M	14C8	8,7	M	14C3	8,7	M	15C1	8,7	M	14C5	8,7	M	15C4	8,7	M	14C9
	6,5	M	14C1	6,5	M	14C8	6,5	M	14C3	6,5	M	15C1	6,5	M	14C5	6,5	M	15C4	6,5	M	14C9
	4,3	M	14C1	4,3	M	14C8	4,3	M	14C3	4,3	M	15C1	4,3	M	14C5	4,3	M	15C4	4,3	M	14C9
	2,1	M	14C1	2,1	M	14C8	2,1	M	14C3	2,1	M	15C1	2,1	M	14C5	2,1	M	15C4	2,1	M	14C9
BOT.	2,1	M	14C3	2,1	M	14C5	2,1	M	14C5	2,1	M	14C8	2,1	M	14C8	2,1	M	15C2	2,1	M	15C3
	4,3	M	14C3	4,3	M	14C5	4,3	M	14C5	4,3	M	14C8	4,3	M	14C8	4,3	M	15C2	4,3	M	15C3
	6,5	M	14C3	6,5	M	14C5	6,5	M	14C5	6,5	M	14C8	6,5	M	14C8	6,5	M	15C2	6,5	M	15C3
	8,7	M	14C3	8,7	M	14C5	8,7	M	14C5	8,7	M	14C8	8,7	M	14C8	8,7	M	15C2	8,7	M	15C3
	10,9	M	14C3	10,9	M	14C5	10,9	M	14C5	10,9	M	14C8	10,9	M	14C8	10,9	M	15C2	10,9	M	15C3
				12,11	M	-				12,11	M	-				12,11	M	-			
COIL			13A/F1			13A/F1			13A/F2			13A/F2			13A/F3			13A/F3			13A/F4

RELAY DESIG	ND1			VER3			VER4			VER5											
CODE	U81			U136			U57			U57											
OPTION	S			N			N			N											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
	12,11	M	15B6																		
TOP	10,9	M	15C5	10,9	M	13A/H1	10,9	M	14D1	10,9	M	14D5									
	8,7	M	15C5	8,7	M	13A/H0	8,7	M	14D1	8,7	M	14D5									
	6,5	M	15C5	6,5	M	14B/D0	6,5	M	14D1	6,5	M	14D5									
	4,3	M	15C5	4,5	M	14B/D0	4,3	M	14D1	4,3	M	14D5									
	2,1	M	15C5	2,1	M	54B/D2	2,1	M	14D1	2,1	M	14D5									
BOT.	2,1	M	15C4	2,1	M	14B/D2	2,1	M	14D3	2,1	M	14D8									
	4,3	M	15C4	4,3	M	14B/D2	4,3	M	14D3	4,3	M	14D8									
	6,5	M	15C4	6,5	M	14B/D4	6,5	M	14D3	6,5	M	14D8									
	8,7	M	15C4	8,7	M	14B/D4	8,7	M	14D3	8,7	M	14D8									
	10,9	M	15C4				10,9	M	14D3	10,9	M	14D8									
	12,11	M	-																		
COIL			13A/F4			12A7			13A/F0			13A/F0									

DRAWING ISSUE

51D	FLO FAL AUG
51A	APR AUG 44
63D	MAR AUG
66A	JAN
78D	

ISSUE 85A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C12

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 65

SD-25800-01-C12

PART OF APP FIG. 6

RELAY

DESIG	KFTU			KFU			KHGA			KHGT			KV			KV1			KV1		
CODE	U57			U57			U57			U1325			U1391			U57			U81		
OPTION																UK			UL		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
										12,11	M	44A/G7							12,11	M	22A/C7
TOP	10,9	M	57B/C8	10,9	M	22B/C7	10,9	M	24B/B0	10,9	M	24B/B4				10,9	M	5587	10,9	M	55B7
	8,7	M	22A/C1	8,7	M	22B/C7	8,7	M	24B/B0	8,7	M	24B/B4				8,7	M	22A/C6	8,7	M	22A/C6
	6,5	M	22A/C1	6,5	M	22B/C7	6,5	M	24B/B0	6,5	M	24B/B4	6,5	M	25A7	6,5	M	22A/C6	6,5	M	22A/C6
	4,3	M	22A/C1	4,3	M	22B/C7	4,3	M	24B/B0	4,3	M	24B/B4	4,3	M	25A7	4,3	M	22A/C6	4,3	M	22A/C6
	2,1	M	22A/C1	2,1	M	22B/C7	2,1	M	24B/B0	2,1	M	24B/B4	2,1	M	25A7	2,1	M	22A/C6	2,1	M	22A/C6
BOT.	2,1	M	22B/C2	2,1	M	22B/C7	2,1	M	24B/B0	2,1	M	24B/B4	2,1	M	25A7	2,1	M	25C7	2,1	M	25E7
	4,3	M	22B/C2	4,3	M	22B/C7	4,3	M	24B/B0	4,3	M	24B/B4	4,3	M	25A7	4,3	M	25C7	4,3	M	25E7
	6,5	M	22B/C2	6,5	M	22B/C7	6,5	M	24B/B0	6,5	M	24B/B4	6,5	M	52B/C0	6,5	M	25C7	6,5	M	25E7
	8,7	M	22B/C2	8,7	M	22B/C7	8,7	M	24B/B0	8,7	M	24B/B4				8,7	M	25C7	8,7	M	25E7
	10,9	M	22B/C2	10,9	M	22B/C7	10,9	M	24B/B0	10,9	M	24B/B4				10,9	M	25C7	10,9	M	25E7
										12,11	M	24B/F3							12,11	M	22A/C7
COIL			20A/B6			20B/B6			20B/B7			20B/F9			24B/F3			20B/B6			20B/B8

RELAY

DESIG	KVF1			KVG1			KVG2			KVG3			KVG4			KVHG			OTL1		
CODE	U238			U144			U 14			U57			U1301			U81			U144		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
				12,11	M	-	12,11	M	-							12,11	M	23A/C2	12,11	M	22A/H0
				10,9	M	-	10,9	M	20B/E9	10,9	M	8D/G3				10,9	M	23A/C2	10,9	M	22A/H0
TOP	9,8	M	25A6	8,7	M	23D/B4	8,7	M	23B/B5	8,7	M	23B/B0				8,7	M	23A/C2	8,7	M	22B/H0
	7,6	M	25A6	6,5	M	23B/B4	6,5	M	23B/B5	6,5	M	23B/B0	6,5	M	23B/B2	6,5	M	23A/C2	6,5	M	22B/H0
	5,4	M	25A6	4,3	M	23B/B4	4,3	M	23B/B5	4,3	M	23B/B0	4,3	M	23B/B2	4,3	M	23A/C2	4,3	M	23A/C4
	3,2,1	BM	20A/C6	2,1	M	23D/B4	2,1	M	23B/B5	2,1	M	23B/B0	2,1	M	23B/B2	2,1	M	23A/C2	2,1	M	23A/C4
BOT.	3,2,1	BM	20A/C6	2,1	M	23B/B1	2,1	M	23B/B5	2,1	M	23B/B0	2,1	M	23B/B2	2,1	M	24A/C4	2,1	M	24A/C0
	5,4	M	25A6	4,3	M	23B/B4	4,3	M	23B/B5	4,3	M	23B/B0	4,3	M	23B/B2	4,3	M	24A/C4	4,3	M	24A/C0
	7,6	M	25A6	6,5	M	23B/B4	6,5	M	-	6,5	M	23B/B0	6,5	M	23B/B2	6,5	M	24A/C4	6,5	M	25G0
				8,7	M	23B/B4	8,7	M	20A/E6	8,7	M	23B/B0				8,7	M	24A/C4	8,7	M	26A/D5
				10,9	M	-	10,9	M	-	10,9	M	20B/E7				10,9	M	24A/C4	10,9	M	20B/E7
				12,11	M	-	12,11	M	-							12,11	M		12,11	M	24B/F2
COIL			20A/B1			20B/B0			20B/B0			20B/B1			20B/B1			20B/B8			20A/B9

RELAY

DESIG	OTL2			VGA																	
CODE	U144			U519 OR U1210																	
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
	12,11	M	23B/H7																		
	10,9	M	22A/H0																		
TOP	8,7	M	22B/H0																		
	6,5	M	22B/H0																		
	4,3	M																			
	2,1	M	22A/H0	3,2,1	BM	44A/F7															
	2,1	M	24B/F2	2,1,3	MB	24B/G6															
	4,3	M	24B/F6																		
BOT.	6,5	M	25G6																		
	8,7	M	20B/E7																		
	10,9	M	-																		
	12,11	M	20B/D0																		
COIL			20B/B5			20B/F7															

RELAY

DESIG	VGT1						DESIG
CODE	AJ12						CODE
OPTION	JF						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	E&M	23B/E2					12
11	E&M	23B/E3					11
10	E&M	23B/D3					10
9	E&M	23B/D3					9
8	E&M	23B/E4					8
7	E&M	23B/E4					7
6	E&M	-					6
5	E&M	23B/E5					5
4	E&M	-					4
3	E&M	23B/D8					3
2	E&M						2
1	E&M	23B/H1					1
COIL		23A/R1					COIL

DRAWING ISSUE

51D	TLC
93D	
98D	
99A	
60D	
69A	
63D	
65D	
70D	
73D	
74A	
75D	
79A	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C13

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF APP FIG. 6

KEY E1CG	(ZTM) FU	(KX) HG
9	22B/E6	24A/F6
	22B/D5	24A/E5
	22B/E8	24B/D1
8	22B/E6	24A/F6
	22B/D4	24A/E5
	22B/E8	24B/D1
7	22B/E6	24A/F6
	22B/D4	24A/E4
	22B/E8	24B/D1
6	22B/E5	24A/F6
	22B/E5	24A/F5
	22B/E8	24B/C1
5	22B/E5	24A/F6
	22B/E4	24A/F5
	22B/E8	24B/D1
4	22B/E5	24A/F5
	22B/E4	24A/F4
	22B/E8	24B/D1
3	22B/E5	24A/F5
	22B/E4	24A/F5
	22B/E8	24B/D1
2	22B/C5	24A/F5
	22B/E4	24A/F4
	22B/E8	24B/D1
1	22B/F4	24A/F5
	22B/E4	24A/F4
	22B/E8	24B/D1
0	22B/D6	24A/E6
	22B/D5	24A/E6
	22B/E8	24B/D1

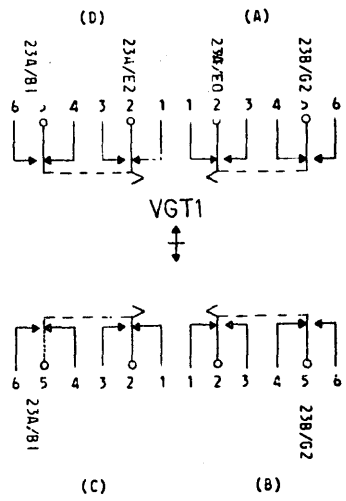
KEY E1DJ (RD) VF	
4	25E3
3	25E3
2	25E2
1	25E1
0	25E1

KEY E1CL (RE) VF	
9	25C2
	25C3
8	25C1
	25C5
7	25C1
	25C3
6	25C2
	25C3
5	25C1
	25C5
4	35A/G9
	25C1
3	33A/F5
	25E3
2	35A/G8
	25C1
1	33A/F5
	25E3
0	35A/G8
	25C1
	33A/F5
	25E2
	35A/G7
	25D1
	33A/F5
	25E1
	35A/G6
	25D5
	33A/F3
	25C3,E1

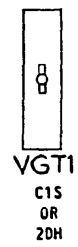
KEY E1CL (HX) VG	
9	23B/E0
	23A/D6
	23A/E8
8	23B/E0
	23A/D5
	23A/E8
7	23B/E0
	23A/D4
	23A/E8
6	23B/E0
	23A/E6
	23A/E7
5	23B/E0
	23A/E5
	23A/E7
4	23B/E0
	23A/E4
	23A/E7
3	23B/E0
	23A/E5
	23A/E6
2	23B/E0
	23A/E4
	23A/E6
1	23B/E0
	23A/E4
	23A/E5
0	23B/E0
	23A/D7
	23A/D8

KEY E1DK (ZF) VG	
13	23B/E2
	23A/D8
	23A/E9
12	23B/E2
	23A/D6
	23A/E9
11	23B/E1
	23A/D5
	23A/E9
10	23B/E1
	23A/D4
	23A/E9

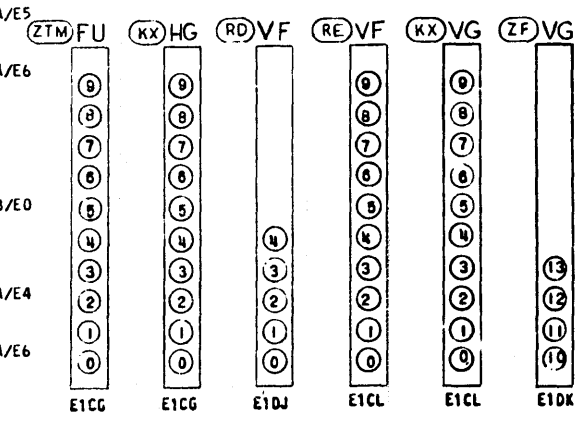
KEY (JF) C1S OR KEY UNIT 2DH



(JF) KEY TOP



KEY TOP



BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C14

6S

ISSUE 97A

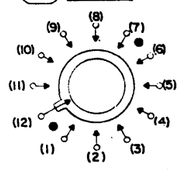
DRAWING ISSUE

74A	71D RLF	65A WM A/C AUD	63D WM A/S AUD	61A A/S AUD	60D A/L AUD	53D E&M AUD	51D E&M AUD	TLC				

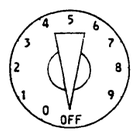
PART OF APP FIG. 6

SWITCH
FU

(ZWP) SECT. 1-3
(ZWQ) SECT. 1-6

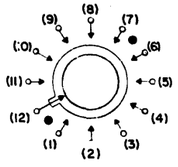


SWITCH TOP



SWITCH
HG

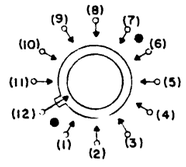
SECT. 1-5



SWITCH TOP

SWITCH
VF

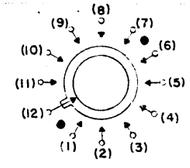
SECT. 1-5



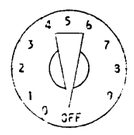
SWITCH TOP

SWITCH
VGU

SECT. 1-6



SWITCH TOP



SWITCH (SWITCH SECTIONS SHOWN IN OFF POSITION)

DESIG		HG	VF	VGU	FU	FU
CODE		KS-14618	KS-14618	KS-14618	KS-14618	KS-14618
LIST		42	42	43	40	43
OPTION		JF	JF	JF	ZWP	ZWQ
SECT. NO						
1		24A/F6	25D4	23A/E0	22B/E2	22B/E2
2		24A/F6	25D4	23A/E0	22B/E2	22B/E2
3		24B/D2	25D4	23A/E0	22B/E7	22B/E7
4		24B/D2	2584	23B/F2		113G9
5		24B/D2	2584	23B/F2		117F0
6				23B/F2		

DRAWING ISSUE	
51D	TLG AND AAG
53D	CL AND AAG
55A	LF AND AAG
71D	R,F
74A	
76D	
78D	
83A	

ISSUE
97A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C15

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

STABILO

PART OF APP FIG. 7

RELAY	CSGK			CSK			CSK1			CSRK			FTK			FUK			HGK		
DESIG																					
CODE	U422			U422			U422			U422			U422			U422			U180		
OPTION	RH						RG			RH											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	3,2,1	BM	60A/G3	3,2,1	BM	60A/G5	3,2,1	BM	60A/F4	3,2,1	BM	60A/G3	3,2,1	BM	60A/G8	3,2,1	BM	60A/G7	3,2,1	BM	60A/G7
	2,1	M	-	2,1	M	-	2,1	M	-	2,1	M	-	2,1	M	22A/H8	2,1	M	22B/H7	2,1	M	52B/D0
BOT.																			4,3	M	51A/D3
COIL			27F2			27D2			27C2			27E2			22A/H7			22B/H7			24B/F1

RELAY	TOD			KCS0			KCS1			KCS2			KCS3			KCS5			KCS6		
DESIG																					
CODE	U1113			U106			U106			U106			U57			U106			U106		
OPTION	OK						ZG,YZ			ZH						ED			CD		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	27B5	12,11	M	27D5	12,11	M	27E5		a		12,11	M	27E5	12,11	M	
				10,9	M	27B5	10,9	M	27D5	10,9	M	27E5	10,9	M	b	10,9	M	27H4	10,9	M	
	10,9	M	25B1	8,7	M	27B5	8,7	M	27D5	8,7	M	27E5	8,7	M	a	8,7	M	-	8,7	M	96G9
	8,7	M	25B1	6,5	M	27B5	6,5	M	27D5	6,5	M	27E5	6,5	M	268/C0	6,5	M	-	6,5	M	268/C7
	6,5,4	BM	25E2	4,3	M	27B5	4,3	M	27D5	4,3	M	27E5	4,3	M	268/C0	4,3	M	-	4,3	M	268/C8
	3,2,1	BM	25D1	2,1	M	27B5	2,1	M	27D5	2,1	M	27E5	2,1	M	268/C0	2,1	M	-	2,1	M	268/C6
BOT.	3,2,1	BM	25D3	2,1,3	MB	27A2	2,1,3	MB	27A1	2,1,3	MB	27A1	2,1	M	268/C4	2,1,3	MB	-	2,1,3	MB	96E6
	6,5,4	BM	25B2	5,4	M	27B5	5,4	M	27D5	5,4	M	27E5	4 3	M	268/C4	5,4	M	-	5,4	M	268/C6
	8,7	M	25B3	7,6	M	27B5	7,6	M	27D5	7,6	M	27E5	6,5	M	268/C4	7,6	M	-	7,6	M	268/C6
	10,9	M	25B3	9,8	M	27B5	9,8	M	27D5	9,8	M	27E5	8,7	M	268/C4	9,8	M	-	9,8	M	268/C6
				11,10	M	27B5	11,10	M	27D5	11,10	M	27E5	10,9	M	268/C4	11,10	M	-	11,10	M	268/C6
COIL			68B/F6			26A/A0			26A/A1			26A/A2			26A/A5			26A/A3			26A/A6

a (JF,JH) 268/C0; (RF) 268/D8

b (JF,JH) 268/C0; (RF) 268/D9

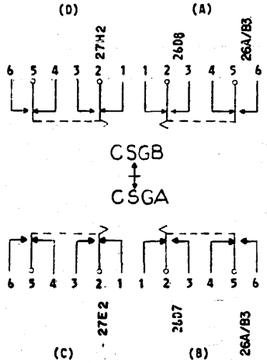
RELAY	KRC1			KRC2			RCK			TCBT			VER1			VER9			VFK		
DESIG																					
CODE	U81			U238			U422			U177			U503			U503			U422		
OPTION										ZYZ						JO					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	29H7																		
	10,9	M	28B/D5																		
	8,7	M	28B/D5	9,8	M	28B/D7															
	6,5	M	28B/D5	7,6	M	28B/D7				9,8,7	BM	-	9,8,7	BM	25H3	9,8,7	BM	27E1			
	4,3	M	28B/D5	5,4	M	28B/D7				6,5,4	BM	35A/B8	6,5,4	BM	28B/E1	6,5,4	BM	27E1			
	2,1	M	28B/D5	3,2,1	BM	29B5	3,2,1	BM	60A/E0	3,2,1	BM	33A/C1	3,2,1	BM	23B/H0	3,2,1	BM	27C1	3,2,1	BM	60A/G6
BOT.	2,1	M	28B/D5	3,2,1	BM	28B/B8	2,1	M	28A/B4	3,2,1	BM	35A/B9	3,2,1,	BM	2701	3,2,1	BM	57A/G0	2,1	M	-
	4,3	M	28B/D5	5,4	M	28B/D7				6,5,4	BM	35A/B9	6,5,4	BM	28B/A7	6,5,4	BM	30D9			
	6,5	M	28B/D5	7,6	M	28B/D7				9,8,7	BM	35A/B8	8,7	M	5A/H4	8,7	M	28A/E2			
	8,7	M	28B/D5																		
	10,9	M	28B/D5																		
	12,11	M	30C9																		
COIL			28B/A0			28B/A0			28B/A7			33A/D1			29B6			29A5			25H3

RELAY	VGK			TNK								
DESIG												
CODE	U422			U503								
OPTION				NN								
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				9,8,7	BM	28A/B7						
				6,5,4	BM							
	3,2,1	BM	60A/G7	3,2,1	BM	60A/DC						
	2,1	M	-	3,2,1	BM							
BOT.				6,5,4	BM	28B/C8						
				8,7	M	28A/B5						
COIL			23B/H0			28A/A7						

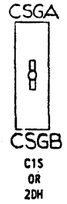
DIODE

OPT	DESIG	LOC	CODE
ZPG	TNK	28A/C7	446F

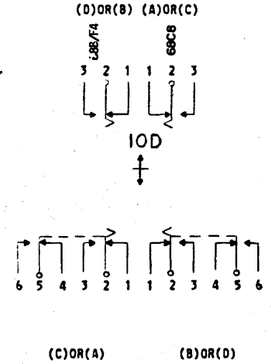
ED, ZLW — KEY OR KEY UNIT C1S 2DH



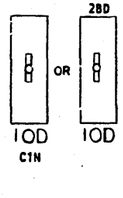
ED,ZLW KEYTOP



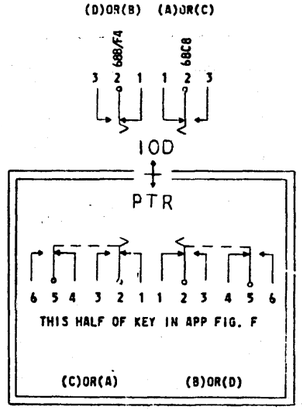
QU — KEY OR KEY UNIT C1N 2BD



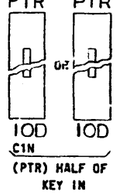
QU KEYTOP



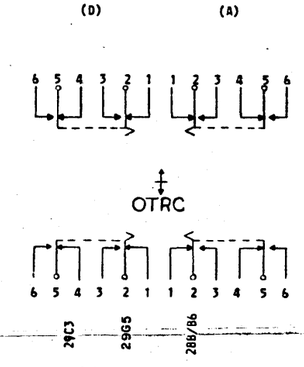
QW — KEY OR KEY UNIT C1N 2BD



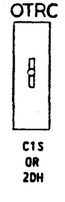
QW KEYTOP



RC — KEY OR KEY UNIT C1S 2DH



RC KEYTOP

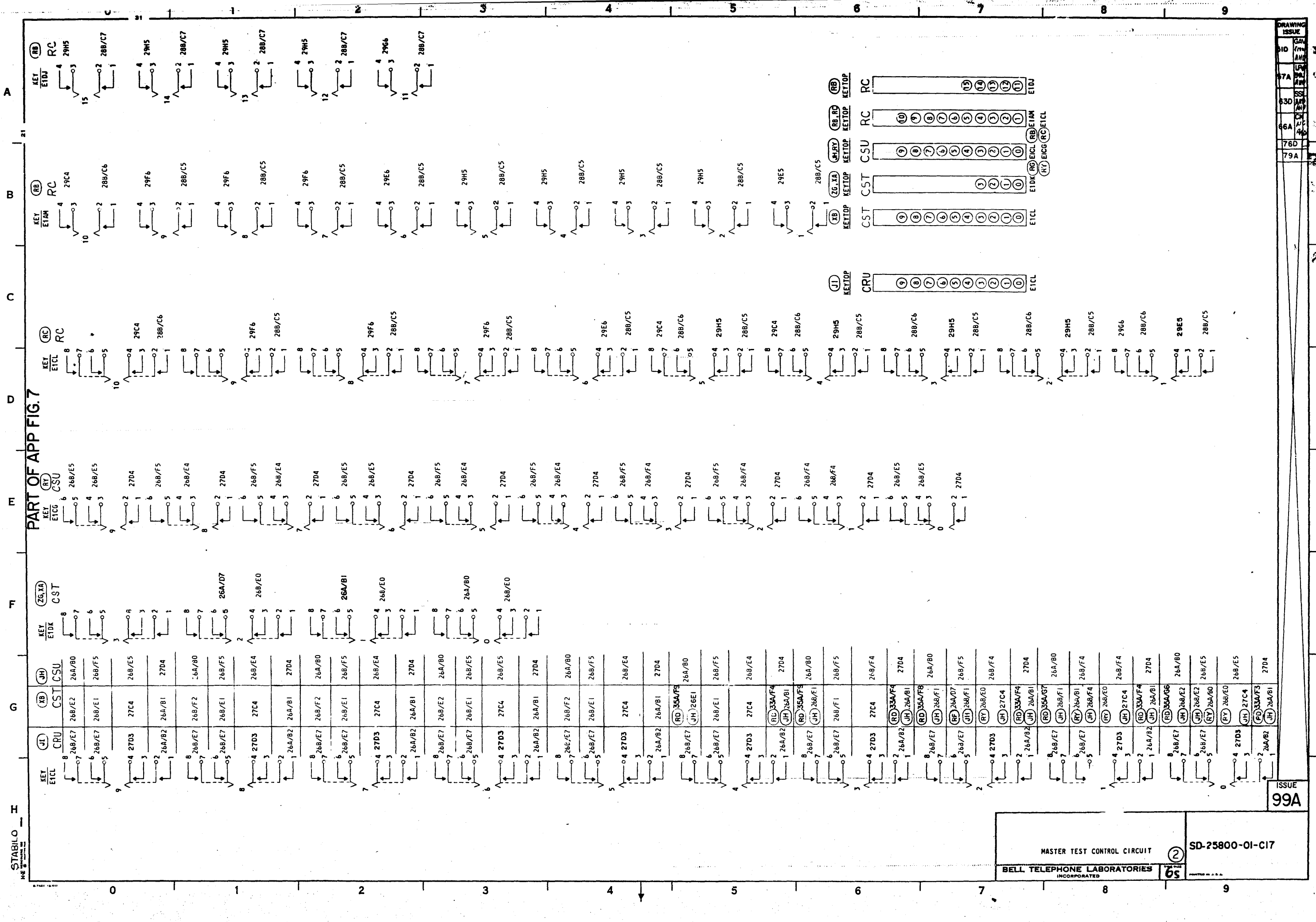


ISSUE 99A

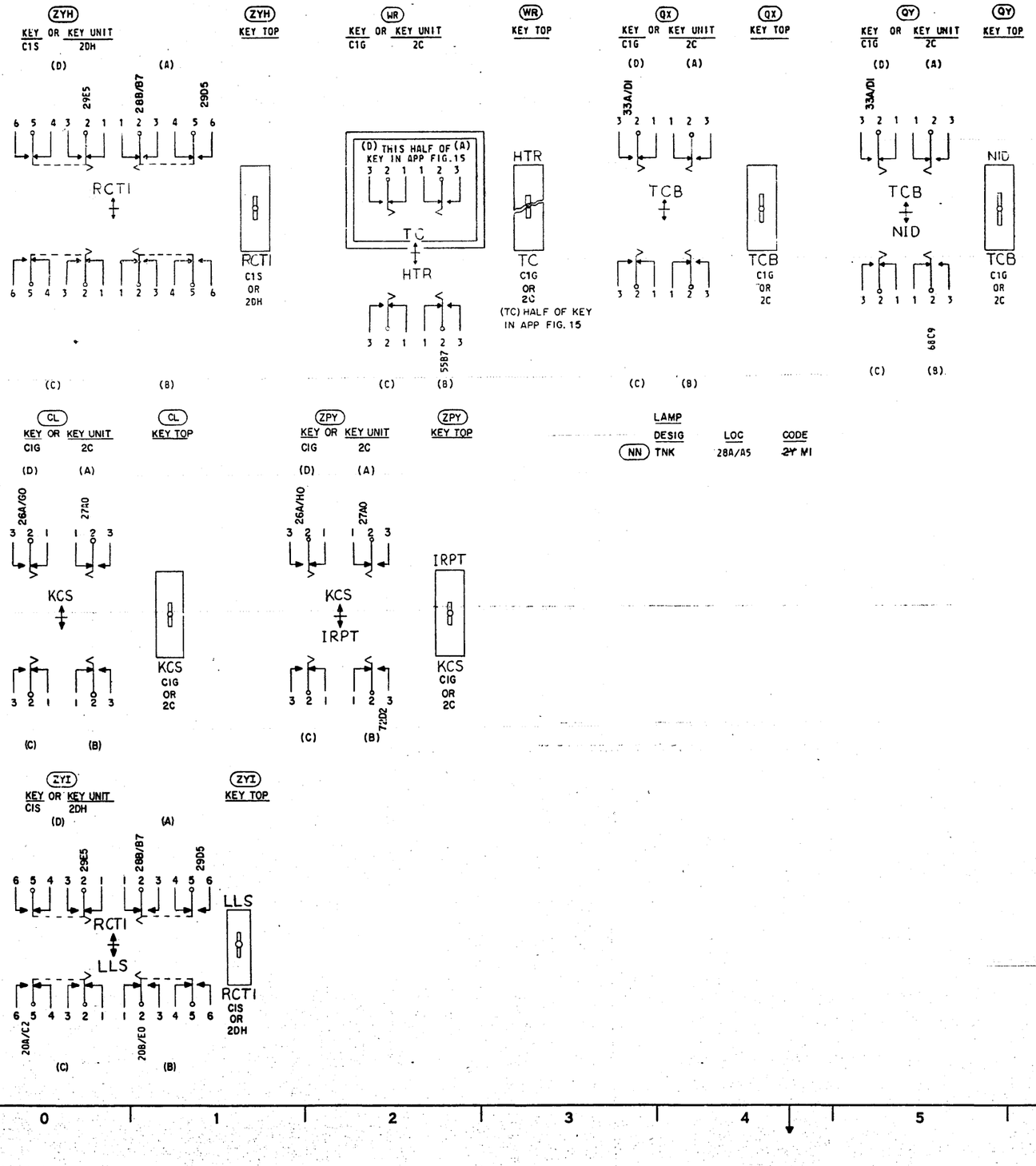
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C16

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF APP FIG. 7



PART OF APP FIG. 7



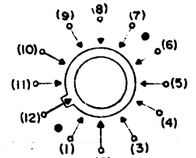
LAMP

DESIG	LOC	CODE
(NN) TNK	28A/A5	~~2Y~~ M1

SWITCH: CRU,CST,CSU,RCU,TSC

SWITCHTOP: CRU,CST,CSU,RCU,TSC

SECT 1-4



(SWITCH SECTIONS SHOWN IN "OFF" POSITIONS)

SWITCH DESIG	CRU	CST	CSU	RCU	TSC	CST	CRU
CODE	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618
LIST	41	41	41	41	41	41	41
OPTION	JJ	JF	JF	JF	FA	ZLS	ZLV
SECT NO							
1	26B/E6	26B/H0	26B/F3	28B/C5	33A/F3	26B/H0	26B/E6
2	26B/E6	26B/H0	26B/F3	28B/C7	35A/G5	26B/H1	26B/E6
3	27E4	27B4	27D4	2903	-	33A/F3	
4	26A/D3	26A/D1	26A/D1	2904	-	35A/G5	

DRAWING ISSUE	
51 D	R.V. CRU AND
55A	LF TIN PHI
57A	LPV CRU AND
59A	FB AND
63D	SS AND
65D	CK AC AND
66A	CK AC AND
68A	
70A	CH
730	
74A	
769	
794	
820	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C18

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C18

STABILOK

APP FIG. 8 (MFR DISC.)

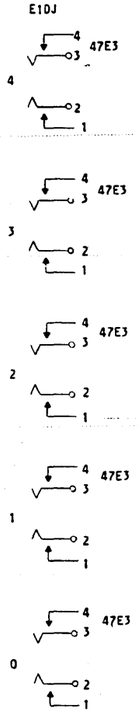
RELAY

DESIG	ASB			KOS			KOSG			OSK			SSA			SSB			SST1		
CODE	Y115			U55			U65			U234			U59			U59			U88		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							12,11	M	46A8				12,11	M		12,11	M	-	12,11	B	-
							10,9	M	46A8				10,9	B	47B6	10,9	B	47A6	10,9	B	46H5
				9,8	M	47A7	8,7	M	47E8				8,7	B	-	8,7	B	-	8,7	B	46G5
				7,6	M	47D5	6,5	M	-				6,5	B	-	6,5	B	-	6,5	B	46G5
				5,4	M	8A/E0	4,3	M	-	5,4,3	BM	-	4,3	B	-	4,3	B	-	4,3	B	46F5
	2,1	B	4704	3,2,1	BM	10A/D8	2,1	M	46D1	2,1	B	47B6	2,1	B	-	2,1	B	-	2,1	B	46F5
BOT.	2,1	M	-	3,2,1	BM	-	2,1	M	46A1	3,2,1	BM	-	2,1	B	46B5	2,1	B	46E5	2,1	B	46C5
				5,4	M	47B6	4,3	M	46B1	5,4	M	53A/A7	4,3	B	46C5	4,3	B	46F5	4,3	B	46C5
				7,6	M	47B6	6,5	M	46C1				6,5	B	46C5	6,5	B	46F5	6,5	B	46D5
							8,7	M	46C1				8,7	B	46D5	8,7	B	46G5	8,7	B	46D5
							10,9	M	47E6				10,9	B	46D5	10,9	B	46G5	10,9	B	46E5
							12,11	M	47E7				12,11	M	-	12,11	M	-	12,11	M	-
COIL			4706			47A7			47C5			4708			4706			4707			473

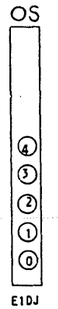
RELAY

DESIG																					
CODE																					
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP																					
BOT.																					
COIL																					

KEY
OS
E1DJ

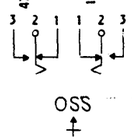


KEY TOP

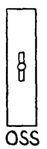


KEY OR KEY UNIT

C1LA (D) 47A7 — 2GP (A) 10A/C8

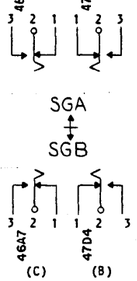


KEY TOP

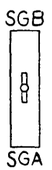


KEY OR KEY UNIT

C1G (D) 46A7 — 2C (A) 47D4



KEY TOP



DRAWING ISSUE		
51D	NP	CB
87D	1st	CB
70A	CH	CB
71D	PAP	CB

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-C19

SD-25800-01-C19

STABILO

PART OF APP FIG. 9

RELAY																										
DESIG	HMSA			KFS			KMT9						KTF			KTS			MC6							
CODE	U1013			U1323 OR U539(MD)			U438						U136			U1329			U81							
OPTION	UY																									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							11,10	M	40B/E5				10,9	M	44B/D8				12,11	M	41C/D2						
							9,8	M	40B/E5				8,7	M	44B/D8				10,9	M	42B/C2						
				8,7	M	40B/E5	7,6	M	-				6,5	M	44B/D8	7,6	M	108/C5	8,7	M	42B/H4						
	5,4,3	BM	-	6,5,4	BM	8A/E1	5,4	M	-				4,3	M	44B/D8	5,4	M	41A/E2	6,5	M	41C/E9						
	2,1	B	-	3,2,1	BM	8A/E1	3,2,1	BM	42B/F3				2,1	M	44B/D8	3,2,1	BM	8A/D3	4,3	M	41A/E2						
BOT.	2,1	B	41A/C2	3,2,1	BM	40B/F6	3,2,1	BM	44A/E7				2,1	M	44B/C1	2,1	B	108/E5	2,1	M	10B/D5						
	4,3	M	43C/D6	5,4	M	44A/E7	5,4	M	41A/C0				4,3	M	44B/C0	4,3	M	108/G5	4,3	M	42B/E1						
	6,5	M	53A/F9				7,6	M	31G3				6,5	M	44B/C0	6,5	M	45C8	6,5	M	42A/F0						
							9,8	M	8A/E7				8,7	M	44A/F8				8,7	M	41C/D2						
							11,10	M	-										10,9	M	41C/D2						
																			12,11	M	a						
COIL			53A/E8			40B/D6			40B/F7						31E6			40B/C9			11F3						

a: (ZZT) 41C/F2; (ZZU) 37A/F5

RELAY																										
DESIG	P3A			P4A			P5A						RA1			RA1'			RA2							
CODE	U611			U611			U611						U497			U420			U497							
OPTION	LS			LS			LS						LG			LG			LG							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC					
TOP																										
	9,8,7	BM	43D6	9,8,7	BM	43D6	9,8,7	BM	43D7																	
	6,5,4	BM	43E2	6,5,4	BM	43E2	6,5,4	BM	43C6							5,4	M	43D7								
	3,2,1	BM	43A6	3,2,1	BM	43B6	3,2,1	BM	43B7				3,2,1	B	42A/C3	3,2,1	BM	42A/D3	3,2,1	BM	42A/C4					
BOT.	3,2,1	BM	43G1	3,2,1	BM	43F1	3,2,1	BM	43E7				2,1,3	MB	-	3,2,1	B	43C2	2,1,3	MB	-					
	6,5,4	BM	43H2	6,5,4	BM	42B/A8	6,5,4	BM	43F7																	
	9,8,7	BM	43G1	9,8,7	BM	43G2	9,8,7	BM	43G0																	
COIL			42B/G5			42B/G6			42B/G6						42A/C3			42A/B3			42A/C4					

RELAY																										
DESIG	R&2'			RA3			RA3'			RA4			RA4'			RA5			RA5'							
CODE	U420			U497			U420			U497			U420			U497			U420							
OPTION	LG			LG			LG			QF			QF			QF			QF							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC					
TOP																										
	5,4	M	43A7				5,4	M	43F7				5,4	M	43C7				5,4	M	43E7					
	3,2,1	BM	42A/D4	3,2,1	BM	42A/C4	3,2,1	BM	42A/D4	3,2,1	BM	42A/C5	3,2,1	BM	42A/D5	3,2,1	BM	42A/C5	3,2,1	BM	42A/C5					
BOT.	3,2,1	BM	43C2	2,1,3	MB	-	3,2,1	BM	43C1	2,1,3	MB		3,2,1	BM	43C	2,1,3	MB	-	3,2,1	BM	43C0					
COIL			42A/B4			42A/C4			42A/B4			42A/C5			42A/B5			42A/L5			42A/B5					

RELAY																										
DESIG	RAP1			RAP2			RAP3			RAP4			RHP5			RAV			TKS							
CODE	U1059			U1059			U1059			U1059			U1059			U497			U1329							
OPTION	LS			LS			LS			LS			LS			LS										
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC					
TOP																										
	11,10,9	BM	42B/C7	11,10,9	BM	42B/D7	11,10,9	BM	42B/D7	11,10,9	BM	42B/B7	11,10,9	BM	42B/B7											
	8,7,6	BM	42B/E6	8,7,6	BM	42B/D8	8,7,6	BM	43F2	8,7,6	BM	-	8,7,6	BM	-				7,6	M	40B/D3					
	5,4	B	42B/D9	5,4	B	43E1	5,4	B	43H2	5,4	B	-	5,4	B	42B/C8				5,4	M	41A/E2					
	2,1,3	MB	42B/B7	2,1,3	MB	42B/B6	2,1,3	MB	42B/C8	2,1,3	MB	43A7	2,1,3	MB	43A8	3,2,1	BM	-	3,2,1	BM	41C/C1					
BOT.	2,1,3	MB	42B/C8	2,1,3	MB	42B/B6	2,1,3	MB	42B/H5	2,1,3	MB	42B/H6	2,1,3	MB	42B/H6	2,1,3	MB	42B/D6	2,1	B	10A/B6					
	6,5,4	BM	43E0	6,5,4	BM	42B/B8	6,5,4	BM	43G2	6,5,4	BM	43H0	6,5,4	BM	42B/B8				4,3	M	42B/H4					
	9,8,7	BM	43A6	9,8,7	BM	42B/D9	9,8,7	BM	42B/C9	9,8,7	BM	42B/C9	9,8,7	BM	42B/D8				6,5	M	40B/C5					
	11,10	M	42B/C6	11,10	M	43F0	11,10	M	43F2	11,10	M	42B/D8	11,10	M	42B/D9											
COIL			42B/A6			42B/A6			42B/A7			42B/A8			42B/29			42A/C3			40B/B3					

RELAY																										
DESIG	TSK			WSD			XFT			KRA			KRA			RA			RA							
CODE	U286			U577			U520			U1289			U351			U611			U254							
OPTION				VG						ZZG			ZZF			ZTP			ZTJ							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC					
TOP																										
				11,10	M	10A/D6				10,9	M	42A/E3														
				9,8,7	BM	42B/F2				8,7	M	42A/B6	8,7	M	42A/B6	9,8,7	BM									
	5,4	M	41A/C1	6,5,4	BM	44F/F7	4,3	M	41A/C0	6,5,4	BM	42B/G0	6,5,4	BM	42B/G0	6,5,4	BM	42B/G1	5,4	M	42B/G1					
	3,2,1	BM	-	2,1,3	MB	24B/E3	2,1	B	-	3,2,1	BM	42A/D1	3,2,1	BM	42A/D1	3,2,1	BM	42A/D2	3,2,1	BM	42A/D2					
BOT.	2,1	M	10B/D5	2,1	B	33B/F6	2,1	B	44A/F8	3,2,1	BM	42A/D0	3,2,1	BM	42A/D0	3,2,1	BM	42A/D0	3,2,1	BM	42A/D0					
	4,3	M	10B/D5	5,4,3	BM	25F5	4,3	M	41A/B6	6,5,4	BM	a	5,4	M	42A/E3	6,5,4	BM	41C/D0	5,4	M	85C5					
				8,7,6	BM	23B/G4				8,7	M	43C0	7,6	M	43C0	9,8,7	BM									
				10,9	M	33B/F6																				
COIL			41A/C1			45A6			41A/C0			42B/D4			42B/D4			43F6			43F6					

a: (DO) 85D5; (ZTP) 41C/D0

RELAY																										
DESIG	RCY																								DESIG	
CODE	AF20																								CODE	
OPTION	FD																								OPTION	
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC		
12	EMB	42A/D6																							12	
11	M	42B/H1																							11	
10	EBM	-																							10	
9																									9	
8	EBM	-																							8	
7																									7	
6	EMB	40B/E4																							6	
5																									5	
4	EBM	5808																							4	
3																									3	
2	EBM	-																							2	
1	M	42A/B2																							1	
COIL		42A/D6																							COIL	

DRAWING ISSUE	
51D	GA
52A	GA, EJ, LF
53D	EJ, LF
56D	LF
57A	LF, CJC
58D	CJC, JJR
59A	JJR
61A	JJR, ESM
63D	ESM, CK
65D	CK
67D	
DRAWING REFURBISHED WITHOUT CHANGE 2-20-68 NSC	
70A	CH
71D	ESM
75D	
76A	
76B	
78D	
79A	

ISSUE 10A

MASTER TEST CONTROL CIRCUIT

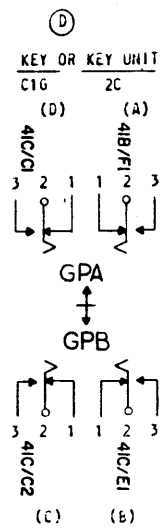
BELL TELEPHONE LABORATORIES INCORPORATED

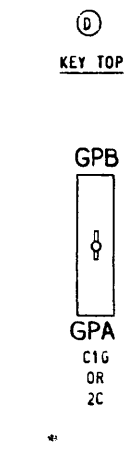
(2) SD-25800-01-C20

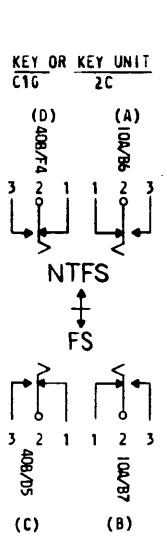
6S

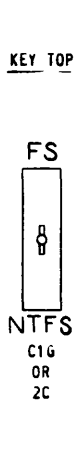
SD-25800-01-C20

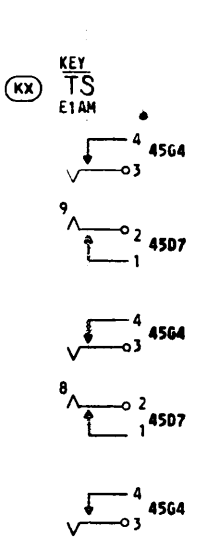
PART OF APP FIG. 9

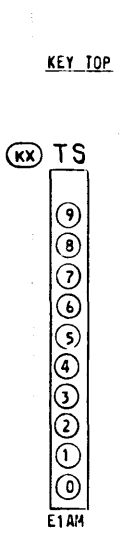


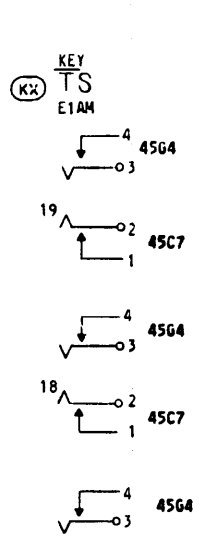


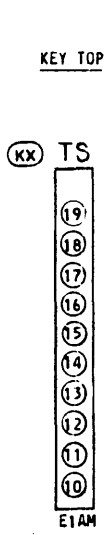


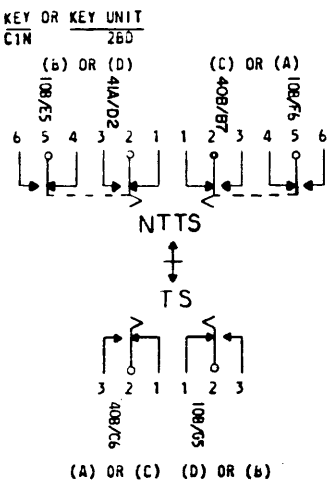


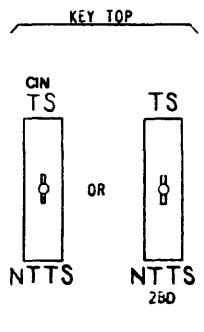


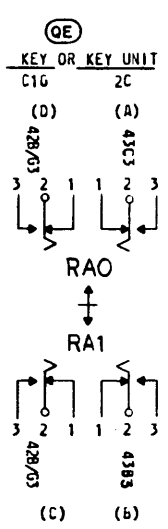


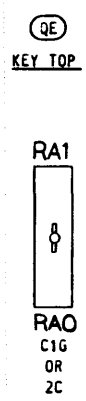


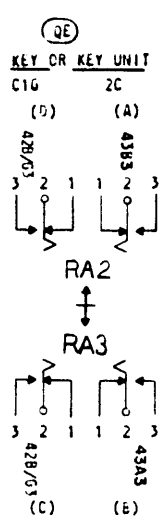


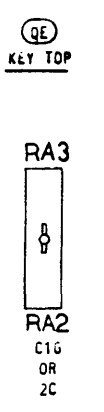


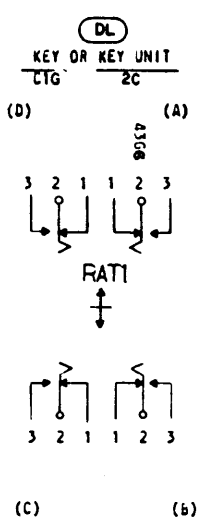


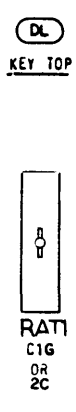


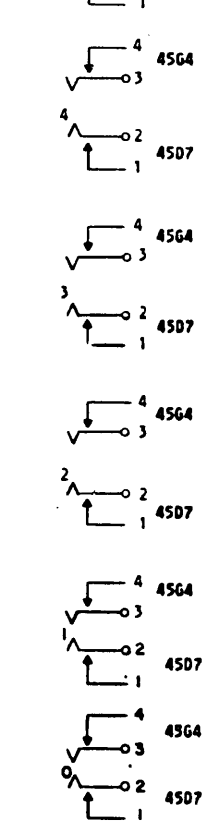


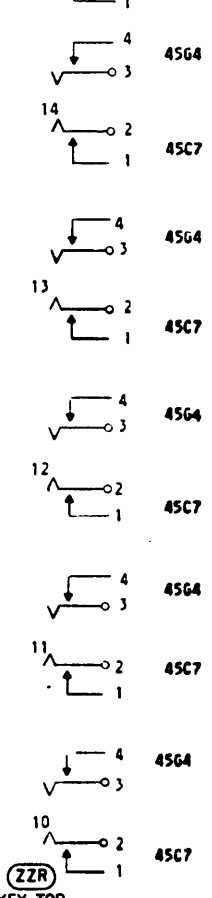


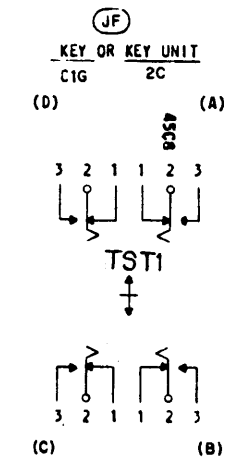


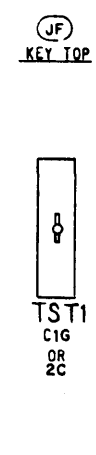


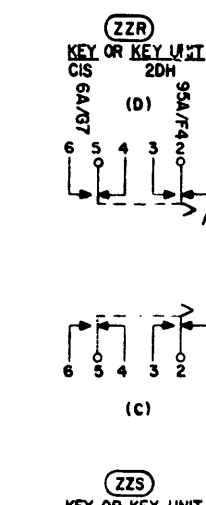


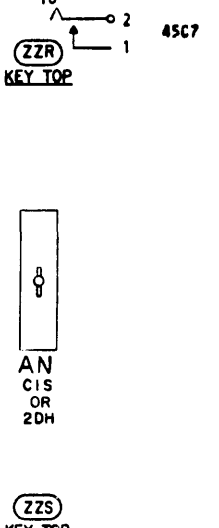












LAMP DESIG	LOC	CODE
FTC	44A/E8	13J (RES)
RA1	43D8	2Y MI
RA2	43A8	2Y MI
RA3	43F8	2Y MI
RA4	43C8	2Y MI
RA5	43E8	2Y MI
RA6	43A8	2Y MI
RA7	43E8	2Y MI
RA8	43C8	2Y MI
RA9	43F8	2Y MI
RA10	43B8	2Y MI
RA11	43D8	2Y MI
RCY	42A/A2	2Y MI
TSK	10B/C5	2Y MI
TT	45E9	13J (RES)
XFT	41A/B6	2Y MI
XTSK	10B/C5	2Y MI

YM LP LS DK FD

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

6S 2

SD-25800-01-C21

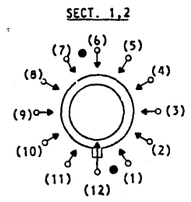
ISSUE 3

DRAWING ISSUE

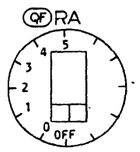
PART OF APP FIG. 9

SWITCH (QF) RA

SECT. 1,2

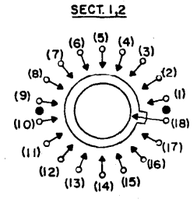


SWITCHTOP

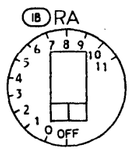


SWITCH (1B) RA

SECT. 1,2

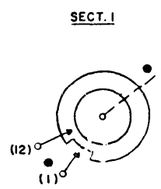


SWITCHTOP

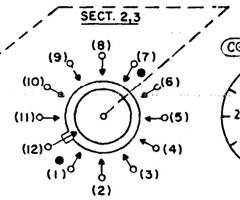


SWITCH (CG) RAU

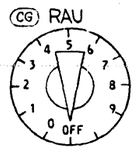
SECT. 1



SECT. 2,3

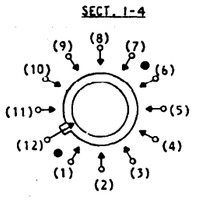


SWITCHTOP

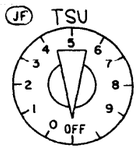


SWITCH (JF) TSU

SECT. 1-4



SWITCHTOP



SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	RA	RA	RAU	TSU
CODE	KS-13633	KS-14721	KS-14618	KS-14618
LIST	96	1	46	41
OPTION	QF	1B	CG	JF
SECT. NO.				
1	42B/G3	42A/G4	42B/G4	45C7
2	43A4	43F5	43G5	45D7
3			43H5	45G4
4				45H4

DRAWING ISSUE

51D	PWR W LA MP
58D	CWC WWB LWD
67D	KP

67

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C22

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 65

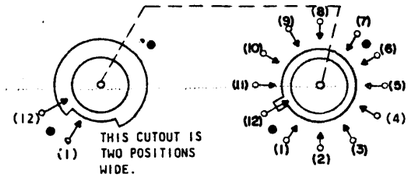
SD-25800-01-C22

APP FIG. 10

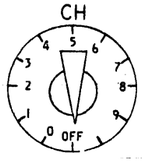
RELAY																	
DESIG	KCH			KJSQ			MT8K			STP							
CODE	U1329			U188			U168			U580							
OPTION																	
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC		
TOP				12,11	M	108/C2											
				10,9,8	BM	108/H1											
	7,6	M	108/H0	7,6	M	108/C2											
	5,4	M	8A/H4	5,4	M	108/C2	5,4	M	108/H2								
	3,2,1	BM	41C/F1	2,1,3	MB	108/D1	3,2,1	BM	108/H5	3,2,1	BM	48/C2					
BOT.	2,1	B	108/H2	2,1,3	MB	108/D0	2,1,3	MB	108/G2	3,2,1	BM	41C/F0					
	4,3	M	41C/H0	5,4	M	108/C2											
	6,5	M	41B/C6	7,6	M	108/C2											
				10,9,8	BM	108/H4											
				12,11	M	108/C2											
COIL			40B/A9			108/C1			108/G1			41C/H0					

SWITCH
(JF) CH

SECT. 1 — SECT. 2-9

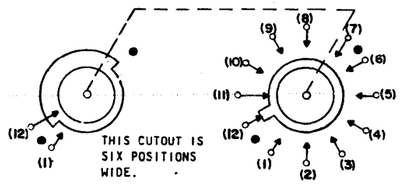


SWITCH TOP
(JF)

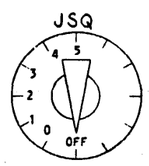


SWITCH
(JF) JSQ

SECT. 1 — SECT. 2

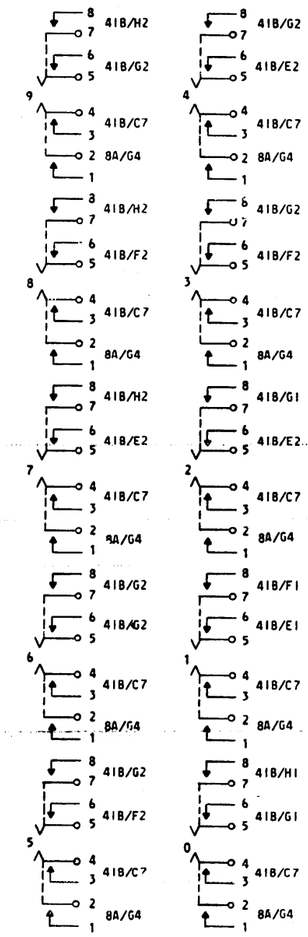


SWITCH TOP
(JF)

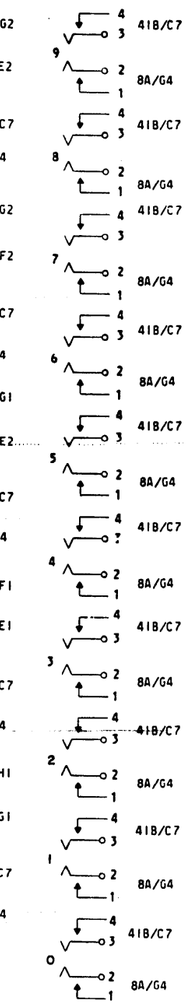


DESIG	CH		JSQ	
CODE	KS-14618		KS-14618	
LIST	47		45	
OPTION	JF		JF	
SECT. NO.				
1	8A/G3		108/F0	
2	41B/B7		108/G3	
3	41B/C2			
4	41B/D2			
5				
6				

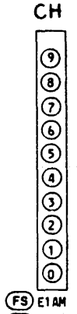
KEY (FT) CH E1CL



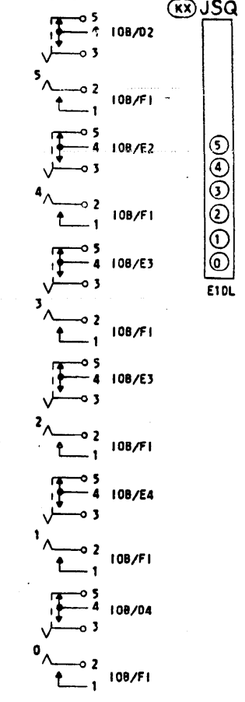
KEY (FS) CH E1AM



KEY TOP
CH



KEY (KX) JSQ E1DL



KEY TOP
(KX) JSQ

KEY OR KEY UNIT C1JG 2AP

KEY TOP

PART OF APP FIG. 11

RELAY									
DESIG	TKT3A								
CODE	AJ15								
OPTION	ZPM								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM								
11	EBM	50B/C7							
10	EBM	107A/D1							
9	EBM	105H0							
8	EMB								
7	EBM								
6	EMB								
5	EMB								
4	EBM								
3	EBM								
2	EBM								
1	EBM								
COIL		48/G5							

DRAWING ISSUE
51D
56D
59A
67D
70A
75B
76D
82D
83A
99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C23

BELL TELEPHONE LABORATORIES INCORPORATED — SHEET 65

SD-25800-01-C23

STABILO

PART OF APP FIG. 11

RELAY DESIG	BN			KIC			K1C1			KLT1			KTN2			KTNA			RI		
CODE	U286			U81			U144			U81			U144			U144			U286		
OPTION				NT			VX,YY						M			LN					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	39A/H0	12,11	M	70D6	12,11	M	a	12,11	M	39B/D6	12,11	M	39A/B1			
				10,9	M	33A/C4	10,9	M	70D8	10,9	M	3441	10,9	M	39B/D4	10,9	M	31A2			
				8,7	M	33A/D3	8,7	M	33A/C4	8,7	M	38C4	8,7	M	39B/C1	8,7	M	-			
				6,5	M	54B/C5	6,5	M	33A/C4	6,5	M	38C3	6,5	M	39B/D0	6,5	M	-			
	5,4	M	54A/A1	4,3	M	33A/C5	4,3	M	33A/C4	4,3	M	33A/F5	4,3	M	39B/G3	4,3	M	-	5,4	M	54A/A1
	3,2,1	BM	-	2,1	M	34C0	2,1	M	33A/C4	2,1	M	54B/F5	2,1	M	39B/G1	2,1	M	-	3,2,1	BM	-
BOT.	2,1	M	54A/D7	2,1	M	34C1	2,1	M	34E6	2,1	M	b	2,1	M	39B/H0	2,1	M	57A/B7	2,1	M	54A/D7
	4,3	M	57A/F1	4,3	M	34C4	4,3	M	78E6	4,3	M	34C1	4,3	M	39A/B1	4,3	M	57B/B3	4,3	M	57A/J1
				6,5	M	34C5	6,5	M	64C9	6,5	M	34C1	6,5	M	57B/A7	6,5	M	-			
				8,7	M	34C3	8,7	M	31F8	8,7	M	34C0	8,7	M	57B/A3	8,7	M	-			
				10,9	M	34A/C4	10,9	M	33A/F6	10,9	M	c	10,9	M	39B/C5	10,9	M	-			
				12,11	M	34A/E7	12,11	M	33A/H1	12,11	M	54A/E1	12,11	M	39B/C7	12,11	M	-			
COIL			54A/A1			20A/B2			20A/B3			3189			39A/D8			39A/D2			54A/A1

RELAY DESIG	SDR3			SDR4			TAN			TBI			TKT3			TOL			MC21		
CODE	U1324			U177			U991			U286			U1324			U991			U81		
OPTION	M			TK			M						M			M			ZWG		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							12,11	M	39B/D6										12,11	M	39A/H0
	11,10	M	39B/E4				10,9,8	BM	33A/D3				11,10	M	39B/E5	12,11	M	39B/E7	10,9	M	
	9,8,7	BM	26A/D4	9,8,7	BM	-	7,6	M	39A/G0				9,8,7	BM	54B/H5	10,9,8	BM	34E5	8,7	M	
	6,5,4	BM	39A/E0	6,5,4	BM	-	5,4	M	34B/F3	5,4	M	54A/A2	6,5,4	BM	39A/F0	7,6	M	39A/G0	6,5	M	54B/C5
	2,1,3	MB	39B/E7	3,2,1	BM	34B/B4	2,1,3	MB	105D4	3,2,1	BM	-	2,1,3	MB	39B/E7	5,4	M	34B/E3	4,3	M	
BOT.	2,1,3	MB	50B/B8	3,2,1	BM	-	2,1	M	39B/E4	2,1	M	54A/D8	2,1,3	MB	50B/B7	2,1,3	MB	39B/B3	2,1	M	39B/E4	2,1	M	33B/A1
	6,5,4	BM	50B/E5	6,5,4	BM	-	4,3	M	34B/B6	4,3	M	57A/G1	6,5,4	BM	50B/D5	4,3	M	34B/C3	4,3	M	
	9,8,7	BM	35A/H1	9,8,7	BM		6,5	M	33A/H3				9,8,7	BM	34B/B3	6,5	M	a	6,5	M	
	11,10	M	48/D4				9,8,7	BM	34B/A3				11,10	M	34B/C3	9,8,7	BM	33A/H4	8,7	M	
							11,10	M	31E8							11,10	M	31E8	10,9	M	34B/J6
COIL			48/F2			48/D5			34B/F3			54A/A2			48/F5			34B/E3			33B/E1
																					1184

a (NT) 33A/D4 (NQ) 38F6

DIODE OPT	DESIG	LOC	CODE
ZMW	1BI	54A/C2	446F

a	(ZVE)	54A/E1
	(ZVB)	11503
b	(NT)	34A/C2
	(NQ)	34B/F5
c	(ZVE)	54A/E1
	(ZQS)	57A/G3

(QZ) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 34F6 2 1 33A/H5 1 2 3 4 5 35A/E4

2DTI

2DT

5 4 3 2 1 1 2 3 4 5

34F6 (C) 34B/G2 (B) 35A/C2

(QZ) KEY TOP

2DT

2DTI C1DM OR 2BJ

(WC) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 34F6 2 1 33A/H5 1 2 3 4 5 35A/E4

2DTI

5 4 3 2 1 1 2 3 4 5

(C) (B)

(WC) KEY TOP

2DTI C1DM OR 2BJ

(OX) KEY OR KEY UNIT C1G 2C

(D) (A)

3 2 1 1 2 34A/C7 3

2DTO

3 2 1 1 2 3

(C) (B)

(OX) KEY TOP

2DTO C1G OR 2C

(OY) KEY OR KEY UNIT C1G 2C

(D) (A)

3 2 1 1 2 34A/C7 3

2DTO

3 2 1 1 2 3

(C) (B)

(OY) KEY TOP

LT3

2DTO C1G OR 2C

(UV) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 34B/F2 2 1 35A/D2 1 2 34E5 3 4 5

2DTT

FVDT

5 4 3 2 1 1 2 3 4 5

34B/F2 (C) 35A/D2 34A/D5 (B)

(UV) KEY TOP

FVDT

2DTT C1DM OR 2BJ

(YX,XP) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 2 1 1 2 3 4 5

2DT

5 4 3 2 1 1 2 3 4 5

34F6 (C) 34B/G2 (B) 35A/C2

(YX,XP) KEY TOP

2DT

C1DM OR 2BJ

(PA) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 2 1 1988 1 2 3804 3 4 5

E

5 4 3 2 1 1 2 3 4 5

(C) (B)

(PA) KEY TOP

E C1DM OR 2BJ

(PB) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 2 1 1988 1 2 3802 3 4 5

E

TTI

5 4 3 34D5 2 1 33A/H5 1 2 3 4 5

(C) (B)

(PB) KEY TOP

TTI

E C1DM OR 2BJ

(CY) KEY OR KEY UNIT C1S 2DH

(D) (A)

6 5 4 3 1906 2 1 1 2 3804 3 4 5 1907 6

E

TTI

6 5 4 3 2 1 1 2 3 4 5 6

34A/D6 (C) (B)

(CY) KEY TOP

TTI

E C1S OR 2DH

(ZE) KEY OR KEY UNIT C1G 2C

(D) (A)

3 2 1 3404 1 1 2 3

PHC

THC

3 2 1 1 2 3

3403 (C) (B)

(ZE) KEY TOP

THC

PHC C1G OR 2C

(WD) KEY OR KEY UNIT C1DM 2BJ

(D) (A)

5 4 3 2 1 1 2 3 4 5

TTI

5 4 3 2 1 1 2 3 4 5

34D5 33A/H5 (C) (B)

(WD) KEY TOP

TTI

C1DM OR 2BJ

KEY OR KEY UNIT C1N 2BD

(D) OR (B) (A) OR (C) THIS HALF OF KEY IN APP FIG. 14

3 2 1 1 2 3

NTC

SPL

6 5 4 3 2 1 1 2 3 4 5 6

35A/G4 36C1 3600 (NQ,F9) 35B/A6, 36C0

(C) OR (A) (B) OR (G)

KEY TOP

2BD

SPL SPL

NTC NTC

C1N

(NTC) HALF OF KEY IN APP FIG. 14

DRAWING ISSUE	
51D	NP MJ AP
53D	EW PM AG
57A	PM BW AP
58D	CW AP AE
62D	NC AJ AP
63D	PM AP
66A	WM AC AD
67D	XP
68A	CB
70A	CH
71D	AE
73D	
74A	
75B	
76D	
78D	
79A	
80D	
81A	
85A	

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-C24

SD-25800-01-C24

STABILO

PART OF APP FIG. 11

(ZVP) KEY
(ZVP) IC
E1CL

8 34A/G7
7
6 33A/H7
5
N
TAN
4 35A/E5
3
2 35A/D4
1

8
7
6 34B/H2
5
PC
4
3
2
1

8
7 34A/F5
6
5 34B/F2
TOL
4 35A/D7
3
2 39F5
1

8
7 34A/G6
6
5 34B/G2
TAN
4 35A/D6
3
2 35A/F3
1

8
7 34A/E4
6
5 34B/G2
FVD
4 35A/F2
3
2
1

8
7 34A/E3
6
5 33A/H6
AB
4 36E1
3
2
1

8
7 34A/F1
6
5 19A7
OBT
4
3
2 38F4
1

8
7 34A/F1
6
5 33A/H6
OB
4 36E0
3
2 38F3
1

8
7 34A/F0
6
5 19A7
OAT
4
3
2 38F4
1

8
7 34A/F0
6
5 33A/H6
OA
4 36E0
3
2 38F3
1

(ZVP) KEY TOP
IC

N TAN
PC
TOL
TAN
FVD
AB
OBT
OB
OAT
OA

E1CL

(EC) KEY OR KEY UNIT
CIG (D) 2C (A)

3408
3 2 1 1 2 3
FVDO
3 2 1 1 2 3
(C) (B)

(EC) KEY TOP
FVDO
CIG OR 2C

(NQ) KEY OR KEY UNIT
CIS 2DH

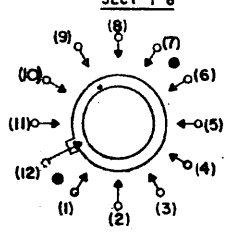
(D) (A)

3BE3
6 5 4 3 2 1 1 2 3 4 5 6
ETHC
THC
6 5 4 3 2 1 1 2 3 4 5 6
3BE3
(C) (B)

(NQ) KEY TOP
THC
ETHC
CIS OR 2DH

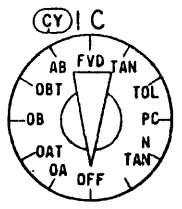
SWITCH
(CY) IC, (NQ) TRNB

SECT 1-6



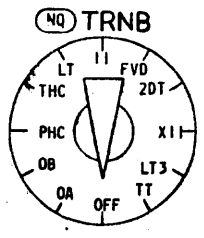
SWITCH TOP

(CY) IC



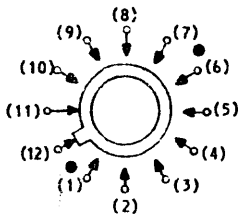
SWITCH TOP

(NQ) TRNB



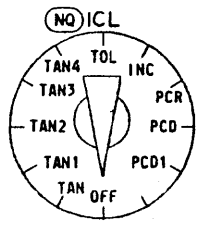
SWITCH
(NQ) ICL, (NQ) CL, (NQ) TRNC

SECT 1-6



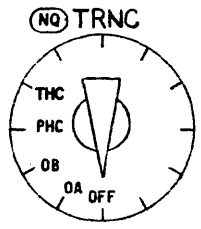
SWITCH TOP

(NQ) ICL



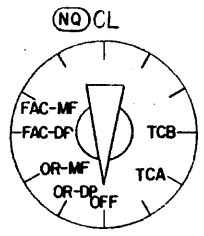
SWITCH TOP

(NQ) TRNC



SWITCH TOP

(NQ) CL

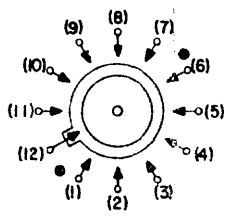


LAMP

	DESIG	LOC	CODE
	BN	54A/C6	
	RI	54A/C7	
(M)	TAN	34B/F4	2Y
	TBI	54A/C7	
(M)	TOL	34B/E4	

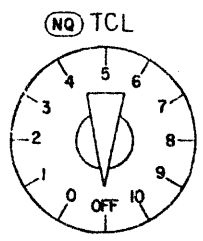
SWITCH
(NQ) TCL

SECT 1-3



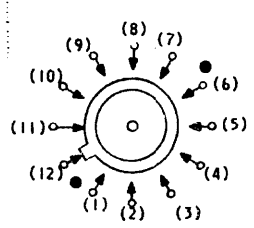
SWITCH TOP

(NQ) TCL



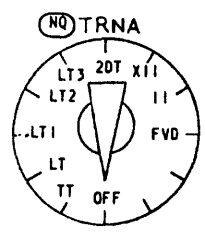
SWITCH
(NQ) TRNA

SECT 1,2



SWITCH TOP

(NQ) TRNA



SWITCH SECTIONS
SHOWN IN "OFF" POSITION

SWITCH

DESIG	TC	TCL	TRNA	TRNB	TRNC	CL	TCL
CODE	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618
LIST	43	51	52	43	51	51	40
OPTION	CY	NQ	NQ	NQ	NQ	NQ	NQ
SECT. NO							
1	34B/E1	35B/A2	35C/A5	38F2	35C/E5	35C/A0	35B/D5
2	34A/H4	34B/C1	34B/A6	34B/E7		33B/A2	19A8
3	38F4	34B/A1				34B/D0	
4	38F4	33B/C2					
5	34A/F2	35C/G5					
6	34A/E2						

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT

SD-25800-01-C25

ISSUE 99A

6S

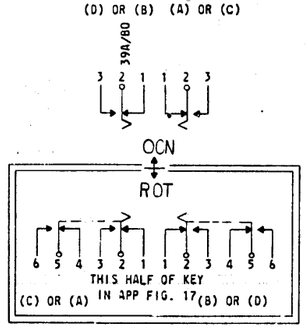
2

APP FIG. 12

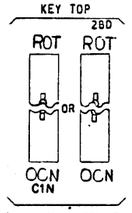
RELAY																							
DESIG	KTB			KTN			KTN1			KTN1													
CODE	U57			U57			U1301			U57													
OPTION	N			M			LI			LJ													
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	10,9	M	39C/C2	10,9	M	39C/C3				10,9	M	39C/C1											
	8,7	M	39C/C2	8,7	M	39C/C3				8,7	M	-											
	6,5	M	39C/C2	6,5	M	39C/C3	6,5	M	39C/C6	6,5	M	39C/C6											
	4,3	M	39C/C2	4,3	M	39C/C3	4,3	M	39C/C6	4,3	M	39C/C6											
	2,1	M	39C/C2	2,1	M	39C/C3	2,1	M	39C/C6	2,1	M	39C/C6											
BOT.	2,1	M	39C/C4	2,1	M	39C/C5	2,1	M	39C/C6	2,1	M	39C/C6											
	4,3	M	39C/C4	4,3	M	39C/C5	4,3	M	39C/C6	4,3	M	39C/C6											
	6,5	M	39C/C4	6,5	M	39C/C5	6,5	M	39A/B0	6,5	M	39A/B0											
	8,7	M	39C/C4	8,7	M	39C/C5				8,7	M	-											
	10,9	M	39C/C4	10,9	M	39C/C5				10,9	M	-											
COIL			3889			39A/D0			39A/D1			39A/D1											

KEY (PD) KEY UNIT
C1N OR 2BD

(D) OR (B) (A) OR (C)



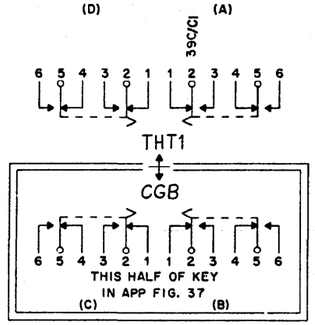
(PD)
KEY TOP
2BD



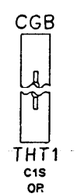
(ROT) HALF OF KEY
IN APP FIG. 17

KEY (GD) KEY UNIT
C1S OR 2DH

(D) (A)



(GD)
KEY TOP

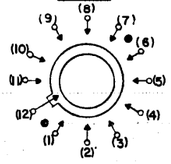


(CGB) HALF OF KEY
IN APP FIG. 37

SWITCH

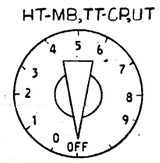
HT-MB, TT-CP, UT

SECT 1, 2



SWITCH TOP

HT-MB, TT-CP, UT

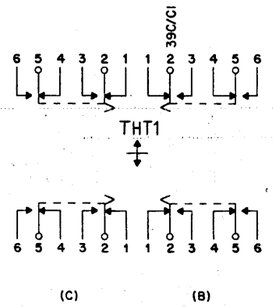


SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	HT-MB	TT-CP	UT
CODE	KS-14618	KS-14618	KS-14618
LIST	39	39	39
OPTION	JF	JF	JF
SECT. NO.			
1	39C/E0	39C/F4	39C/F6
2	39C/E0	39C/F4	39C/F6

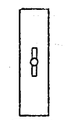
(GE)
KEY OR KEY UNIT
C1S 2DH

(D) (A)



(C) (B)

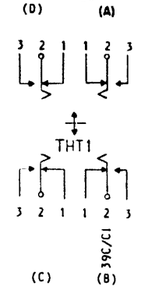
(GE)
KEY TOP



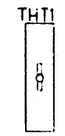
KEY E1AM	(H) HT-MB	(H) TT-CP	(JN) UT
4 3 9 2 1	39C/E3	39C/D5	39C/E8
	39C/D3	39C/E6	39C/D7
4 3 8 2 1	39C/F3	39C/D5	39C/F8
	39C/D2	39C/F6	39C/D7
4 3 7 2 1	39C/F3	39C/D4	39C/F8
	39C/D2	39C/F6	39C/D7
4 3 6 2 1	39C/E3	39C/E5	39C/E8
	39C/E3	39C/E5	39C/E7
4 3 5 2 1	39C/F3	39C/E5	39C/F8
	39C/E2	39C/F5	39C/E7
4 3 4 2 1	39C/F3	39C/E4	39C/F8
	39C/E2	39C/F5	39C/E7
4 3 3 2 1	39C/F3	39C/F5	39C/F7
	39C/F2	39C/F5	39C/F7
4 3 2 2 1	39C/F3	39C/F4	39C/F7
	39C/F2	39C/F5	39C/F7
4 3 1 2 1	39C/F2	39C/F4	39C/F7
	39C/F2	39C/F5	39C/F7
4 3 0 2 1	[illegible]C/D3	39C/D5	39C/D8
	39C/D3	39C/D6	39C/D8

(H) KEY TOP HT-MB — E1AM
(H) KEY TOP TT-CP — E1AM
(JN) KEY TOP UT — E1AM

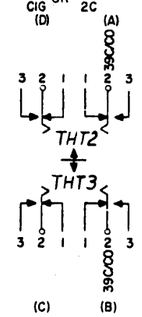
(LK) KEY OR KEY UNIT
C1G 2C
(D) (A)



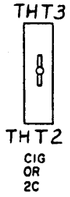
(LK) KEY TOP



(ZQJ) KEY OR KEY UNIT
C1G 2C
(D) (A)



(ZQJ) KEY TOP



DRAWING ISSUE

540	DS AA AM
580	CW BA BM
630	EA BB BM
780	
800	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C26

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C26

PART OF APP FIG. 13

RELAY

DESIG	F	FB	FT	JHN	KF2	KINC	KITC
CODE	U106	U73	U1315	-460	U1324	U81	U81
OPTION			M		M		

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	78A1													12,11	M	33B/C5	12,11	M	78A0
	10,9	M	40B8													10,9	M	64C8	10,9	M	38C3
	8,7	M	64C7	9,8	M	87E4							11,10	M	53B/E5	8,7	M	53B/D5	8,7	M	38C3
	6,5	M	38H0	7,6	M	50B/C9							9,8,7	BM	20A/D3	6,5	M	52A/B3	6,5	M	38C2
	4,3	M	64D8	5,4	M	37B/D6	5,4	M	50B/A6	5,4	M	52A/B5	6,5,4	BM	31D2	4,3	M	64C8	4,3	M	38C2
	2,1	M	37B/H3	2,1,3	MB	52A/B3	3,2,1	BM	50B/B7	3,2,1	BM	52A/B4	2,1,3	MB	48/F5	2,1	M	56B/D3	2,1	M	38C2
BOT.	2,1,3	MB	37A/F7	3,2,1	BM	37B/D8	2,1	M	78A1	3,2,1	BM	52A/C7	2,1,3	MB	58/E1	2,1	M	38B9	2,1	M	38C1
	5,4	M	a	5,4	M	37B/D7	4,3	M	50B/C6	5,4	M	-	6,5,4	BM	37B/F0	4,3	M	50B/C8	4,3	M	38C1
	7,6	M	37A/F6	7,6	M	37B/D7							9,8,7	BM	48/G2	6,5	M	64D7	6,5	M	38C1
	9,8	M	37A/D4	9,8	M	37A/E3							11,10	M	37B/F0	8,7	M	37B/D0	8,7	M	38C0
	11,10	M	66A3													10,9	M	55A8	10,9	M	34H1
																12,11	M	52A/B2	12,11	M	38C0
COIL			37B/H0			37B/D3			37B/H1			52A/B8			51E9			51A3			38A9

a: DI 37A/E5; DO 37B/H2

RELAY

DESIG	KLT	KLT	KRN	KRS	LC	LLIK	LS
CODE	U136	U144	U1301	U81	U165	U1019	U1228
OPTION	WA	WB	N			ZOZ	M

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	54A/C0				12,11	M	40A2									
	10,9	M	31B9	10,9	M	31B2				10,9	M	40B2									
	8,7	M	44B/F6	8,7	M	44B/F6				8,7	M	40B2									
	6,5	M	44B/F4	6,5	M	44B/F4	6,5	M	-	6,5	M	40C2				7,6	M	57B/A0			
	4,3	M	44B/F2	4,3	M	44B/F2	4,3	M	38C6	4,3	M	40D2				5,4	M	30E3	4,3	M	50B/C7
	2,1	M	54A/E3	2,1	M	54A/E3	2,1	M	38C7	2,1	M	40D2	3,2,1	BM	52B4	3,2,1	BM	-	2,1	M	50B/B7
BOT.	2,1	M	37B/D0	2,1	M	37A6	2,1	M	38C7	2,1	M	40B/E2	2,1	M	37B/D7	3,2,1	BM	-	2,1	M	50B/C6
	4,3	M	6409	4,3	M	6409	4,3	M	38C8	4,3	M	40A/E2				5,4	M	-			
	6,5	M	52A/B2	6,5	M	52A/B2	6,5	M	38C8	6,5	M	40A/E2				7,6	M	57A/F0			
	8,7	M	52A/C3	8,7	M	52A/C3				8,7	M	40A/F2									
				10,9	M	38C4				10,9	M	40A8									
				12,11	M	54A/D5				12,11	M	40A/F2									
COIL			31A9			31A9			38D9			40B9			37B/E7			54A/B1			50B/A6

RELAY

DESIG	PBX	RC	RS0	RS1	RS2	RS3	RS4
CODE	U165	U165	U1235	U1235	U1235	U1235	U1235
OPTION							OH

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
							4,3	M	40A6	4,3	M	40A6	4,3	M	40A6	4,3	M	40A6	4,3	M	40A6
	3,2,1	BM	37A/E8	3,2,1	BM	37A/D6	2,1	M	40F6	2,1	M	40C6	2,1	M	40B6	2,1	M	40B6	2,1	M	40C6
BOT	2,1	M	37A/C4	2,1	M	37A/E7	2,1	M	40A4	2,1	M	40B4	2,1	M	40C4	2,1	M	40C4	2,1	M	40D4
COIL			37A/C4			37A/C6			40A3			40B3			40B3			40C3			40D3

RELAY

DESIG	RS4	RS5	RS5	RS6	RS7	RS8	RS9
CODE	U244	U1235	U244	U1235	U1235	U1235	U127
OPTION	OI	OH	OI				

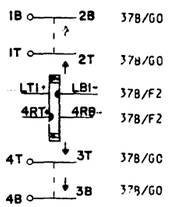
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP																					
	6,5	M	40A/G4				6,5	M	40A/G8										7,6	M	40A6
	4,3	M	40A6	4,3	M	40A6	4,3	M	40A6	4,3	M	40A6	4,3	M	40A6	4,3	M	40A6	5,4,3	BM	40F6
	2,1	M	40C6	2,1	M	40C6	2,1	M	40C4	2,1	M	40D6	2,1	M	40D6	2,1	M	40E6	2,1	B	28A/B6
	2,1	M	40D4	2,1	M	40D4	2,1	M	40D4	2,1	M	40A/E4	2,1	M	40A/E4	2,1	M	40A/E4	3,2,1	BM	40F6
BOT.	5,4,3	BM	-				5,4,3	BM	-										5,4	M	40A/F4
COIL			40D3			40D3			40D3			40A/E3			40A/E3			40A/E3			40A/F3

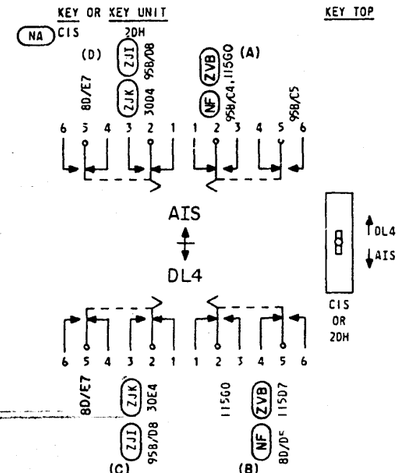
RELAY

DESIG	RSH	TC	TM	CSW	FC				
CODE	U1248	U165	U1375	U1238	U73				
OPTION			M	YW	IY				

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP													9,8	M	37A/E0						
													7,6	M	37A/E2						
	4,3	M	28A/E6				5,4	M	-	4,3	M	28A/E6	5,4	M	37A/E5						
	2,1	M	37A/C6	3,2,1	BM	28A/D6	3,2,1	BM	55C3	2,1	B	40A7	2,1,3	MB	-						
	2,1	M	40A4	2,1	M	37A/C5	3,2,1	BM		2,1	M	-	3,2,1	BM	-						
BOT.							5,4	M	54A/D0				5,4	M	10504						
													7,6	M	-						
													9,8	M	37A/E2						
COIL			37A/C7			37A/C5			57A/B8			40A/F3			37B/E2						

RELAY
(M) F2
2668





ISSUE 99A

MASTER TEST CONTROL CIRCUIT 2

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C27

E-94228-0-2(11-68)

SD-25800-01-C28

PART OF APP FIG. 13

KEY OR KEY UNIT
C1G 2C
(D) (A)
56B/C3 55A7
3 2 1 1 2 3
LR
DCK
3 2 1 1 2 3
56B/C3
(C) (B)

(PF)
KEY OR KEY UNIT
C1DK 2BF
(D) (A)
THIS HALF OF KEY IN APP FIG.32
2 1 1 2
NGT
NN
2 64D8 1 1 94G6 2
(C) (B)

KEY OR KEY UNIT
C1DK 2BF
(D) (A)
64D8 94G6
2 1 1 2
NH
NT
2 64D7 1 1 94F6 2
(C) (B)

(UW)
KEY OR KEY UNIT
C1G 2C
(D) (A)
115E8 54B/D1
3 2 1 1 2 3
ND
RO
3 33B/C6 1 1 33A/D1 2 3
(C) (B)

(TL)
KEY OR KEY UNIT
C1DK 2BF
(D) (A)
54B/D1
2 1 1 2
ND
RO
2 33B/B6 1 2
(C) (B)

(PE)
KEY OR KEY UNIT
C1DK 2BF
(D) (A)
2 1 1 2
NN
2 64D8 1 1 2
(C) (B)

(BV) KEY TOP — NTL — CNT — C1G OR ZC
KEY TOP — DCK — LR — C1G OR 2C
(PE) KEY TOP — NN — C1DK OR 2BF
(PF) KEY TOP — NN — NGT — C1DK OR 2BF
KEY TOP — NT — NH — C1DK OR 2BF
(TL) KEY TOP — RO — ND — C1DK OR 2BF
(UW) KEY TOP — RO — ND — C1G OR 2C

(NGT) HALF OF KEY IN APP FIG. 32

(WL) KEY TOP — ITC RN — EICL
(WK) KEY TOP — ITC RN — EICL

(BV)
KEY OR KEY UNIT
C1G ZC
(D) (A)
78A1 64C9
3 2 1 1 2 3
CNT
NTL
3 2 1 1 2 3
37A/E4
(C) (B)

KEY E1CL (WL) ITC RN

NP 9	38E1	
	38D7	
	38D3	
SP 8	38E1	
	38D7	
	38E8	
RN 7	38E1	
	38D6	
	38F8	
NT 6	38E1	
	38D7	
	38D8	
ST 5	38E1	
	38D7	
	38E8	
NE 4	38E1	
	38D6	
	38F8	
NA 3	38E1	
	38E7	
	38E7	
SA 2	38E1	
	38E6	
	38F7	
SE 1	38E1	
	38F6	
	38F7	
NN 0	38E0	
	38D8	
	38D8	

KEY E1CL (WK) ITC RN

FP 9	38E1	
	38D7	
	38D8	
MP 8	38E1	
	38D7	
	38E8	
TP 7	38E1	
	38D6	
	38F8	
FT 6	38E1	
	38D7	
	38D8	
MT 5	38E1	
	38D7	
	38E8	
TT 4	38E1	
	38D6	
	38F8	
FB 3	38E1	
	38E7	
	38E7	
MB 2	38E1	
	38E6	
	38F7	
TB 1	38E1	
	38F6	
	38F7	
0	38E1	
	38D8	
	38D8	

LAMP DESIG		LOC	CODE
	1	40D6	
ZOR	1+	40D6	
	2	40B5	
XT	2+	40B6	
XO	2+	40E6	
XS	3	40B6	
XU	3+	40B6	
	4	40C6	
ZOR	5	40C6	
	BY	40G6	
	FL	28A/A6	
XR	FL1	40E6	
	OFL	40F6	
	PBX	37A/D8	
	TP	40F6	
	RP	40E6	

~~2Y~~ MI

RESISTOR DESIG	LOC	CODE
M TM	37B/F0	18AG

SWITCH
ITC-RN

SECT 1-3
(3) (7) (6) (5) (4) (3) (2) (1) (12) (11) (10) (9)

SWITCH TOP
ITC-RN
0 1 2 3 4 5 6 7 8 9 OFF

SWITCH
(SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	ITC-RN
CODE	KS-14618
LIST	40
OPTION	JF
SECT NO.	X
1	38G6
2	38G7
3	38G0

MASTER TEST CONTROL	IT
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S
	SD-25800-01-C28
	ISSUE 98B

DRAWING ISSUE	
51D	W/ 64A
52D	W/ 64A AND 64D
53D	W/ 64A AND 64D AND 65D
54D	W/ 64A AND 64D AND 65D AND 66D
55D	W/ 64A AND 64D AND 65D AND 66D AND 67D
56D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D
57D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D
58D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D
59D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D
60D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D
61D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D
62D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D
63D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D
64D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D
65D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D
66D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D
67D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D
68D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D
69D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D
70D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D
71D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D
72D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D
73D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D
74D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D
75D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D
76D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D
77D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D
78D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D
79D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D
80D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D
81D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D
82D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D
83D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D
84D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D
85D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D
86D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D
87D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D
88D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D
89D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D
90D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D
91D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D
92D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D
93D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D
94D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D
95D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D
96D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D
97D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D
98D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D
99D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D
100D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D
101D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D
102D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D
103D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D AND 115D
104D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D AND 115D AND 116D
105D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D AND 115D AND 116D AND 117D
106D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D AND 115D AND 116D AND 117D AND 118D
107D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D AND 115D AND 116D AND 117D AND 118D AND 119D
108D	W/ 64A AND 64D AND 65D AND 66D AND 67D AND 68D AND 69D AND 70D AND 71D AND 72D AND 73D AND 74D AND 75D AND 76D AND 77D AND 78D AND 79D AND 80D AND 81D AND 82D AND 83D AND 84D AND 85D AND 86D AND 87D AND 88D AND 89D AND 90D AND 91D AND 92D AND 93D AND 94D AND 95D AND 96D AND 97D AND 98D AND 99D AND 100D AND 101D AND 102D AND 103D AND 104D AND 105D AND 106D AND 107D AND 108D AND 109D AND 110D AND 111D AND 112D AND 113D AND 114D AND 115D AND 116D AND 117D AND 118D AND 119D AND 120D

APP FIG. 14

RELAY

DESIG	F1			LHM			LHMA			LHMA			LK1			NTB			NTC		
CODE	U81			U541			U541			U112			U419			U1327			U503		
OPTION							RS			RT											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	9B3																		
	10,9	M	9A8																		
	8,7	M	9A8																		
	6,5	M	9A8							6,5	M	5IB/B7				7,6	M	9A2	9,8,7	BM	20A/F1
	4,3	M	9A8							4,3	M	5IB/A7				5,4,3	BM	9B3	6,5,4	BM	9B2
	2,1	M	9A8	3,2,1	BM	5IA/C3	3,2,1	BM	52B/B5	2,1	M	52B/B5	3,2,1	BM	9D5	2,1	B	9A2	3,2,1	JM	9A2
BOT.	2,1	M	9A8	2,1	M	52B/A8	2,1	M	5IB/C7	2,1	M	5IB/C7	2,1	M		2,1,3	MB	9C4	3,2,1	BM	53A/D0
	4,3	M	9A8	4,3	M	53B/E1	4,3	M	5IB/H7	4,3	M	5IB/H7	4,3	M	53A/D2	5,4	M	10B/G7	4,5,4	BM	10B/G6
	6,5	M	9A8																8,7	M	9C2
	8,7	M	9C2																		
	10,9	M	10B/G6																		
	12,11	M	1B/D9																		
COIL			9B3			52B/B9			52B/A9			52B/A9			55B4			9C4			9F5

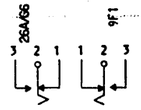
RELAY

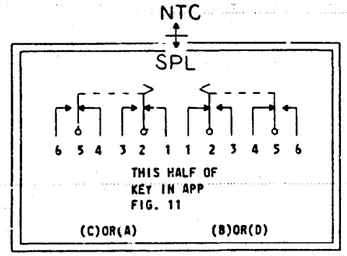
DESIG	NTC1			NTH			SCB			SCB			SCBI								
CODE	U611			U188			U419			U351			U1053								
OPTION							FQ			FR			ZZZ								
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	a															
				10,9,8	BM	9C3							11,10	M							
	9,8,7	BM	50B/E3	7,6	M	904				8,7	M	-	9,8,7	BM	76G8						
	6 5,4	BM	50A/F1	5,4	M	50A/E2				6,5,4	BM	76H3	6,5,4	BM	76B7						
	3,2,1	BM	50A/E1	2,1,3	MB	53A/E2	3,2,1	BM	52B/D4	3,2,1	BM	52B/D4	2,1,3	MB							
BOT.	3,2,1	BM	52B/C6	2,1,3	MB	18/E9	2,1	M	904	3,2,1	BM	58C7	3,2,1	BM	52B/E6						
	6,5,4	BM	52B/F5	5,4	M	50A/F2	4,3	M	53A/D2	5,4	M	904	5,4	M	53A/C3						
	9,8,7	BM	20B/D2	7,6	M	52B/A8				7,6	M	53A/D2	8,7,6	BM							
				10,9,8	BM	5IA/C4							10,9	M	76E8						
				12,11	M	53B/E0															
COIL			9G5			52B/B9			53B/B2			53B/B2			53A/B2						

a (ZZV) 50B/F3
(ZZW) 50B/F2

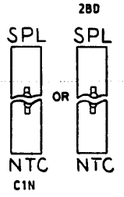
KEY OR KEY UNIT
C1N 2B0

(D)OR(B) (A)OR(C)





KEYTOP



(SPL) HALF OF KEY IN APP FIG. 11

LAMP

DESIG	LOC	CODE
NTB	9A3	24 MI

RELAY

DESIG								
CODE								
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12								
11								
10								
9								
8								
7								
6								
5								
4								
3								
2								
1								
COIL								

DRAWING ISSUE

51D	NP 5AH AMD
57A	LF 5AH AMD
59A	DB AMD
60D	AJL AMD
65D	GE AMD
65D	WM NC AMD
66A	WM AC AMD
67D	SLK
7 D	RJF
730	
744	
760	
780	

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-C29

6S

STABILO

PART OF APP FIG. 15

RELAY	CON			CT1			CT2			CT3			CT3			CT4			CT4		
DESIG	CON			CT1			CT2			CT3			CT3			CT4			CT4		
CODE	U300			U467			U467			Y109			Y316			U467			Y220		
OPTION	DS									RS			RT			RS			RT		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	9,8	M	51A/F6																		
	7,6	M	57B/F3										6,5	M	51A/D8				7,6	BM	-
	5,4	M	51A/F3	5,4	M	-	5,4	M	-	4,3	M	51A/E8	4,3	M	51A/E8	5,4	M	51A/F2	5,4,3	BM	51A/F2
	3,2,1	BM	51B/C6	3,2,1	BM	51B/C0	3,2,1	BM	51B/H0	2,1	M	51A/D8	2,1	B	51B/B2	3,2,1	BM	57B/F3	2,1	B	51B/E0
BOT.	2,1	B	51B/A6	2,1	B	-	2,1	B	-	3,2,1	BM	51B/C0	3,2,1	BM	51B/C0	2,1	B	51B/E0	3,2,1	BM	57B/F3
	5,4,3	BM	51B/H6	4,3	M	51A/C8	4,3	M	51A/D8	5,4	M	57B/F3	5,4	M	57B/F3	4,3	M	51A/F6	6,5,4	BM	51A/F6
	7,6	M	51A/D7																8,7	M	51B/B2
COIL			51A/F4			51A/C6			51A/C9			51A/D9			51A/D9			51A/E9			51A/E9

RELAY	HMS1			MC7			MC14			PBX1			PU			PU1			SL		
DESIG	HMS1			MC7			MC14			PBX1			PU			PU1			SL		
CODE	U580			U81			U1113			U580			U480			U662			U580		
OPTION	IC						LW			ZL						DS					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	a															
				10,9	M	55B2															
				8,7	M	51B/C3	10,9	M	54B/E6												
				6,5	M	51B/H3	8,7	M	84GB							6,5	M	52B/C2			
				4,3	M	51B/H7	6,5,4	BM	84H8							4,3	B	51B/C6			
	3,2,1	BM	51B/C9	2,1	M	51B/C7	3,2,1	BM	74D8	3,2,1	BM	-	3,2,1	BM	51A/D4	2,1	B	52B/C2	3,2,1	BM	51B/D3
BOT.	3,2,1	BM	51B/A8	2,1	M	51A/F3	3,2,1	BM	74B8	3,2,1	BM	51B/F5	2,1	M	-	2,1	B	51B/C6	3,2,1	BM	52A/B6
				4,3	M	51B/B2	6,5,4	BM	97A7				4,3	M	-	4,3	B	51A/D5			
				6,5	M	51A/E3	8,7	M	84F9												
				8,7	M	53A/F8	10,9	M	97A7												
				10,9	M	51A/C1															
				12,11	M	52B/C6															
COIL			53A/E8			11B6			11E6			51A/E4			51A/D6			51A/D4			52A/C6

(ZYC) 53A/F1

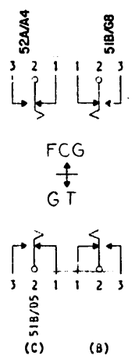
a (ZZX) 92E5

RELAY	HMS1			CON			PU1														
DESIG	HMS1			CON			PU1														
CODE	U254			U768			U357														
OPTION	ID			DT			DT														
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				10,9	M	51A/F3	8,7	M	52B/C2												
				8,7	M	57B/F3	6,5	B	51B/B5												
	5,4	M	51A/B6	6,5,4	BM	51B/B6	4,3	B	51B/C6												
	3,2,1	BM	51B/C8	3,2,1	BM	51B/C6	2,1	B	52B/C2												
BOT	3,2,1	BM	a	3,2,1	BM	51B/A5	2,1	B	51B/C6												
	5,4	M	51B/A8	6,5,4	BM	51B/A6	4,3	B	51A/C5												
				8,7	M	51A/D7	6,5	B	51B/B5												
				10,9	M	51A/F6	8,7	M	-												
COIL			53A/E8			51A/F4			51A/D4												

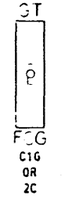
a (ZSS) 51B/A8

(ZOH) 53A/C1

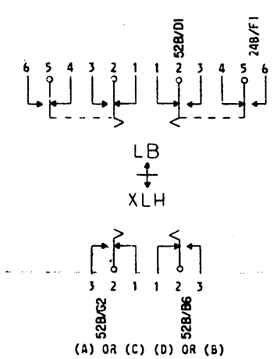
KEY OR KEY UNIT C1G 2C — (D) (A)



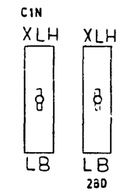
KEY TOP



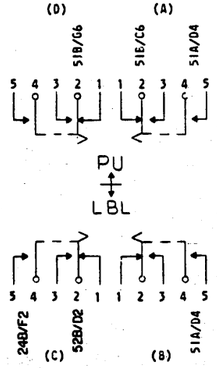
KEY OR KEY UNIT C1N 28D — (B) OR (D) (C) OR (A)



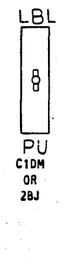
KEY TOP



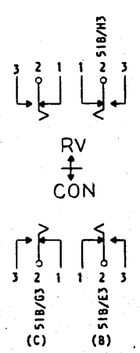
KEY OR KEY UNIT C1DM 2BJ — (D) (A)



KEY TOP

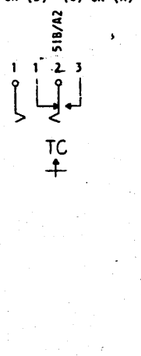


KEY OR KEY UNIT C1G 2C — (D) (A)

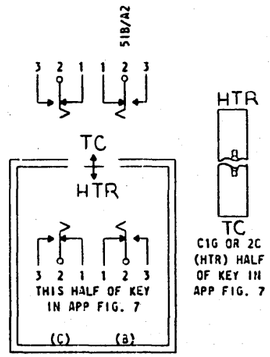


KEY TOP

(WQ) KEY OR KEY UNIT C1EJ 2GH — (B) OR (D) (C) OR (A)

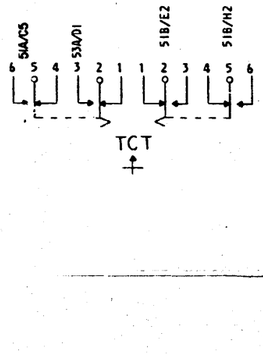


(WR) KEY OR KEY UNIT C1G 2C — (D) (A)

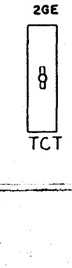


(WR) KEY TOP

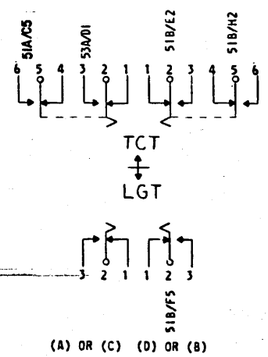
(ZL) KEY OR KEY UNIT C1GW 2GE — (B) (C)



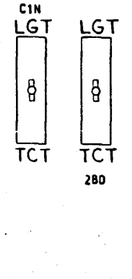
(ZL) KEY TOP



(ZM) KEY OR KEY UNIT C1N 28D — (B) OR (D) (C) OR (A)



(ZM) KEY TOP



DRAWING ISSUE	
51D	NP
53D	
57A	
58D	
59A	
60D	
63D	
65D	
67D	
68A	
71D	
74A	
75B	
76D	
79A	

ISSUE 86D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C30

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

PART OF APP FIG. 15

LAMP

DESIG	LOC	CODE
TCT	51A/F9	2Y MI

RESISTOR

DESIG	LOC	CODE
(WP) CA	51B/A0	18KF
(WO) CA	51B/A0	40AN
CB	51B/A1	18FN
(WP) CC	51B/G1	~~T06A~~,KS-20810,L1A,10kΩ ± 1%
(WO) CC	51B/G1	40AN
(WP) CD	51B/F1	~~T07A~~,~~30kΩ~~,KS-20810 L1A,29.9kΩ ± 1%
(WO) CD	51B/G1	40AN
(WP) CE	51B/F2	~~T07A~~,~~40kΩ~~,KS-20810,L1A,39.7kΩ ± 1%
(WO) CE	51B/G1	40BK
(TF) CE1	51B/F1	~~T07A~~,~~40kΩ~~,KS-20810,L1A,39.7kΩ ± 1%
(WP,VC) CF	51B/F3	~~T07A~~,~~60kΩ~~,KS-20810,L1A,59.7kΩ ± 1%
(WO) CF	51B/G3	40BK
(WP,TG,VD) CF	51B/F3	~~T07A~~,~~90kΩ~~,KS-20810,L1A,89.8kΩ ± 1%
(WO,VB) CF1	51B/F3	~~T07A~~,~~30kΩ~~,KS-20810,L1A,29.8kΩ ± 1%
(WO) CG	51B/E3	40BK
(WP) CH	51B/E1	~~T06A~~,KS-20810,L1A,11kΩ ± 1%
(WO) CH	51B/E1	40BH
(WO) CJ	51B/C1	40AB
(VD) CJ	51B/D1	~~T07A~~,KS-20810,L1A,32kΩ ± 1%
(VC) CJ	51B/D1	~~T07A~~,~~22kΩ~~,KS-20810,L1A,21.8kΩ ± 1%
(VB) CJ1	51B/D1	~~T06A~~,KS-20810,L1A,10kΩ ± 1%
(TF) CJ2	51B/C1	~~T07A~~,KS-20810,L1A,20.3kΩ ± 1%
CK	51B/B1	19DC
CL	51B/A0	18FR
CM	51B/A1	19MW
EXT	53A/B0	18AG
(GA) FA	51B/E9	~~T07A~~,KS-20810,L1A,59kΩ ± 1%
(GB) FA	51B/E7	~~T07A~~,KS-20810,L1A,28kΩ ± 1%
(ZYK) FA	51B/F8	40BK
(WO) FB	51B/E8	40AN
(WO) FC	51B/E8	40BR
(WO,VP) GA	51B/E6	18KP
(WO,VQ) GA	51B/E6	18DR
(WP,VN) GA	51B/E6	~~T06A~~,~~2.42Ω~~,KS-20810,L1A,2430 ± 1%
(WP,VO) GA	51B/E4	~~T06A~~,~~3.73Ω~~,KS-20810,L1A,3740 ± 1%
(WP) GB	51B/E6	~~T06A~~,~~7.57Ω~~,KS-20810,L1A,7590 ± 1%
(WO) GB	51B/E6	19ME
(WO) GC	51B/E7	18EP
(WO) GD	51B/F6	18FR
(WO) GE	51B/F6	18FS
LHM	52B/B8	18AF
PA	51B/G6	19EF
PB	51B/F6	59E
XLH	52B/B7	18DB
(VU) XLH1	52B/G3	18CR

DRAWING ISSUE

51D	NP
58D	
60D	DM
64A	
65D	
71D	
76D	

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C31

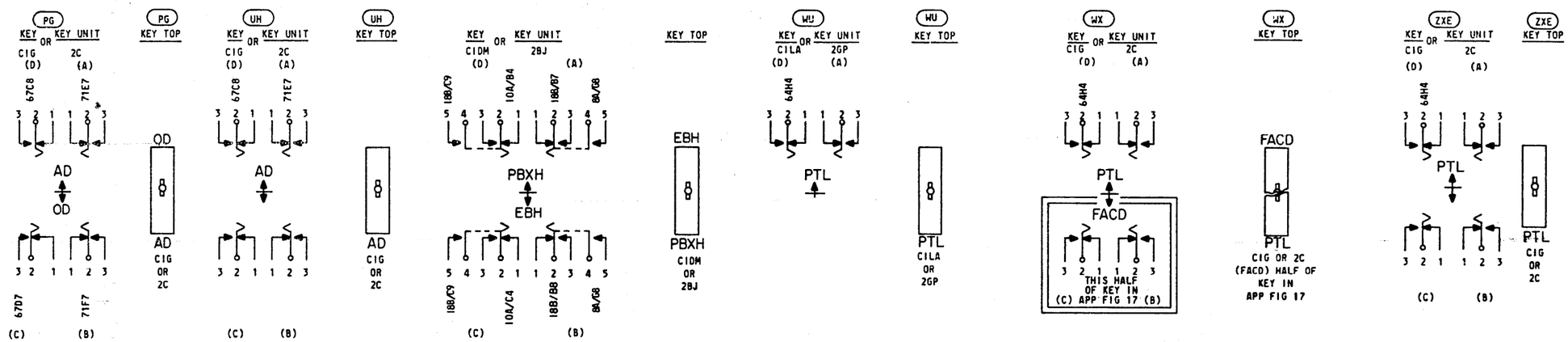
BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

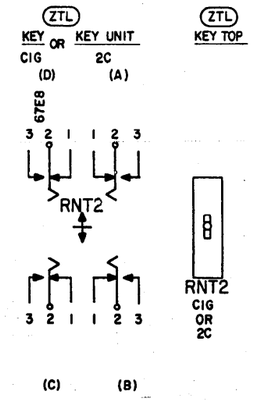
SD-25800-01-C3L

PART OF APP FIG. 16

RELAY	KNT			KPBX			LF1			M			MPT			MPTA			NTT		
DESIG	U57			U81			U1324			U1319			U224			U679			U90		
CODE							B,ZR			B,ZR			B,ZR			YD			B,ZR		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
				12,11	M	-															
TOP	10,9	M	64C7	10,9	M	188/F3															
	8,7	M	64G0	8,7	M	188/F3	11,10	M	64G8	9,8	M	64C0									
	6,5	M	64G3	6,5	M	188/F3	9,8,7	BM	64H7	7,6	M	-	8,7	M	64D0				7,6	M	64D0
	4,3	M	64G4	4,3	M	188/F3	6,5,4	BM	64F0	5,4	M	64D0	6,5,4	BM	64F4	5,4	M	64E2	5,4	M	64G8
	2,1	M	64G0	2,1	M	188/F3	2,1,3	MB	64D1	3,2,1	BM	64F0	3,2,1	BM	64G7	3,2,1	BM	-	3,2,1	BM	64H5
BOT.	2,1	M	64H8	2,1	M	188/F3	2,1,3	MB	64G9	2,1	B	64C1	2,1	B	64B0	3,2,1	BM	64F2	2,1	M	-
	4,3	M	64H3	4,3	M	188/F3	6,5,4	BM	64G4	5,4,3	BM	64F3	5,4,3	BM	64G1	5,4	M	-	4,3	M	-
	6,5	M	-	6,5	M	188/F3	9,8,7	BM	64H5	7,6	M	64G9	7,6	M	64G9				6,5	M	64H7
	8,7	M	64C7	8,7	M	188/F3	11,10	M	64C0												
	10,9	M	64G3	10,9	M	188/F3															
				12,11	M	-															
COIL			64C7			188/A8			64C1			64B0			64E0			64E2			64E0

RELAY	W			Z			LF			LF											
DESIG	U497			U420			280AS			239HL											
CODE							ZR			B											
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
				5,4	M	-															
	3,2,1	BM	-	3,2,1	BM	188/A8	4,7,3	BM	64C1	4,7,3	BM	64C1									
BOT.	2,1,3	MB	188/C9	3,2,1	BM	188/C9															
COIL			188/A9			188/B9			64G3			64G3									





DRAWING ISSUE		
58D	DS	CB
58D		CB
63D	GS	CB
66A	CE	CB
67D	SM	CB
DRAWING REFURBISHED WITHOUT CHANGE 2-20-68 NSC		
70A	CH	CB
83A		CB

ISSUE 99A CB

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C32

BELL TELEPHONE LABORATORIES INCORPORATED

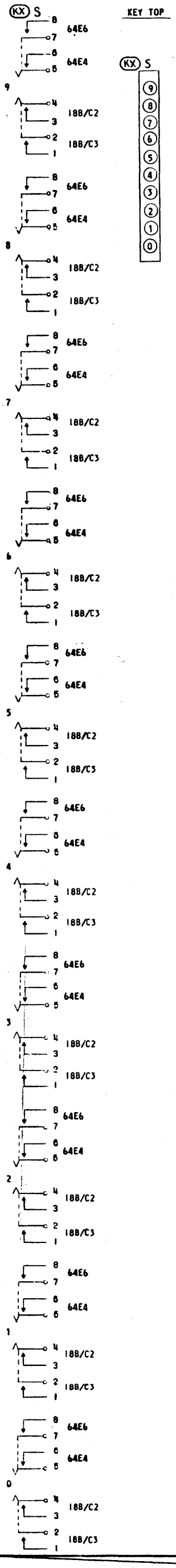
6S

SD-25800-01-C32

PART OF APP FIG. 16

KEY
E1CL

KEY TOP



LAMP

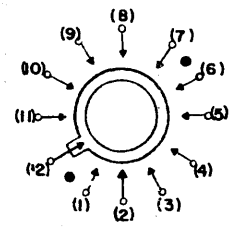
	DESIG	LOC	CODE
(B,ZR)	LF *	64F8	2Y MI
(B,ZR)	M	64F9	2Y MI
(B,ZR)	NTT	64F8	2Y MI
(B,ZR)	MPT	64F8	2Y MI

RESISTOR

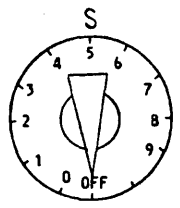
	DESIG	LOC	CODE
(B,ZR)	LF	64G3	18R
	MA	64F4	19GH
(B,ZR)	MB	64H8	KS-5643, L319 OR L325, 120W
(B,ZR)	MC	64H6	18EP
(B,ZR)	MD	64H6	18EP
(B,ZR)	ME	64H6	18EP
(B,ZR)	MF	64H5	18EP
(B,ZR)	MG	64H6	18EP
	PBX	18B/A9	19DY

SWITCH
S

SECT 1-4



SWITCH TOP



SWITCH

DESIG	S
CODE	KS-14618
LIST	41
OPTION	JF
SECT.NO.	
1	64E5
2	64E8
3	18B/C1
4	18B/C3

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-C33

ISSUE 102B

DRAWING ISSUE
SID DS
530 TJD
550 LET

PART OF APP FIG. 17

RELAY

DESIG	AMA			CK1			CNR			KOR			KOR1			OSC			ROT		
CODE	U90			U426			U1238			U81			U57			U1334			U58		
OPTION	N						K						N			N			WN		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
										12,11	M	53A/E4									
										10,9	M	57B/B2	10,9	M	54B/D8				11,10	M	57A/A7
										8,7	M	53A/C7	8,7	M	33A/E0				9,8	M	53A/D7
TOP										6,5	M	32D3	6,5	M	32C7				7,6	M	5A/D3
	7,6	M	53A/B4	7,6	M	57B/B2				4,3	M	29G8	4,3	M	32B5	4,3	M	53A/A4	5,4	M	8D/G2
	5,4	M	53A/B4	5,4,3	BM	56B/D1	4,3	M	32D3	2,1	M	29D7	2,1	M	a	2,1	M	53A/E4	3,2,1	BM	-
	3,2,1	BM	-	2,1	B	53B/B0	2,1	B	-	2,1	M	53B/E2	2,1	M	29G7	2,1	M	53A/E5	2,1	B	-
	2,1	M	6B/C2	3,2,1	BM	a	2,1	M	32E3	4,3	M	54B/E7	4,3	M	29C7	4,3	M	53A/B7	5,4,3	BM	-
	4,3	M	-	5,4	M	53B/B2				6,5	M	32B7	6,5	M	-				8,7,6	BM	57B/D2
BOT.	6,5	M	-							8,7	M	a	8,7	M	33B/A5				10,9	M	53B/F4
										10,9	M	34E7	10,9	M	-						
										12,11	M	33A/E0									
COIL			53A/B4			53B/B1			32D3			31D3			12A8			53A/B7			57A/A8

a	ZZW	53B/C1	
	ZZV	57B/E0	
d	ZOF	32A5	
	ZOH	32B5	
a	NT	34A/D7	
	NQ	34B/B6	

RELAY

DESIG	TMK			CK2			CK2														
CODE	U559			280BM			239KC														
OPTION	M			ZT			ZS														
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
	7,6	M	56B/A5																		
	5,4	M	-																		
	2,1,3	MB	55C3	4,7,3	BM	53B/C1	4,7,3	BM	53B/C1												
	2,1,3	MB	56B/D1																		
BOT.	5,4	M	53B/E2																		
COIL			55C3			53B/C0			53B/C0												

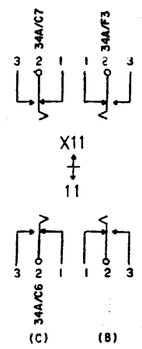
ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C34

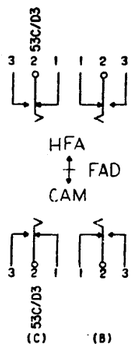
BELL TELEPHONE LABORATORIES INCORPORATED SHEET 6S

PART OF APP FIG. 17

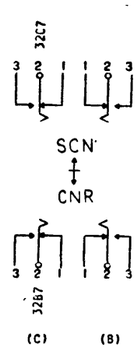
NP — KEY C1G (D) OR KEY UNIT 2C (A)



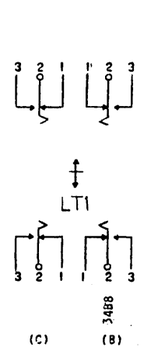
US — KEY C1G (D) OR KEY UNIT 2C (A)



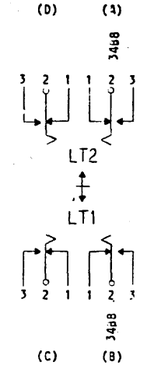
K — KEY C1G (D) OR KEY UNIT 2C (A)



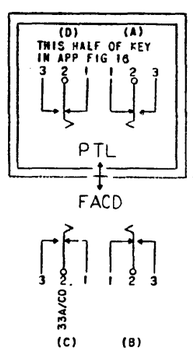
SX — KEY C1G (D) OR KEY UNIT 2C (A)



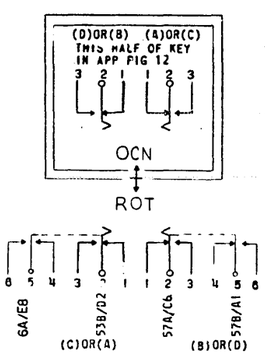
PH — KEY C1G (D) OR KEY UNIT 2C (A)



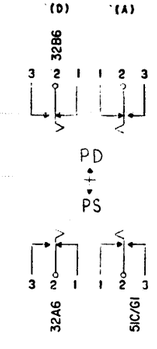
WX — KEY C1G OR KEY UNIT 2C



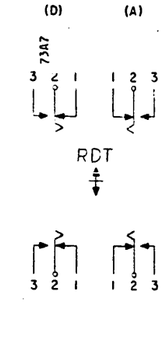
PD — KEY C1N OR KEY UNIT 2BD



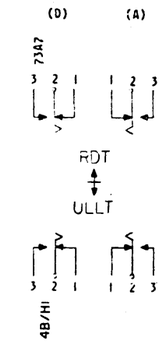
ZWX — KEY C1G OR KEY UNIT 2C (D) (A)



ZYS — KEY C1G OR KEY UNIT 2C (D) (A)



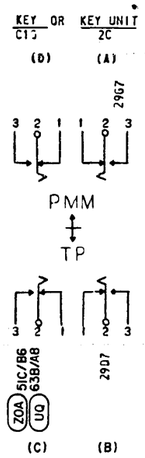
ZSJ — KEY C1G OR KEY UNIT 2C (D) (A)



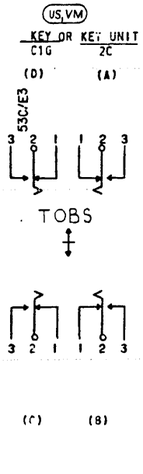
DRAWING ISSUE

51D	NP
57A	
59A	
63D	
66A	
67D	PC
71D	RP
74A	
75B	
76D	
77A	
78D	

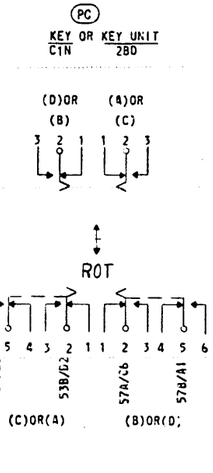
PC — KEY C1N OR KEY UNIT 2BD



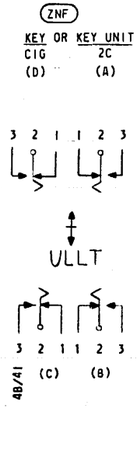
US,VM — KEY C1G OR KEY UNIT 2C (D) (A)



PC — KEY C1N OR KEY UNIT 2BD (D)OR(B) (A)OR(C)



ZNF — KEY C1G OR KEY UNIT 2C (D) (A)



	PC	PD	NP	US	K	WX	SX	PH	ZWX		US,VM	ZYS	ZSJ	ZNF
	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP	KEY TOP
	ROT OR ROT	ROT OR ROT	11	CAM	CNR	FACD	LT1	LT1	PS	TP			ULLT	ULLT
	O1N	OCN OCN	X11	HFA	SCN	PTL		LT2	PD	PMM	TOBS	RDT	RDT	
	C1N	C1N	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C	C1G OR 2C

(OCN) HALF OF KEY IN APP FIG.12

(PTL) HALF OF KEY IN APP FIG. 16

LAMP DESIG	LOC	CODE
CK	53B/A2	~~2T~~ MI
K CNR	32E2	~~2T~~ MI

RESISTOR DESIG	LOC	CODE
L	53B/A0	18AD
M	53B/A1	19AJ

ISSUE 48E

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C35

BELL TELEPHONE LABORATORIES INCORPORATED 6S

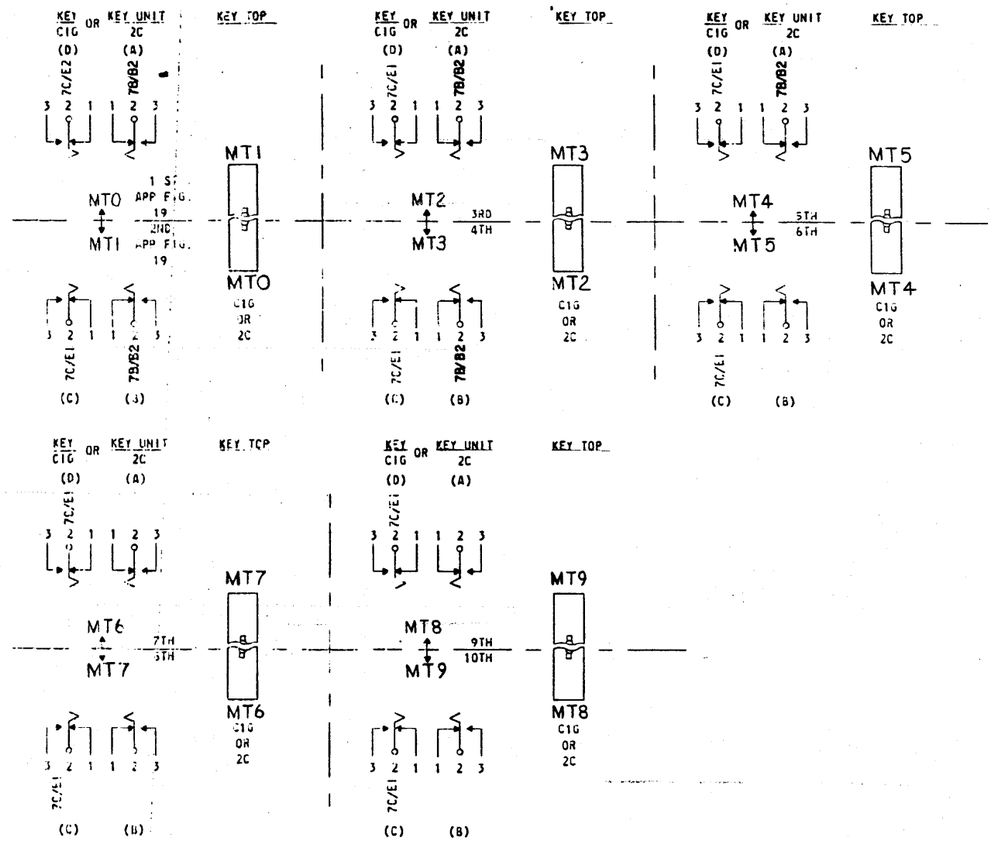
SD-25800-01-C35

APP FIG. 18 (MFR DISC)

RELAY	(1ST APP FIG. 18)	2ND	3RD	4TH	5TH		
DESIG	OSG0	OSG1	OSG2	OSG3	OSG4		
CODE	U421	U421	U421	U421	U421		
OPTION							

	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
	4,3	M	46A5	4,3	M	46A5	4,3	M	46A5	4,3	M	46A5	4,3	M	46A5						
	2,1	B	46F8	2,1	B	46F8	2,1	B	46F8	2,1	B	46F8	2,1	B	46F8						
BOT.	2,1	B	46C8	2,1	B	46C8	2,1	B	46C8	2,1	B	46C8	2,1	B	46C8						
	4,3	M		4,3	M		4,3	M		4,3	M		4,3	M							
COIL		X	46C3		X	46C3		X	46C3		X	46C3		X	46C3		X			X	

APP FIG. 19 (MFR DISC)



78

MASTER TEST CONTROL CIRCUIT	②	SD-25800-01-C36
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

SD-25800-01-C36

STABILO

PART OF APP FIG 20

RELAY																							
DESIG	A10T			HK			HN			KR2			KTV			LV7			LV8				
CODE	U1149			U580			U65			U254			U65			U1288			U1301				
OPTION	DZ																						
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
							12,11	M					12,11	M	68D7									
							10,9	M	18C/D3				10,9	M	68D7	11,10	M							
TOP	8,7	M	19F3				8,7	M	18C/D3				8,7	M	68D7	9,8,7	BM	57A/E3						
	6,5	M	19G3				6,5	M	18C/D3				6,5	M	548/E7	6,5	M	19A3	6,5	M	18C/D7			
	4,3	M	67D7				4,3	M	18C/D3	5,4	M		4,3	M	2908	4,3	M	18C/D8	4,3	M	18C/E7			
	2,1	M	19F7	3,2,1	BM	5987	2,1	M	18C/D3	3,2,1	BM		2,1	M	29F8	2,1	M	18C/C8	2,1	M	18C/F7			
	2,1	B	19G4	3,2,1	BM		2,1	M	18C/D3	3,2,1	BM	1B/C3	2,1	M	548/C7	2,1,3	MB		2,1	M	18C/B7			
	5,4,3	BM					4,3	M	18C/D3	5,4	M		4,3	M	548/C8	5,4	M	59C7	4,3	M	1989			
BOT.	7,6	M					6,5	M	18C/D3				6,5	M	68D8	7,6	M	60B/F6	6,5	M				
							8,7	M	18C/D3				8,7	M	68D8	9,8	M	18C/E8						
							10,9	M	18C/D3				10,9	M	68D9	11,10	M	5986						
							12,11	M					12,11	M	68D7									
COIL			68B/E6			18C/D7			18C/E9			1B/H1			68B/F6			59C7			18C/E9		

RELAY																							
DESIG	OFF			OFK			STK			T			TH			THK			TK				
CODE	U65			U580			U286			U65			U65			U580			U530				
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC			
	12,11	M	19C2							12,11	M		12,11	M										
	10,9	M	19C2							10,9	M	18C/E3	10,9	M	18C/A3									
TOP	8,7	M	19C2							8,7	M	18C/E3	8,7	M	18C/A3									
	6,5	M	19C2							6,5	M	18C/E3	6,5	M	18C/A3									
	4,3	M	19C2				5,4	M		4,3	M	18C/E3	4,3	M	18C/A3									
	2,1	M	19C2	3,2,1	BM	5987	3,2,1	BM	67D2	2,1	M	18C/E3	2,1	M	18C/A3	3,2,1	BM	5987	3,2,1	BM	5987			
	2,1	M	19D2	3,2,1	BM		2,1	M	1B/D3	2,1	M	18C/E3	2,1	K	18C/A3	3,2,1	BM		3,2,1	BM				
	4,3	M	19D2				4,3	M	1B/D2	4,3	M	18C/E3	4,3	M	18C/A3									
BOT.	6,5	M	19D2							6,5	M	18C/E3	6,5	M	18C/A3									
	8,7	M	19D2							8,7	M	18C/E3	8,7	M	18C/A3									
	10,9	M								10,9	M	18C/E3	10,9	M	18C/A3									
	12,11	M								12,11	M		12,11	M										
COIL			19A3			1989			1B/C2			18C/C9			18C/D9			18C/B7			18C/E7		

RELAY																							
DESIG	TLVF			TLVM			U			UK			TCB										
CODE	U286			U286			U65			U580			U580										
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC
							12,11	M																
							10,9	M	18C/G3															
TOP							8,7	M	18C/G3															
							6,5	M	18C/G3															
	5,4	M	59A7	5,4	M	59A8	4,3	M	18C/G3															
	3,2,1	BM	57B/G5	3,2,1	BM	59G9	2,1	M	18C/G3	3,2,1	BM	5988	3,2,1	BM	1B/D4									
	2,1	M	60B/G7	2,1	M	60B/F7	2,1	M	18C/G3	3,2,1	BM		3,2,1	BM	67E3									
	4,3	M	59G8	4,3	M	57A/E3	4,3	M	18C/G3															
BOT							6,5	M	18C/G3															
							8,7	M	18C/G3															
							10,9	M	18C/G3															
							12,11	M																
COIL			59A7			59A8			18C/D9			18C/F7			67D1									

RELAY																							
DESIG																							
CODE																							
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP																								
BOT.																								
COIL																								

DRAWING ISSUE

67D	CB
68A	CB
71D	RJ
75B	
78D	
80D	CB

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C37

BELL TELEPHONE LABORATORIES INCORPORATED FORM 6S

SD-25800-01-C37

PART OF APP FIG 20

KEY OR KEY UNIT
CIN 28D
(D) OR (B) (A) OR (C)
6703
RMB
SDT3
IB/D4 IB/F4 67E2 67G0 IB/H0
(C) OR (A) (B) OR (D)

KEY TOP
28D
OR
SDT3
RMB
CIN

KEY OR KEY UNIT
CIG 2C
(D) (A)
IB/D4 67F0
SDTI
SDT2
68K/D3 67F0
(C) (B)

KEY TOP
SDT2
SDTI
CIG OR 2C

(DZ)
KEY OR KEY UNIT
CIG 2C
(D) (A)
66B/E5 19F7
TLLT
TSLT
68B/E5
(C) (B)

(DZ)
KEY TOP
TSLT
TLLT
CIG OR 2C

KEY OR KEY UNIT
CIE 28L
(D) (A)
6A/E4 59E7 1A/A7 5A/E1
TLV
TVTI
59B/B5 59F7 IB/H0
(C) (B)

KEY TOP
TVTI
TLV
CIE OR 28L

(WF)
KEY OR KEY UNIT
CIG 2C
(D) (A)
5A/E1
TRO
(C) (B)

(WF)
KEY TOP
TRO
CIG OR 2C

(DY)
KEY OR KEY UNIT
CIG 2C
(D) (A)
5A/E1
TRO
CTMB
6707
(C) (B)

(DY)
KEY TOP
CTMB TRO
CIG OR 2C

(WE)
KEY OR KEY UNIT
CIG 2C
(D) (A)
5A/E2
TRO
TRNO
5A/E4
(C) (B)

(WE)
KEY TOP
TRNO TRO
CIG OR 2C

(ZNY,ZOF,ZQW)
KEY OR KEY UNIT
CIG 2C
(D) (A)
48/E7
(ZNY) LAMC, (ZOF) TCPO
(ZNY,ZOF,ZQW) KAMA
8B/E6 53A/06
(C) (B)

(ZNY,ZOF,ZQW)
KEY TOP
KAMA (ZNY,ZOF,ZQW)
LAMC (ZNY)
TCPO (ZOF)
CIG OR 2C

LAMP

DESIG	LOC	CODE
TLVF	59G8	2# MI
TLVM	59G9	2# MI

DRAWING ISSUE
67D
74A
78D
80D
83A

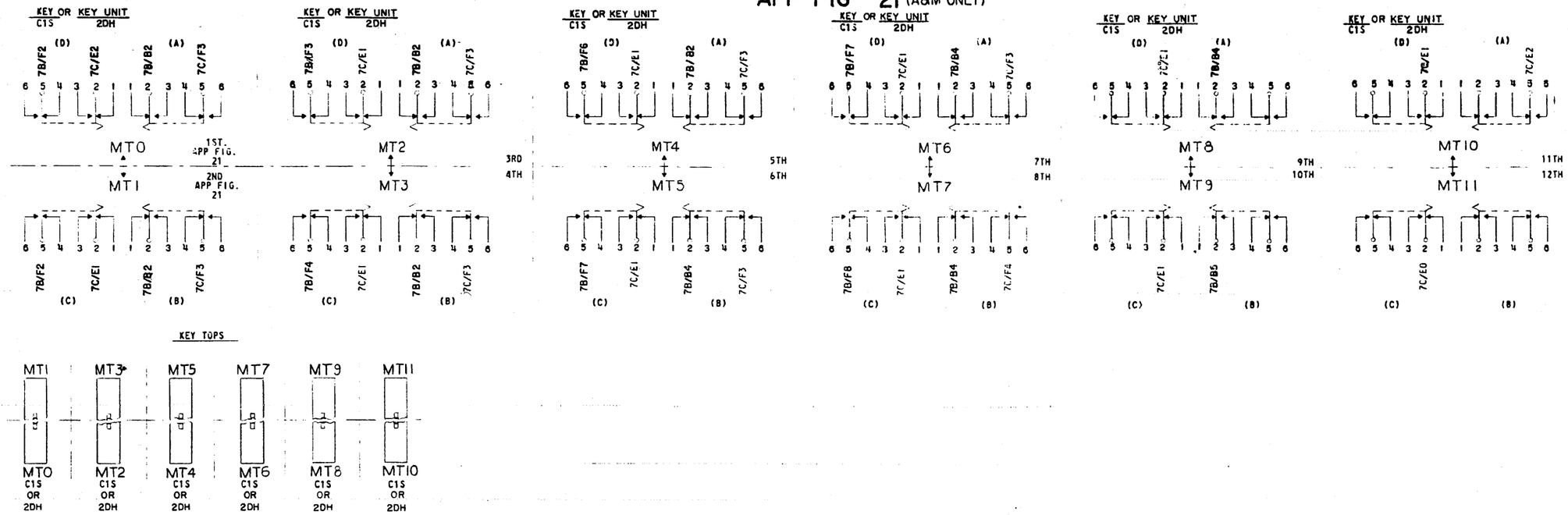
ISSUE 98B

MASTER TEST CONTROL C (2) SD-25800-01-C38

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C38

APP FIG 21 (A&M ONLY)



KEY TOPS

DRAWING ISSUE
510 GAV μG AAV
670 KMT
760
780
800

80

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C39
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C39

APP FIG. 22

RELAY

DESIG	IMS			IMS1																	
CODE	U65			U1317																	
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	28/C6																		
	10,9	M	53A/D5																		
	8,7	M	12F7	9,8	M	48B/D5															
	6,5	M	47C8	7,6	M	6B/E5															
	4,3	M	40B/E0	5,4	M	65A/A2															
	2,1	M	4A/F3	3,2,1	BM	50B/D8															
BOT.	2,1	M	26A/F5	2,1	B	1A/B4															
	4,3	M	20A/G2	5,4,3	BM	57B/F1															
	6,5	M	31D1	7,6	M	53B/D3															
	8,7	M	4B/G1																		
	10,9	M	53A/D4																		
	12,11	M	6B/C1																		
COIL			28/C6			28/A6															

LAMP

	DESIG	LOC	CODE
(ZVT)	IMS	4A/F4	~~27~~ M1

RESISTOR

	DESIG	LOC	CODE
(XZ)	IMS	48B/D5	188H

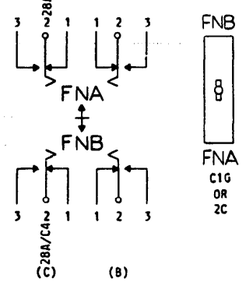
APP FIG. 23

RELAY

DESIG	FNK																				
CODE	U422																				
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
	3,2,1	BM	60A/C2																		
BOT.	2,1	M	-																		
COIL			28A/A4																		

KEY OR KEY UNIT C1G (D) 2C (A)

KEY TOP



APP FIG. 24

RELAY

DESIG	MTT																				
CODE	U69																				
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	10,9	M	18/F9																		
	8,7,6	BM	6A/G6																		
	5,4	M	3A/A1																		
	2,1,3	MB	62C0																		
BOT.	2,1	M	61B8																		
	4,3	M	48B/A5																		
	6,5	M	61D6																		
	8,7	B	2A/H2																		
	10,9	M	8B/C0																		
COIL			61F9																		

LAMP

DESIG	LOC	CODE	
MTT	61B9	~~27~~ M1	(M1)

RESISTOR

DESIG	LOC	CODE
MTT	62E0	T07A, KS-20810, L1A, 47 ± 1%

RELAY

DESIG																					
CODE																					
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
BOT.																					
COIL																					

DRAWING ISSUE

51D	SA, AM, AN
58D	JU, AM, AN
61A	AS, AU, AV
630	AV, AW, AX
64A	AW, AX, AY
670	AZ
690	EM
710	RJF
730	
74A	
758	
760	

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C40

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C40

STABILO

E-70822-8 (10-61)

APP FIG. 25

RELAY

DESIG	TS1			TS2			TS3			TS4			TS5			TS6			TS7		
CODE	U144			U144			U144			U144			U144			U144			U144		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	8C/D1	12,11	M	57A/G8	12,11	M	27A6	12,11	M		12,11	M	42A/E2	12,11	M	8A/D2	12,11	M	41A/E1
	10,9	M	8C/E1	10,9	M	57A/E8	10,9	M	288/E9	10,9	M	47F7	10,9	M	42A/E1	10,9	M	45E5	10,9	M	45B5
	8,7	M	8C/E1	8,7	M	57A/C8	8,7	M	55C2	8,7	M	47F2	8,7	M	4HC/D2	8,7	M	45E5	8,7	M	45B5
	6,5	M	8C/F1	6,5	M	56A/G6	6,5	M	52A/D1	6,5	M	47F2	6,5	M	41A/E0	6,5	M	45E5	6,5	M	45B5
	4,3	M	8C/F1	4,3	M	56B/F1	4,3	M	52B/F7	4,3	M	47F1	4,3	M	42B/C2	4,3	M	45E5	4,3	M	45B5
	2,1	M	8C/G1	2,1	M	56B/F0	2,1	M	548/C0	2,1	M	47F0	2,1	M	c	2,1	M	45E5	2,1	M	45B5
BOT.	2,1	M	8C/C1	2,1	M	8C/B4	2,1	M	108/B0	2,1	M	47C4	2,1	M	8D/E5	2,1	M	45E5	2,1	M	45B5
	4,3	M	8C/B1	4,3	M	8C/C4	4,3	M	10A/F3	4,3	M	10A/F8	4,3	M	8D/E6	4,3	M	45E5	4,3	M	45B5
	6,5	M	8C/G1	6,5	M	5A/C1	6,5	M	8A/E5	6,5	M	8A/D0	6,5	M	52B/B1	6,5	M	45E5	6,5	M	45B5
	8,7	M	28A/E3	8,7	M	8D/D4	8,7	M	108/B0	8,7	M	85B3	8,7	M	10A/F8	8,7	M	45E5	8,7	M	45B5
	10,9	M	8C/H1	10,9	M	8D/C1	10,9	M	10A/E4	10,9	M	8A/D7	10,9	M	10A/F6	10,9	M	45E5	10,9	M	45B5
	12,11	M	30/E9	12,11	M	52B/G1	12,11	M	53A/F0	12,11	M	8D/D3	12,11	M	10A/E5	12,11	M	8A/D3	12,11	M	8A/D3
COIL			8C/B2			8C/B2			8C/C2			8C/D2			8C/E2			8C/E2			8C/F2

a (58) 30F1
(65) 288/E3

RELAY

DESIG	TS8			TS9			TS10			TS11			TS12			TS13					
CODE	U144			U144			U144			U144			U144			U144					
OPTION	UR			TO			VJ			CO			BK			ZXQ					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	8A/D1	12,11	M	-	12,11	M	8A/D1	12,11	M	42A/E9	12,11	M	94E5	12,11	M	-			
	10,9	M	44A/H3	10,9	M	44A/G3	10,9	M	45A5	10,9	M	28A/C7	10,9	M	96G0	10,9	M	10A/E4			
	8,7	M	44A/H3	8,7	M	44A/G3	8,7	M	45F3	8,7	M	10A/F3	8,7	M	42A/E7	8,7	M	10A/F9			
	6,5	M	44A/H3	6,5	M	44A/G3	6,5	M	45F6	6,5	M	8B/C1	6,5	M	73A6	6,5	M	48C/B7			
	4,3	M	44A/H3	4,3	M	44A/G3	4,3	M	45F3	4,3	M	9CD7	4,3	M	3CD1	4,3	M	10C/F6			
	2,1	M	44A/H3	2,1	M	44A/G3	2,1	M	45F6	2,1	M	9CH2	2,1	M	42A/E7	2,1	M	a			
BOT.	2,1	M	44A/H3	2,1	M	44A/G3	2,1	M	27E6	2,1	M	89H5	2,1	M	53A/F2	2,1	M	41B/C5			
	4,3	M	44A/H3	4,3	M	44A/G3	4,3	M	27F6	4,3	M	89E5	4,3	M	76G6	4,3	M	97A2			
	6,5	M	44A/H3	6,5	M	44A/G3	6,5	M	27G6	6,5	M	89C5	6,5	M	89B1	6,5	M	97H3			
	8,7	M	44A/H3	8,7	M	44A/G3	8,7	M	27G6	8,7	M	89D5	8,7	M	94C7	8,7	M	97H3			
	10,9	M	44A/H3	10,9	M	44A/G3	10,9	M	52A/B1	10,9	M	89B1	10,9	M	94B7	10,9	M	97B7			
	12,11	M	8A/D7	12,11	M	-	12,11	M	30F2	12,11	M	89A1	12,11	M	94E6	12,11	M	54A/D6			
COIL			8C/F2			3C/G2			8C/G2			8C/H2			3C/C2			3C/D2			

a (ZXQ) 94C1
(ZMD) 40A/G8

APP FIG. 26

RELAY

DESIG	ATT																				
CODE	U69																				
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	10,9	M	1B/F9																		
	8,7,6	BM	a																		
	5,4	M	3A/A2																		
	2,1,3	MB	61A7																		
BOT.	2,1	M	61A9																		
	4,3	M	58A3																		
	6,5	M	-																		
	8,7	B	-																		
	10,9	M	6B/B7																		
COIL			61A8																		

a 2A/H3
57A/F6

LAMP

DESIG	LOC	CODE
ATT	61A9	24 H1

APP FIG. 27 (MFR DISC)

RELAY

DESIG	EPR			MTCP			PR			REP											
CODE	U168			U601			U90			U1018											
OPTION										ZNN											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				9,8	M	5A/C6															
				7,6	M	5B/C5	7,6	M	5B/C5	6,5	M	6B/B8									
	5,4	M	-	5,4	M	69A/C0	5,4	M	6B/C8	4,3	B	-									
	3,2,1	BM	7A/G1	3,2,1	BM	a	3,2,1	BM	-	2,1	B	-									
	2,1,3	MB	5B/B5	2,1	B	6A/B9	2,1	M	5B/D5	2,1	B	6B/D9									
BOT.				5,4,3	BM	19H3	4,3	M	5A/B0	4,3	B	5B/C7									
				7,6	M	5B/C6	6,5	M	10280	6,5	M	1B/B6									
COIL			5B/A6			5B/B6			5B/C6			6B/A9									

a 5C/H9
69A/C0

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
SD-25800-01-C41
6S

SD-25800-01-C41

STABILO

APP FIG. 28 (MFR DISC)

RELAY

DESIG	ATTP											
CODE	U168											
OPTION												
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	5,4	M	–									
	3,2,1	BM	5C/G6									
BOT.	2,1,3	MB	5C/B9									
COIL			5C/D6									

NETWORK

DESIG	LOC	CODE
ATTP		1/2 177C OR 1/2 131C

APP FIG. 29

RELAY

DESIG	TVK			TVK1														
CODE	U141			U679														
OPTION																		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				5,4	M													
	3,2,1	BM	a	3,2,1	BM	98H2												
BOT.	3,2,1	BM	69A/B2	3,2,1	BM	69A/G1												
				5,4	M	3A/C6												
COIL			69B/B4			69A/B0												
		a	5A/C5 69A/B0															

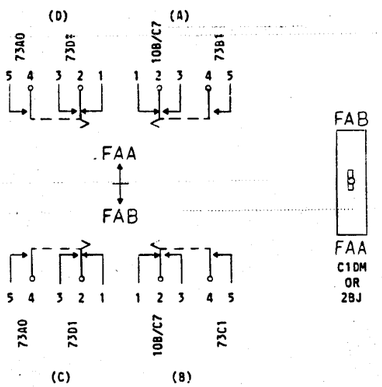
APP FIG. 30

RELAY

DESIG	FAA			FAB														
CODE	U1301			U1301														
OPTION	ML			ML														
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	6,5	M	73G1	6,5	M	73H1												
	4,3	M	73F1	4,3	M	73F1												
	2,1	M	73B0	2,1	M	73B0												
BOT.	2,1	M	–	2,1	M	–												
	4,3	M	–	4,3	M	–												
	6,5	M	–	6,5	M	–												
COIL			73A2			73A2												

KEY OR KEY UNIT: C1DM 2BJ

KEY TOP

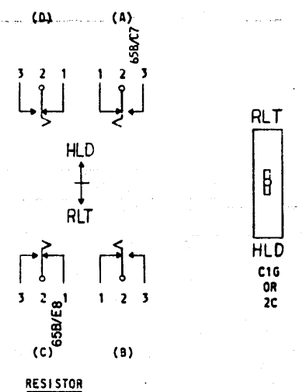


INDUCTOR

DESIG	LOC	CODE
SRG	48A/F4	274B

KEY OR KEY UNIT: C1G 2C

KEY TOP



LAMP

DESIG	LOC	CODE
RON	65A/B4	24 MI

RESISTOR

DESIG	LOC	CODE
(UF) SRG	48A/F5	188M

APP FIG. 31

RELAY

DESIG	ORT			SRG1			SRG2											
CODE	U144			U1375			Y311											
OPTION																		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	65B/C4															
	10,9	M	65B/B4															
	8,7	M	65A/A3															
	6,5	M	3A0															
	4,3	M	65B/E4	5,4	M	–	4,3	M	–									
	2,1	M	65A/D3	3,2,1	BM	65A/B4	2,1	M	–									
BOT.	2,1	M	50B/F8	3,2,1	BM	48A/E6	2,1	B	–									
	4,3	M	65B/C7	5,4	M	–	4,3	M	48A/F6									
	6,5	M	65A/B4															
	8,7	M	95A/C2															
	10,9	M	95A/C4															
	12,11	M	6A/G7															
COIL			65B/B4			48A/F5			65A/B4									

DRAWING ISSUE

51D	PLC, AM
53D	PLC, AM, LL, PH
54B	PLC, AM, LL, PH
56D	PLC, AM, LL, PH
67D	PLC
71D	PLC
73D	
74A	
78D	
80C	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C42

STABILO

E-7422-B-3(12-61)

APP FIG. 32

RELAY									
DESIG	NGT								
CODE	U65								
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	63B/A3						
	10,9	M	—						
	8,7	M	63B/C3						
	6,5	M	63B/C3						
	4,3	M	63B/C3						
	2,1	M	63B/C3						
BOT.	2,1	M	63B/C3						
	4,3	M	63B/C3						
	6,5	M	63B/C3						
	8,7	M	63B/C3						
	10,9	M	—						
	12,11	M	63B/C2						
COIL			63B/B3						

KEY NGA — 490C OR 490A — 63B/C2

SEE NOTE 1

KEY NGB — 490C OR 490A — 63B/C2

KEY NGC — 490C OR 490A — 63B/C2

KEY NGD — 490C OR 490A — 63B/C2

KEY NGE — 490C OR 490A — 63B/C2

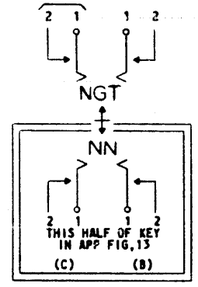
KEY NGF — 490C OR 490A — 63B/C2

KEY NGG — 490C OR 490A — 63B/C2

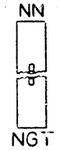
KEY NGH — 490C OR 490A — 63B/C2

(PF) KEY OR KEY UNIT

C1DK (D) — 2BF (A) — 63B/B1



(PF) KEY TOP



C1DK OR 2BF

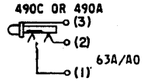
(NN) HALF OF KEY IN APP FIG.13

RESISTOR

DESIG	LOC	CODE
NGT	63B/C1	18AG

APP FIG. 33 (MFR DISC)

KEY LP0 — 490C OR 490A



63A/A0

SEE NOTE 1

KEY LP1 — 490C OR 490A — 63A/B0

KEY LP2 — 490C OR 490A — 63A/B0

KEY LP3 — 490C OR 490A — 63A/B0

KEY LP4 — 490C OR 490A — 63A/B0

KEY LP5 — 490C OR 490A — 63A/B0

KEY LP6 — 490C OR 490A — 63A/B0

KEY LP7 — 490C OR 490A — 63A/B0

KEY LP8 — 490C OR 490A — 63A/B0

KEY LP9 — 490C OR 490A — 63A/B0

KEY LP10 — 490C OR 490A — 63A/B0

KEY LP11 — 490C OR 490A — 63A/C0

APP FIG. 34

RELAY																				
DESIG	LP																			
CODE	U199																			
OPTION																				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																				
	6,5,4	BM	63A/C6																	
	3,2,1	BM	63A/B6																	
BOT.	3,2,1	BM	508/H3										M							
	6,5,4	BM	—																	
COIL			63A/A6																	

CAPACITOR

DESIG	LOC	CODE
LLF	63A/C5	437A [1] 437C [1] 437A [1]
NGF	63A/B5	437C [1]

RESISTOR

DESIG	LOC	CODE
LLF	63A/C5	19WD
NGF	63A/B5	19WD

NOTES:
1. THE (NGA-H) OR (LP0-11) KEYS ARE SHOWN IN THE NORMAL (PUSHED IN) POSITION.

DRAWING ISSUE

51D	SAM AMC
55D	CK AJC AMC
76D	

ISSUE 95A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C43

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

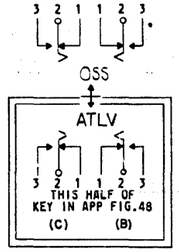
E-7488-B (10-64)

APP FIG. 35

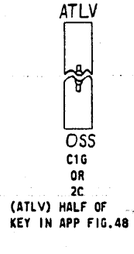
RELAY		ASB			KOS			OSK			SSA			SSAA			SSB			SSBA		
DESIG		Y115			U55			U1018			U88			U662			U88			U662		
CODE														TH						TH		
OPTION																						
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP										12,11	B	47B5				12,11	B	47A5			
										10,9	B	46C7				10,9	B	46F7			
				9,8	M	47A7				8,7	B	46C7				8,7	B	46F7			
				7,6	M	47D5	6,5	M	-	6,5	B	46C7	6,5	M	-	6,5	B	46F7	6,5	M	-
				5,4	M	8A/E0	4,3	B	47D8	4,3	B	46C7	4,3	B	46E7	4,3	B	46F7	4,3	B	46H7
	2,1	B	47D4	3,2,1	BM	-	2,1	B	47D7	2,1	B	46C7	2,1	B	46E7	2,1	B	46F7	2,1	B	46H7
BOT.	2,1	M	-	3,2,1	BM	-	2,1	B	47D7	2,1	B	46C7	2,1	B	-	2,1	B	46F7	2,1	B	-
				5,4	M	47B5	4,3	B	47D8	4,3	B	46C7	4,3	B	-	4,3	B	46F7	4,3	B	-
				7,6	M	-	6,5	M	53A/A7	6,3	B	46C7				6,5	B	46F7			
										8,7	B	46C7				8,7	B	46F7			
										10,9	B	46C7				10,9	B	46F7			
										12,11	M	-				12,11	M	-			
COIL			47A5			47A7			47D8			47D7			47C7			47D8			47C8

RELAY										
DESIG										
CODE										
OPTION										
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	
TOP										
BOT.										
COIL										

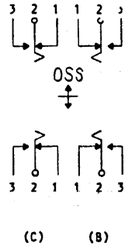
KEY C1G (D) (PK) OR KEY UNIT 2C (A)



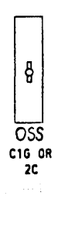
(PK) KEY TOP



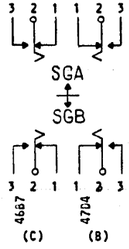
KEY C1G (D) (PI) OR KEY UNIT 2C (A)



(PI) KEY TOP



KEY C1G (D) OR KEY UNIT 2C (A)



KEY TOP

NETWORK

	DESIG	LOC	CODE
(TH)	SSAA	47C7	1/2 177H
(TH)	SSBA	47C8	1/2 177H

APP FIG. 36

RELAY (1ST APP FIG.36)				2ND			3RD			4TH			5TH			6TH			7TH		
DESIG	OSG0			OSG1			OSG2			OSG3			OSG4			OSG5			OSG6		
CODE	U1387			U1387			U1387			U1387			U1387			U1387			U1387		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																					
	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a
	2,1	B	46D8	2,1	B	46D8	2,1	B	46D8	2,1	B	46D8	2,1	B	46D8	2,1	B	46E8	2,1	B	46E8
	2,1	B	-	2,1	B	-	2,1	B	-	2,1	B	-	2,1	B	-	2,1	B	-	2,1	B	-
BOT.	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-
COIL			46C3			46C3			46C3			46C3			46C3			46C3			46C3
		a	46B5		a	46A5		a	46A5		a	46A5		a	46A5		a	46A5		a	46A5
		a	46G8		a	46G8		a	46G8		a	46G8		a	46G8		a	46G3		a	46G8

RELAY		8TH			9TH			10TH			11TH			12TH								
DESIG		OSG7			OSG6			OSG9			OSG10			OSG11								
CODE		U1387			U1387			U1387			U1387			U1387								
OPTION											TH			TH								
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																								
	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a	5,4,3	BM	a									
	2,1	B	46E8	2,1	B	46E8	2,1	B	46E8	2,1	B	46E8	2,1	B	46E8									
	2,1	B	-	2,1	B	-	2,1	B	-	2,1	B	-	2,1	B	-									
BOT.	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-	5,4,3	BM	-									
COIL			46C3			46C3			46C3			46C3			46C3									
		a	46A5		a	46A5		a	46A5		a	46B5		a	46B5									
		a	46G8		a	46G8		a	46G8		a	46H8		a	46H8									

DRAWING ISSUE

5ID	DS
67D	SL-1
71D	ESS

CB

ISSUE 99A

MASTER TEST CONTROL CIRCUIT	SD-25800-01-C44
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S

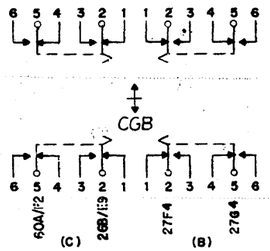
STABILOTYPE

E-74228-B (12-61)

APP FIG. 37 (A&M ONLY)

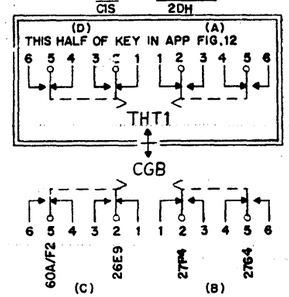
RELAY DESIG	CGA			CGB			KCS4			VER8												
CODE	U1309			U1309			U1113			U1326												
OPTION																						
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	
TOP										11,10	M	27G5										
	8,7	M	27F3	8,7	M	27H3	10,9	M	26B/D8	9,8,7	BM	27E4										
	6,5	M	27F3	6,5	M	27H3	8,7	M	26B/D8	6,5	M	27G3										
	4,3	M	60A/F1	4,3	M	60A/F1	6,5,4	BM	27E6	4,3	M	27F3										
	2,1	B	60A/F1	2,1	B	60A/F1	3,2,1	BM	27H6	2,1	M	26A/G3										
BOT.	2,1	B	60A/E1	2,1	B	60A/E2	3,2,1	BM	—	2,1,3	MB	—										
	4,3	M	60A/E2	4,3	M	60A/E2	6,5,4	BM	—	5,4	M	27F5										
	6,5	M	27F5	6,5	M	27G5	8,7	M	—	8,7,6	BM	27H4										
	8,7	M	26B/D8	8,7	M	26B/D9	10,9	M	—	10,9	M	—										
COIL			27E3			27G3			26A/F3			26A/G3										

(GC) KEY OR KEY UNIT CIS 2DH



(GC) KEY TOP

(GD) KEY OR KEY UNIT CIS 2DH



(GD) KEY TOP

RESISTOR

DESIG	LOC	CODE
CGA	27F3	KS-19151,L1,5600
(GG) CGAB	27F4	147D,1500
CGB	27G3	KS-19151,L1,5600

APP FIG. 38

RELAY DESIG	LHMT			LLJ			MKT3			TLH												
CODE	280Y			280Y			U495			280Y												
OPTION																						
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	
TOP							12,11	M	52A/D2													
							10,9	M	52A/C2													
							8,7	M	52A/C1													
							6,5	M	52A/F1													
							4,3	M	52A/E1													
	4,7,3	BM	52A/G2	4,7,3	BM	52A/E2	2,1	M	52A/E2	4,7,3	BM	52A/D2										
BOT.							2,1	M	52A/E2													
							4,3	M	52A/G2													
							6,5	M	52A/F2													
							8,7	M	30D4													
							10,9	M	32C3													
							12,11	M	—													
COIL			52A/F1			52A/E1			48/D2			52A/C1										

LAMP

DESIG	LOC	CODE
LHMT	52A/F4	24 MI
LLJ	52A/E4	24 MI
TLH	52A/D4	24 MI

RESISTOR

DESIG	LOC	CODE
LHMT	52A/F2	KS-19150,L1,0.1MEG
LLJ	52A/E2	KS-19150,L1,0.1MEG
TLH	52A/C2	KS-19150,L1,0.1MEG

APP FIG. 39 (A&M ONLY)

RELAY DESIG	ATTP			LVP			TTRP			AREP												
CODE	U582			U582			U582			U109												
OPTION							MG			ZXL												
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	
TOP										10,9,8	BM	5C/B1										
	9,8,7	BM	—	9,8,7	BM	5C/H5	9,8,7	BM	5C/H1	7,6,5	BM											
	6,5,4	BM	5C/H6	6,5,4	BM	5C/B7	6,5,4	BM	5C/A8	4,3	B	5C/A8										
	2,1,3	MB	5C/B7	2,1,3	MB	5C/B5	2,1,3	MB	5C/B3	2,1	B	5C/A6										
BOT.	3,2,1	BM	5B/E4	3,2,1	BM	—	3,2,1	BM	5B/F5	2,1	B	5B/F8										
	6,5,4	BM	—	6,5,4	BM	—	6,5,4	BM	5C/A5	4,3	B	5C/A3										
	8,7	M		8,7	M		8,7	M	5C/G2	7,6,5	BM	5C/H1										
										10,9,8	BM											
COIL			5C/D6			5C/D4			5C/D2			5C/D1										

NETWORK

DESIG	LOC	CODE
ATTP	5C/D6	1/2 177C OR 1/2 181C
LVP	5C/D4	1/2 177C OR 1/2 181C
(MG) TTRP	5C/D2	185A
(ZXL) AREP	5C/D1	185A

LAMP

DESIG	LOC	CODE
(ZXL) ARET	5C/D0	24 MI

DRAWING ISSUE	
51D	
53D	
55A	
56D	
57A	
60D	
63D	
64A	
67D	
70D	
76D	
79A	
80D	

ISSUE 105A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C45

BELL TELEPHONE LABORATORIES INCORPORATED SHEET 6S

SD-25800-01-C45

STABILO

APP FIG. 40

RELAY

DESIG	CAM			CAM6			CAM7			GS			PD			PLST			PO		
CODE	U81			U1396			U588			Y278			U256			U1238			U158		
OPTION													IQ						IQ		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	71D1				12,11	M	68/H5										-		
	10,9	M	71D1	11,10	M		10,9	M	57A/D4												
	8,7	M	71C1	9,8	M	49B/D2	8,7	M	71F7												
	6,5	M	37B/D1	7,6	M	49B/B1	6,5	M	69A/D2	7,6	M	-									
	4,3	M	a	5,4	M	49B/D2	4,3	M	69B/D4	5,4,3	BM	-	5,4,3	BM	49A/B3	4,3	M	71A2			
	2,1	M	61G3	3,2,1	BM	49A/E2	2,1	B	56A/D1	2,1	B	71F1	2,1	B	71F6	2,1	B	71E4	3,2,1	BM	-
BOT.	2,1	M	71A4	3,2,1	BM	49A/F1	2,1	B	5A/C5	3,2,1	BM	-	3,2,1	BM	-	2,1	M	-	2,1	M	IB/C4
	4,3	M	65A/A7	6,5,4	BM	49B/C1	4,3	M	56A/E5	5,4	M	71H1	5,4	M	71B2				4,3	M	71C8
	6,5	M	71B1	8,7	M		6,5	M	71E4	7,6	M	71E2									
	8,7	M	61G1	10,9	M	49B/B2	8,7	M	71D3												
	10,9	M	71C1				10,9	M	71E6												
	12,11	M	71B1				12,11	M	71C1												
COIL			61G2			71G1			71C8			71E2			71B1			71A6			71C8

a (ZKP) 71A6 (ZKM) 48/C6

RELAY

DESIG	POSC			SGA			SGB			T8C			TSK1			TSK2					
CODE	U238			U1238			U1238			U207			U1334			U421					
OPTION				IQ			IQ														
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	9,8	M	71H2																		
	7,6	M	71D2																		
	5,4	M	71H5	4,3	M	71E1	4,3	M	71E1	4,3	M	-	4,3	M	49B/C1	4,3	M	71C1	4,3	M	-
	3,2,1	BM	a	2,1	B	71E4	2,1	B	71E3	2,1	M	71F5	2,1	M	71H2	2,1	B	61H2			
BOT.	3,2,1	BM	71F4	2,1	M	71F1	2,1	M	71F1	2,1	M	49A/C5	2,1	M	48/C6	2,1	B	61H2			
	5,4	M	68/D7							4,3	M	49A/B5	4,3	M	IB/B9	4,3	M	53B/F3			
	7,6	M	71G2							6,5	M	71H7									
COIL			71H1			71D1			71D1			49B/D2			71C1			71C2			

a IB/C4 71C7

RELAY

DESIG							RPLS
CODE							U1131
OPTION							ZMN
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							11,10,9	BM	49A/D1
							8,7,6	BM	49A/B2
							5,4,3	BM	49A/C3
							2,1	M	
BOT							3,2,1	BM	49A/B4
							6,5,4	BM	49A/F5
							9,8,7	BM	49A/G5
COIL									49B/F3

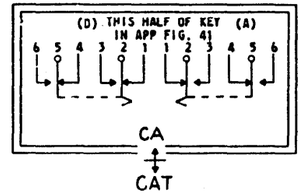
RELAY

DESIG	PO		PD		SGA		SGB			RPLS
CODE	AK10				AK38					AJ83
OPTION	IR				IR					ZMO
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	BM	–			BM	71E1					EBM	
11	M	–			BM	71F1					EBM	
10	M	–			B	71E4					EBM	49A/D1
9	M	IB/C4									EBM	49A/B2
8	M	71C8									EMB	49A/C3
7											EBM	49A/B4
6											EMB	49A/F5
5			M	–							EMB	49A/G5
4			BM	71B2							EBM	
3			BM	–			B	71E3			EBM	
2			BM	49A/B3			BM	71E1			EBM	
1			BM	71F6			BM	71F1			EBM	
COIL	71C8		71B1		71D1		71D1					49B/F3

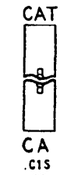
CAPACITOR

DESIG	LOC	CODE
TN	49A/B5	44IC
TN1	49A/C5	44IC

KEY C1S OR KEY UNIT 2DH



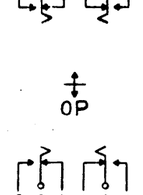
KEY TOP



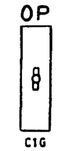
(CA) HALF OF KEY IN APP FIG. 41

KEY C1G OR KEY UNIT 2C

(D) (A)



KEY TOP



LAMP

DESIG	LOC	CODE
APTT	61C9	24 MI
POSC	71H5	24 MI

RESISTOR

DESIG	LOC	CODE
OTT	61G3	18AG
TN	49A/B5	~~145C OR 221A~~ KS-20810,L1A,100

DRAWING ISSUE

51D	NP
52A	
59A	
61A	
67D	
71D	
74A	
75B	
78D	
80D	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C46

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C46

STABILO

PART OF APP FIG. 41

RELAY	AD			AIA			AIA1			CAM1			CAM2			CAM3			CAM5		
DESIG																					
CODE	U318			U577			U1426			U71			U71			U591			U1113		
OPTION	IS			TN			TN														
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
										12,11	M	44B/F3	12,11	M	71E7	12,11	M	–			
										10,9	M	40C8	10,9	M	31F7	10,9	M	20A/G2			
TOP	10,9	M	–	11,10	M	49A/G4	10,9	M	71A4	8,7	B	54B/H0	8,7	B	–	8,7	M	53B/E2	10,9	M	39A/G1
	8,7,6	BM	71G5	9,8,7	BM	49A/G2	8,7,6	BM	–	6,5	B	37A/E3	6,5	B	–	6,5	M	57B/E2	8,7	M	11G6
	5,4,3	BM	71A3	6,5,4	BM	49A/E3	5,4,3	BM	–	4,3	B	63C/D6	4,3	B	–	4,3	M	57B/A0	6,5,4	BM	57B/C1
	2,1	B	–	2,1,3	MB	–	2,1	B	67F7	2,1	B	54B/C3	2,1	B	–	2,1	B	–	3,2,1	BM	57A/D1
	3,2,1	BM	–	2,1	B	49A/G4	2,1,3	MB	71C2	2,1	B	68/C7	2,1	B	–	2,1	M	4A/B0	3,2,1	BM	68/F5
	5,4	M	68/E7	5,4,3	BM	–	5,4	M	71F5	4,3	B	80/E1	4,3	B	–	4,3	M	31C2	6,5,4	BM	28/C3
BOT	8,7,6	BM	–	8,7,6	BM	49A/F2	7,6	B	–	6,5	M	–	6,5	M	39A/G1	6,5	M	12G7	8,7	M	61H4
	10,9	M	71F4	10,9	M	71C3	9,8	M	–	8,7	M	71D7	8,7	M	–	8,7	M	4789	10,9	M	71B5
										10,9	M	31F7	10,9	M	70D6	10,9	M	–			
										12,11	M	53B/D4	12,11	M	70D8	12,11	M	28/C5			
COIL			71E8			71B3			71D3			71A8			71B8			28/C5			71A8

RELAY	CAM5			CSR			LMS			FCAM			IMT			IMT1			MC11		
DESIG																					
CODE	U794			U477			U1129			U119			U65			U81			U834		
OPTION				TN			RA														
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
	12,11	M	28/A5										12,11	M	5A/D8	12,11	M	33A/F6			
	10,9	M	68/G5										10,9	M	4A/H3	10,9	M	4789			
TOP	8,7	M	68/G5										8,7	M	69A/D0	8,7	M	39A/E1	8,7	M	53B/C4
	6,5	M	95A/G2	7,6	M	49B/B3				7,6	M	–	6,5	M	–	6,5	M	31F3	6,5	M	–
	4,3	M	68/D2	5,4	B	–				5,4	M	–	4,3	M	–	4,3	M	12G6	4,3	M	48/H4
	2,1	B	56A/C5	2,1,3	MB	49A/G3	3,2,1	BM	71G7	3,2,1	BM	–	2,1	M	–	2,1	M	34E7	2,1	M	6A/C8
	2,1	B	1A/C3	2,1,3	MB	–	3,2,1	BM	–	2,1	M	70E1	2,1	M	–	2,1	M	–	2,1	M	44B/E3
	4,3	M	65A/B2	5,4	M	–				4,3	M	64C7	4,3	M	–	4,3	M	33A/H0	4,3	M	44B/E3
BOT.	6,5	M	57B/C2							6,5	M	–	6,5	M	–	6,5	M	–	6,5	M	44B/E3
	8,7	M	49D/H8										8,7	M	–	8,7	M	37B/D1			
	10,9	M	49D/G8										10,9	M	95B/F2	10,9	M	–			
	12,11	M	61H3										12,11	M	4B/H5	12,11	M	–			
COIL			28/A5			49B/G4			71G6			40C9			3A/D8			48/G5			11G6

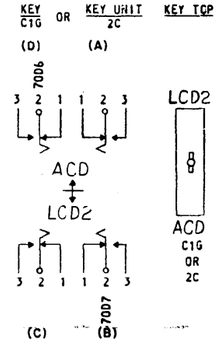
RELAY	QD			TTAI											
DESIG															
CODE	U189			U1063											
OPTION	IS			TN											
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
				8,7	M	–									
TOP	7,6	M	–	6,5	M	–									
	5,4,3	BM	–	4,3	B	49A/F1									
	2,1	B	–	2,1	B	49A/G1									
	2,1	B	–	3,1	B	71H2									
	5,4,3	BM	71A5	4,3	B	–									
BOT	7,6	M	–	6,5	M	49B/G2									
				8,7	M	–									
COIL			71F8			49B/H3									

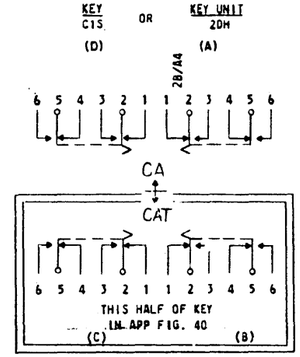
RELAY	AD	QD
DESIG		
CODE	AK4	
OPTION		IT
	CONT ARR	LOC	CONT ARR	LOC
12	M	71F3		
11	EBM	71A4		
10	EBM	71F6		
9	EMB	68/E7		
8	EMB	–		
7				
6				
5			EMB	–
4			EMB	–
3			EBM	–
2			EBM	71A4
1			M	–
COIL		71E9		71F9

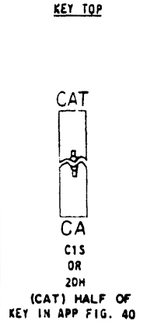
RELAY	KCCN
DESIG	
CODE	AJ202
OPTION	IT
24	–
23	–
22	–
21	–
20	–
19	–
18	–
17	–
16	–
15	–
14	21E9
13	21E8
12	21D7
11	21D7
10	21D7
9	21D7
8	21D6
7	21D6
6	21D6
5	21D6
4	21D5
3	21D5
2	21D5
1	21D5
COIL	20A/B0

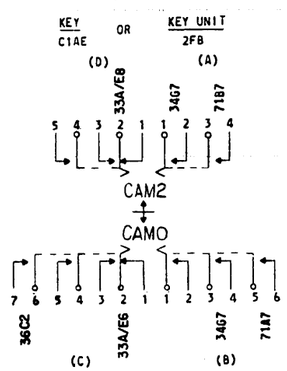
INDUCTOR

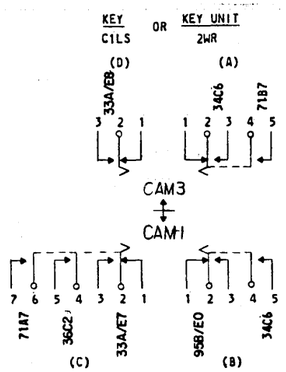
	DESIG	LOC	CODE
(TN)	CSR	49A/G3	274AH











DRAWING ISSUE

510 DS PG AMP PM AM AMP PM AM

530 PM AM AMP PM AM

57A PM AM AMP PM AM

580 PM AM AMP PM AM

600 PM AM AMP PM AM

61A PM AM AMP PM AM

620 PM AM AMP PM AM

630 PM AM AMP PM AM

64A PM AM AMP PM AM

64A PM AM AMP PM AM

670 PM

68A PM

710 PM PG

730

74A

75B

76D

78D

80D

ISSUE 102B

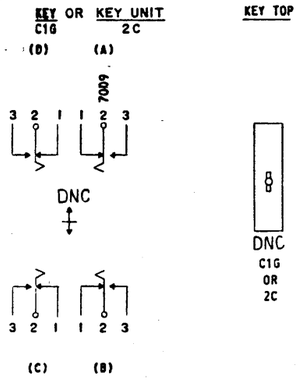
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C47

BELL TELEPHONE LABORATORIES INCORPORATED 6S

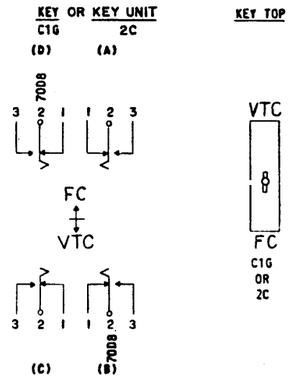
SD-25800-01-C47

STABILO

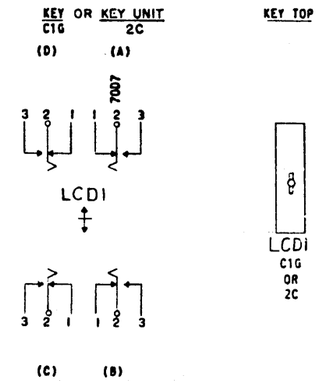
PART OF APP FIG. 41



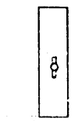
KEY TOP

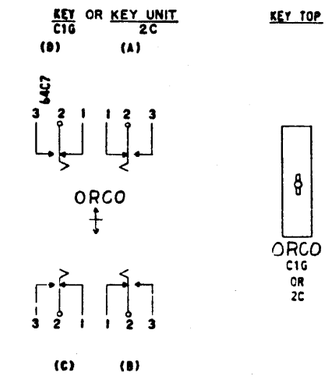


KEY TOP

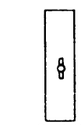


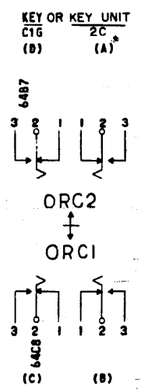
KEY TOP



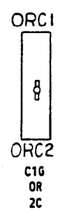


KEY TOP





KEY TOP



LAMP DESTG	LOC	CODE
CAMA	7108	~~2F M1~~
(ZVX) IMT	4A/H4	~~2F M1~~

RESISTOR DESTG	LOC	CODE
AIA	71C3	18AP
CAMA	61H4	18AG

DRAWING ISSUE
510 DS
760 DS

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-C48
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-C49

APP FIG. 42

RELAY

DESIG	CK3			CK4																	
CODE	U426			280BM																	
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	7,6	M	578/D2																		
	5,4,3	BM																			
	2,1	B	538/B4	4,7,3	BM	538/C3															
BOT.	3,2,1	BM	57A/C2																		
	5,4	M	538/B3																		
COIL			538/B3			538/C3															

LAMP

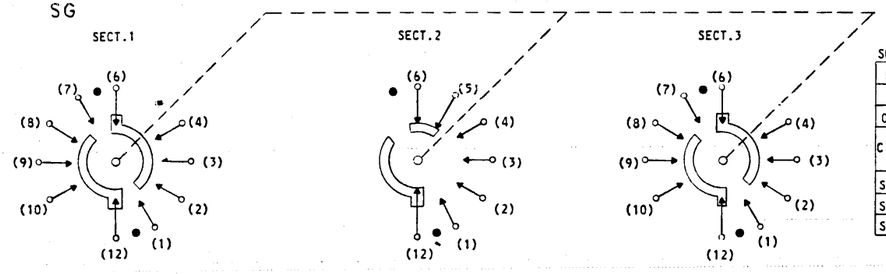
DESIG	LOC	CODE
CK2	538/A2	24 MI

RESISTOR

DESIG	LOC	CODE
L1	538/A4	184D
M1	538/A4	180J

APP FIG. 43 (A & M ONLY)

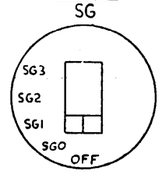
SWITCH
SG



SWITCH

DESIG	SG			
CODE	KS-13633,L95			
OPTION				
CIRCUIT	A		B	
	TERM.	LOC	TERM.	LOC
SECT.1	1-4,12	448/D3	6-10	448/D3
SECT.2	1-4,12	448/D3	5,6	31E5
SECT.3	1-4,12	70E0	6-10	70E1

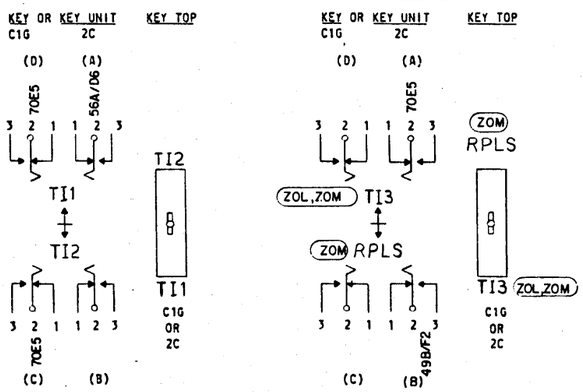
SWITCH TOP
SG



APP FIG. 44

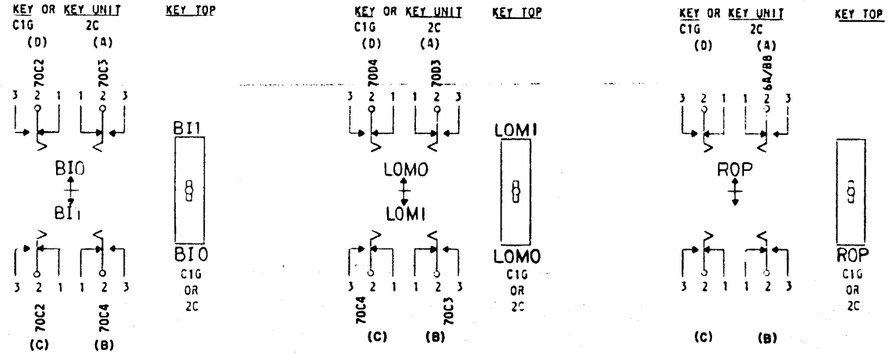
RELAY

DESIG	MC10			ROP			TVA														
CODE	U81			U351			U58														
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M																			
	10,9	M	70D2				11,10	M	6A/D4												
	8,7	M	70D3				9,8	M	54B/F8												
	6,5	M	64C7	8,7	M	6A/B9	7,6	M	11F6												
	4,3	M	70E5	6,5,4	BM	-	5,4	M	-												
	2,1	M	-	3,2,1	BM	-	3,2,1	BM	6A/C8												
BOT.	2,1	M	-	3,2,1	BM	-	2,1	B	38D9												
	4,3	M	67D9	5,4	M	57A/C2	5,4,3	BM	20A/C1												
	6,5	M	-	7,6	M	6A/G3	8,7,6	BM	29D7												
	8,7	M	6A/B8				10,9	M	69D/E4												
	10,9	M	70C6																		
	12,11	M	70C8																		
COIL			11F6			6A/B9			6A/C4												



LAMP

DESIG	LOC	CODE
ROP	6A/G3	24 MI



DRAWING ISSUE: 51D, 53D, 56D, 57A, 63D, 64A, 66A, 70, 73D, 74A, 75B, 76D, 80D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-C49
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

STABILO

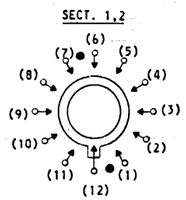
SD-25800-01-C49

APP FIG. 45

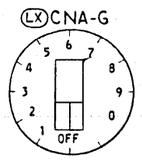
RELAY DESIG	KCN			KCN1								
CODE	U81			U1301								
OPTION	LX			LX								
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	21H5									
	10,9	M	21H5									
	8,7	M	21H5									
	6,5	M	21H5	6,5	M	–						
	4,3	M	21H6	4,3	M	21H7						
	2,1	M	21H6	2,1	M	21H7						
BOT.	2,1	M	21H6	2,1	M	21H8						
	4,3	M	21H6	4,3	M	21H9						
	6,5	M	21H6	6,5	M	–						
	8,7	M	21H6									
	10,9	M	20A/C2									
	12,11	M	21C4									
COIL			20A/B0			20A/B2						

SWITCH (LX) CNA-G

SECT. 1,2

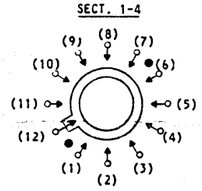


SWITCH TOP (LX) CNA-G

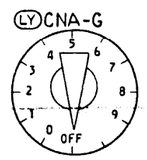


SWITCH (LY) CNA-G

SECT. 1-4

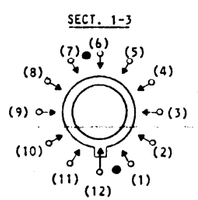


SWITCH TOP (LY) CNA-G

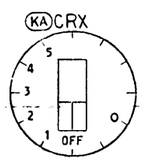


SWITCH (KA) CRX

SECT. 1-3

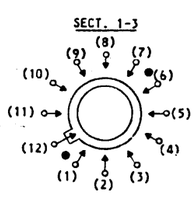


SWITCH TOP (KA) CRX

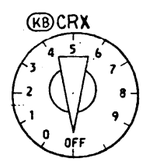


SWITCH (KB) CRX

SECT. 1-3



SWITCH TOP (KB) CRX



SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	CNA	CNA	CNB	CNB	CNC	CNC	CND	CND	CNE	CNE	CNF	CNF	CNG	CNG	CRX	CRX
CODE	KS-13633	KS-14618	KS-13633	KS-14618	KS-13633	KS-14618	KS-13633	KS-14618	KS-13633	KS-14618	KS-13633	KS-14618	KS-13633	KS-14618	KS-13633	KS-14618
LIST	96	41	96	41	96	41	96	41	96	41	96	41	96	41	107	40
OPTION	LX	LY	LX	LY	LX	LY	LX	LY	LX	LY	LX	LY	LX	LY	KA	KB
SECT. NO.																
1	21G5	21D2	21G5	21D2	21G6	21D2	21G6	21D3	21G7	21D3	21G7	21D4	21G8	21D4	21G1	21D0
2	21G5	21D2	21G5	21D2	21G6	21D2	21G6	21D3	21G7	21D3	21G7	21D4	21G8	21D4	21G1	21D0
3		21D5		21D6		21D6		21D6		21D7		21D7		21D8	21G3	21G4
4		21D5		21D6		21D6		21D6		21D7		21D7		21D8		

DRAWING ISSUE

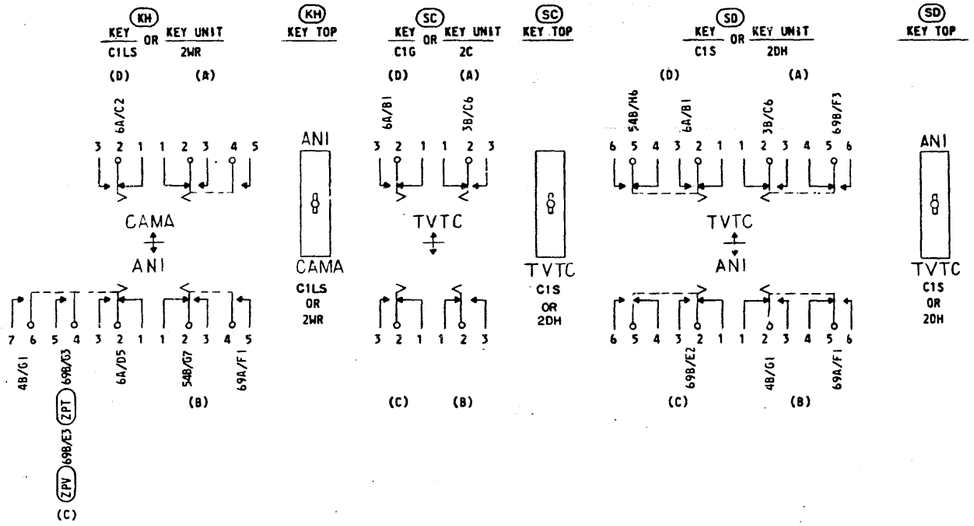
51D	APS ASS UP
57D	PH FRA ALS
73D	

APP FIG. 46

RELAY

DESIG	CAM4																	
CODE	U611																	
OPTION																		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	9,8,7	BM	69A/B6															
	6,5,4	BM	69B/B2															
	3,2,1	BM	69A/B6															
BOT.	3,2,1	BM	69A/C5															
	6,5,4	BM	69A/C5															
	9,8,7	BM	69A/D5															
COIL			69B/B2															

APP FIG. 47



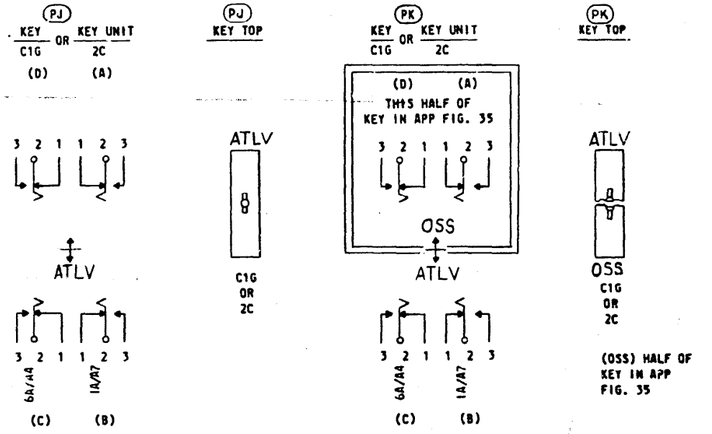
APP FIG. 48

RELAY

DESIG	ASDR			ATLV			CL3			DCN					
CODE	U1317			U1054			U261			U1054					
OPTION				IK			IK			IK					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	9,8	M	-	8,7	M	5A/F1				8,7	M	-			
	7,6	M	-	6,5	M	59E8				6,5	M	-			
	5,4	M	-	4,3	B	-				4,3	B	-			
	3,2,1	BM	69B/E1	2,1	B	56B/C0	2,2,1	BM	53A/B6	2,1	B	-			
BOT.	2,1	B	5A/C4	2,1	B	14B/E4	2,1	M	-	2,1	B	12D7			
	5,4,3	BM	-	4,3	M	6A/D6	4,3	M	-	4,3	M	69B/F4			
	7,6	M	69B/E5	6,5	M	69B/G2				6,5	M	-			
				8,7	M	14B/E4				8,7	M	-			
COIL			4B/G2			6A/A7			53A/B5			69B/G4			

RELAY

DESIG	DCN		CL3			
CODE	AK10					
OPTION	IL					
	CONT ARR	LOC	CONT ARR	LOC		
12	BM	12D7				
11	M	69B/F4				
10	M	-				
9	M	-				
8	M	-				
7						
6						
5			M	-		
4			BM	-		
3			BM	-		
2			BM	-		
1			BM	53A/B5		
COIL		69B/H4		53A/B6		



APP FIG. 49

RELAY

DESIG	4WG		OTL6		LO	
CODE	AJ39		AF132		AJ75	
OPTION	PY		PY		GS	
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	74D2	M	22A/H2	B	48A/D4
11	EBM	448/D6	M	22A/H2	M	48A/G6
10	EBM	448/E4	M	22B/H2	EBM	-
9	EBM	74G2	M	22B/H2		
8	EBM	448/D2	BM	-	EBM	-
7	EBM	3202	M	24A/G1		
6	EBM	3188	BM	23A/G6	EMB	48A/D6
5	EBM	50A/D7	M	23A/G6		
4	EBM	50A/D7	M	25GQ		
3	EBM	30F5	M	26A/E6	B	
2	EBM	65A/B3	M	24A/G1	EBM	-
1	EBM	3282	M	-	BM	-
COIL		74D2		20A/B5		48A/D7

RELAY

DESIG	4W			4WA			4WB			4WC		
CODE	U188			U177			U177			U177		
OPTION												
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	85A/C1									
	10,9,8	BM	74D7									
	7,6	M	74BO	9,8,7	BM	12E3	9,8,7	BM	4H5	9,8,7	BM	5IA/G7
	5,4	M	1A/C2	6,5,4	BM	12B5	6,5,4	BM	9D7	6,5,4	BM	50A/F4
	2,1,3	MB	1A/C2	3,2,1	BM	12C6	3,2,1	BM	9D6	3,2,1	BM	50A/E4
BOT.	2,1,3	MB	48B/A4	3,2,1	BM	20B/C3	3,2,1	BM	52B/C7	3,2,1	BM	50A/C2
	5,4	M	a	6,5,4	BM	20A/D5	6,5,4	BM	12B8	6,5,4	BM	50A/D2
	7,6	M	50A/D8	9,8,7	BM	14B/F4	9,8,7	BM	39A/F3	9,8,7	BM	11D6
	10,9,8	BM	b									
	12,11	M	74E1									
COIL			1A/C3			74A2			74B2			74C2

(PX) 50A/D7
*(PY) 74D1
(EO) 51B/B0
(ER) 5B/F2

RELAY

DESIG	4WD						4WF			BB1						FA			KTN3		
CODE	U177						U177			U81						U828			U144		
OPTION	AL																				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP										12,11	M	14B/G3							12,11	M	39B/D8
										10,9	M	14B/G3				10,9	M	9E3	10,9	M	39B/C4
										8,7	M	14B/G3				8,7	M	9E8	8,7	M	39B/D1
	9,8,7	BM	65B/B3				9,8,7	BM	11A2	6,5	M	14B/G3				6,5	M	9E8	6,5	M	39B/C0
	6,5,4	BM	65B/D2				6,5,4	BM	28A/C6	4,3	M	14B/G3				4,3	M	9E8	4,3	M	39B/G3
	3,2,1	BM	-				3,2,1	BM	37A/D7	2,1	M	14B/G3				2,1	M	9E8	2,1	M	39B/G2
BOT.	3,2,1	BM	-				3,2,1	BM	50B/C4	2,1	M	14B/G3				2,1	M	9E8	2,1	M	39B/C0
	6,5,4	BM	-				6,5,4	BM	40A6	4,3	M	14B/G3				4,3	M	9E8	4,3	M	39A/B2
	9,8,7	BM	65B/F4				9,8,7	BM	53B/F5	6,5	M	13A/C2				6,5	M	9E8	6,5	M	57A/B7
										8,7	M	-				8,7	M	-	8,7	M	57A/B3
										10,9	M	-							10,9	M	39B/D5
										12,11	M	-							12,11	M	39B/D7
COIL			74F2						74E2			12A5						9B3			39A/D3

RELAY

DESIG							MC15			NTC2			NTH1			OPR			OTL3		
CODE							U81			U1375			U460			U67			U144		
OPTION										EY			EY			EY					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP							12,11	M	85E6										12,11	M	22A/H0
							10,9	M	85D6										10,9	M	22A/H0
							8,7	M	84G0										8,7	M	22B/H1
							6,5	M	84G1							7,6	M	37A/C3	6,5	M	22B/H1
							4,3	M	76H2	5,4	M	9G5	5,4	M	52B/C7	5,4	M	37A/E8	4,3	M	24A/G0
							2,1	M	76B6	3,2,1	BM	50A/F7	3,2,1	BM	50A/F9	3,2,1	BM	-	2,1	M	24A/G0
BOT.							2,1	M	56B/F5	3,2,1	BM	50A/G8	3,2,1	BM	50A/F9	3,2,1	BM	-	2,1	M	23A/G4
							4,3	M	84F7	5,4	M	-	5,4	M	-	5,4	M	-	4,3	M	23A/G4
							6,5	M	84E7										6,5	M	25GO
							8,7	M	32C7										8,7	M	26A/E5
							10,9	M	84G5										10,9	M	76H2
							12,11	M	84G4										12,11	M	-
COIL									1A3			9H5			52B/C9			37A/C3			20A/B4

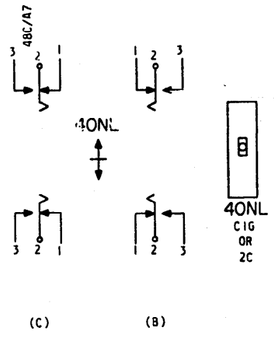
RELAY

DESIG	OTL4			PRI									TTL3			TTL4			VER10		
CODE	U144			U67									U81			U81			U136		
OPTION				EY																	
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	22A/H1										12,11	M	14B/G2	12,11	M	14B/G3			
	10,9	M	22A/H1										10,9	M	14B/G2	10,9	M	14B/G3	10,9	M	13A/H1
	8,7	M	22B/H1										8,7	M	14B/G2	8,7	M	14B/G3	8,7	M	13A/H1
	6,5	M	22B/H1	7,6	M	87E2							6,5	M	14B/G2	6,5	M	14B/G3	6,5	M	14B/D0
	4,3	M	25G7	5,4	M	-							4,3	M	14B/G2	4,3	M	14B/G3	4,3	M	14B/D0
	2,1	M	23A/F9	3,2,1	BM	37A/E8							2,1	M	14B/G2	2,1	M	14B/G3	2,1	M	54B/E2
BOT.	2,1	M	20B/F7	3,2,1	BM	-							2,1	M	14B/G2	2,1	M	14B/G3	2,1	M	14B/D2
	4,3	M	24B/F2	5,4	M	87D0							4,3	M	14B/G2	4,3	M	14B/G3	4,3	M	14B/D2
	6,5	M	20B/E8										6,5	M	13A/C2	6,5	M	13A/C2	6,5	M	14B/D4
	8,7	M	-										8,7	M	28B/H1	8,7	M	-	8,7	M	14B/D4
	10,9	M	-										10,9	M	76H2	10,9	M	-			
	12,11	M	-										12,11	M		12,11	M	-			
COIL			20B/B3			87E2									12A3			12A5			12A8

RELAY

DESIG	NTH1		OPR		PRI		NTC2	
CODE	AK37				AK26			
OPTION	EZ				ZMQ		EZ	
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	50A/F9			M	87E2		
11	EBM	50A/F9			B	-		
10	M	52B/C7			BM	37A/E8		
9	B	-			B	-		
8	EMB	-			M	87D0		
7								
6								
5			B	-			M	-
4			B	-			BM	50A/F7
3					-		B	-
2			EBM	37A/E8			BM	50A/G8
1			M	37A/C3			M	9G5
COIL		52B/C9		37A/C3		87E2		9H3

KEY OR CIG (D) — KEY UNIT 2C (A) — (ZTC) KEY TOP



LAMP

	DESIG	LOC	CODE
(PY)	4W	74G2	24 MI
	OPR	37A/D0	24 MI
(ZMQ)	PR	37A/D9	24 MI
(GS)	LO	48A/G7	24 MI

RESISTOR

	DESIG	LOC	CODE
(GS)	LO	48A/D6	KS-19152, L1, 1500

TUBE, ELECTRON

	DESIG	LOC	CODE
(GS)	LO	48A/D6	313CC

DRAWING ISSUE

51D	EC, AM, AP
52A	EC, AM, AP
53D	EC, AM, AP
55A	EC, AM, AP
56D	EC, AM, AP
57A	EC, AM, AP
58D	EC, AM, AP
61A	EC, AM, AP
63D	EC, AM, AP
64A	EC, AM, AP
65D	EC, AM, AP
66A	EC, AM, AP
67D	EC, AM, AP
68A	EC, AM, AP
71D	EC, AM, AP
73D	EC, AM, AP
74A	EC, AM, AP
75B	EC, AM, AP
76D	EC, AM, AP
78D	EC, AM, AP
79A	EC, AM, AP
80D	EC, AM, AP

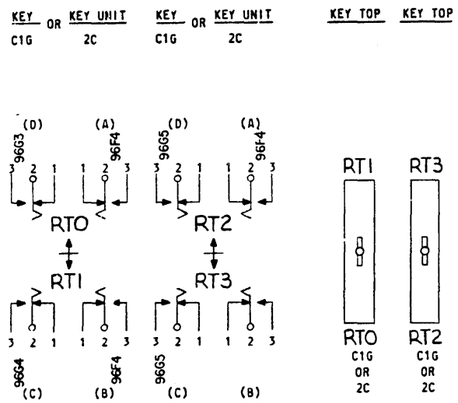
ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C52

BELL TELEPHONE LABORATORIES INCORPORATED 6S

E-7425-0-1 (12-61)

APP FIG. 50 (MFR DISC)



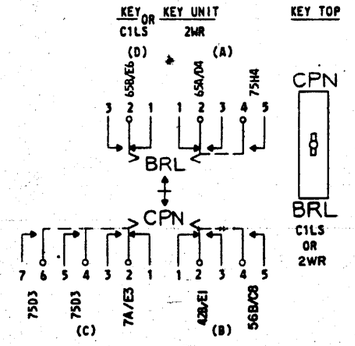
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C53

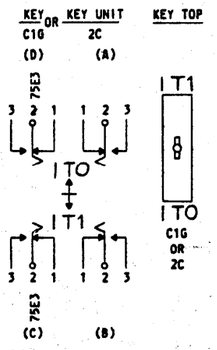
BELL TELEPHONE LABORATORIES INCORPORATED 6S

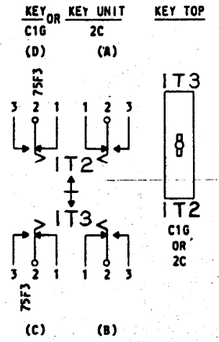
APP FIG. 51 (MFR DISC.)

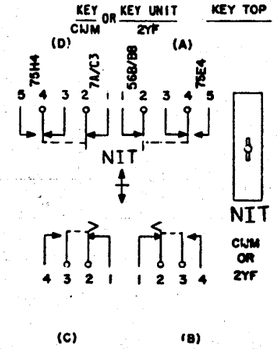
RELAY	BRL			BRL1			BTG			CE			EV			ITRK			MC13		
DESIG	U1164			U1164			U806			U1301			U1301			U127			U81		
CODE																					
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
																			12,11	M	75A3
TOP	12,11,10	BM	75H3	12,11,10	BM	75E4													10,9	M	75B3
	9,8	B	-	9,8	B	-													8,7	M	75B3
	7,6	B	56B/D8	7,6	B	56B/D7	7,6	M	-	6,5	M	75C3	6,5	M	75C3	7,6	M	75E5	6,5	M	75C3
	5,4	B	7A/D3	5,4	B	7A/D2	5,4	M	-	4,3	M	75B5	4,3	M	75F3	5,4,3	BM	75H4	4,3	M	75D3
	2,1,3	MB	75H3	2,1,3	MB	65B/07	2,1,3	MB	56B/E7	2,1	M	-	2,1	M	75F3	2,1	B	56B/C8	2,1	M	75D3
	2,1,3	MB	6BA8	2,1,3	MB	75H4	2,1	B	56B/C7	2,1	M	-	2,1	M	75G3	3,2,1	BM	56B/E7	2,1	M	75G3
BOT.	6,5,4	BM	65A/D6	6,5,4	BM	65A/D6	4,3	M	75H4	4,3	M	-	4,3	M	-	5,4	M	42B/D1	4,3	M	75B6
	8,7	M	56B/A7	8,7	M	56B/A7	6,5	M	-	6,5	M	-	6,5	M	-				6,5	M	-
	10,9	PM	56B/D7	10,9	PM	56B/D8													8,7	M	75E7
																			10,9	M	-
																			12,11	M	-
COIL			56B/C7			56B/D8			75H3			75C3			75C3			75E5			11C6

RELAY	ODD			OFO			OF1														
DESIG	U1301			U1334			U1334														
CODE																					
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP	6,5	M	75B3																		
	4,3	M	75E3	4,3	M	75A3	4,3	M	75B3												
	2,1	M	75E3	2,1	M	75G3	2,1	M	75G3												
BOT.	2,1	M	75F3	2,1	M	-	2,1	M	-												
	4,3	M	-	4,3	M	-	4,3	M	-												
	6,5	M	-																		
COIL			75B3			75A3			75B3												









LAMP

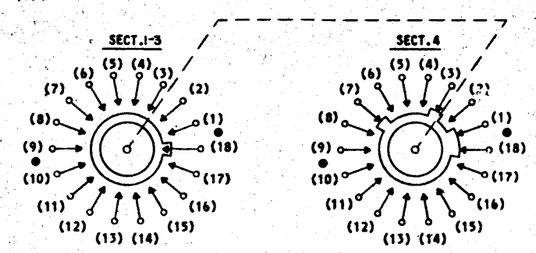
DESIG	LOC	CODE
BRL	56B/A7	2Y MI

RESISTOR

DESIG	LOC	CODE
CPNE	75B4	TOPA 390Ω KS-20810, L1A, 298 ± 1%

APP FIG. 52 (MFR DISC.)

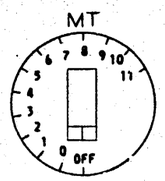
SWITCH
MT



SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	MT	
CODE	KS-14721, L8	
OPTION		
SECT NO.	TERM.	LOC
1	1-18	7C/F4
2	1-18	7B/A3
3	1-18	7B/D3
4	1, 18	7B/D3
	3	7C/F5

SWITCH TOP



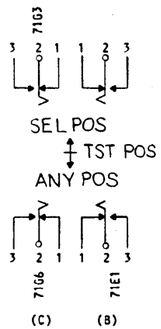
ISSUE
51D
52A
53D
55A
56D
57A
61A
67D
76D
78D
80D

ISSUE 100B

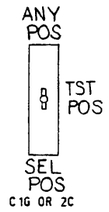
MASTER TEST CONTROL CIRCUIT	(2)	SD-25800-01-C54
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

APP FIG. 53 (A&M ONLY)

KEY OR KEY UNIT: C1G (D), 2C (A)

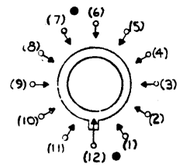


KEY TOP



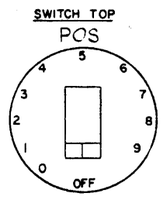
SWITCH POS

SECT 1,2



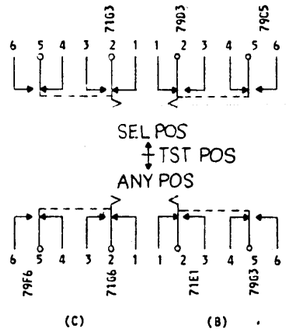
DESIG	POS
CODE	KS-13633
LIST	96
SECTION NO.	
1	-
2	71F1

SWITCH TOP

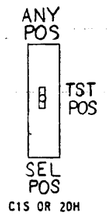


APP FIG. 54 (MFR DISC)

KEY OR KEY UNIT: C1S (D), 20H (A)

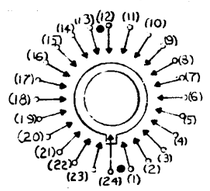


KEY TOP



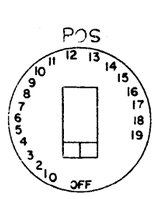
SWITCH POS

SECT 1,2



DESIG	POS
CODE	KS-13779
LIST	99
SECTION NO.	
1	79C5
2	71F1

SWITCH TOP

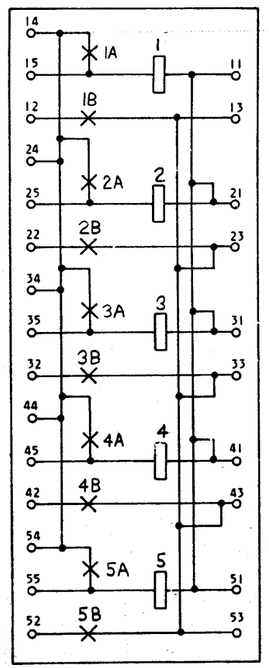


DRAWING ISSUE

51D	GA FM AM
52A	GA FM AM
650	MM AK AM
71D	RJF
72A	RJF
760	
78D	
80D	

PART OF APP FIG. 55

RELAYS



DESIG	LOCATION COIL	B CONT
[1]CTTO,1,2,4,7	26B/G4	26B/G8
[1]CUTO,1,2,4,7	26B/G6	26B/G9

RELAYS

DESIG	ATC		OV		CON		KINCI		CRI		CRO		RE		TRF		TRF1		TTL5		MC17		FDLP		PDK		FDLP	
CODE	AK4				AK34				AF132		AJ5		AJ15		AJ5		AJ5		AF132		AF24		AF136 PR		AK22 P3			
OPTION																												
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	78D3			B				M	26B/C5	EBM		EBM	44A/F7	EBM	78E6	EBM	78A2	M	148/H3	M	56A/E4	PB		EBM	78E3		
11	EBM	78A3			BM	7885			M	26B/C5	EBM	7885	EBM	37B/E1	EBM	39A/G0	EBM		M	148/H3	M		M		EBM			
10	EBM	33B/E6			M	78A6			M	26B/C5	EBM	26B/C1	EBM	44B/D5	EBM	39B/E6	EBM	44A/F7	M	148/H3	M	78H2	M		EBM			
9	EMB	31B3			B				M	26B/C5	EBM	26B/C1	EBM		EBM	39B/E4	EBM		M	148/H3	M	78G2			EBM			
8	EMB	34D4			B	7807			BM		EBM	26B/C1	EMB	44B/C1	EBM	78C3	EBM	31E4	BM		M	78G2	EMB		EMB			
7									M	26B/C5	EBM	26B/C1	EBM		EBM	78B3	EBM	31E3	M	13A/C3	M	78F2						
6									BM		EBM	26B/C1	EMB	31F4	EBM	31G3	EBM	31C3	BM		M	78E2	EBM	79D2				
5			EMB				B		M	26B/C2	EBM	26B/C4	EMB	54B/H2	EBM	44B/E5	EBM	31F7	M	288/H1	M	78E/	B	79F6			EMB	79F6
4			EMB				BM	44B/E5	M	26B/C2	EBM	26B/C4	EBM	44B/D5	EBM	44B/E5	EBM		M	148/H3	M	78C7					EBM	
3			EBM				M	44B/E5	M	26B/C2	EBM	26B/C4	EBM		EBM	44B/D1	EBM	78E6	M	148/H3	M	78B7					EBM	
2			EBM	78B6			BM	33B/E5	M	26B/C2	EBM	26B/C4	EBM	44B/C0	EBM	12C1	EBM		M	148/H3	M	33B/E7	PBEM	79F6			EBM	79F6
1			M				M	44B/E1	M	26B/C2	EBM	26B/C4	EBM	44B/D1	EBM	54B/H2	EBM	78B5	M	148/H3	M	78B6	M				EBM	79D2
COIL		78C3		78B6		78A6		31C3		78A3		78A3		78C6		78B3		78B3		12A2		11D3		79A3		78E3		79A3

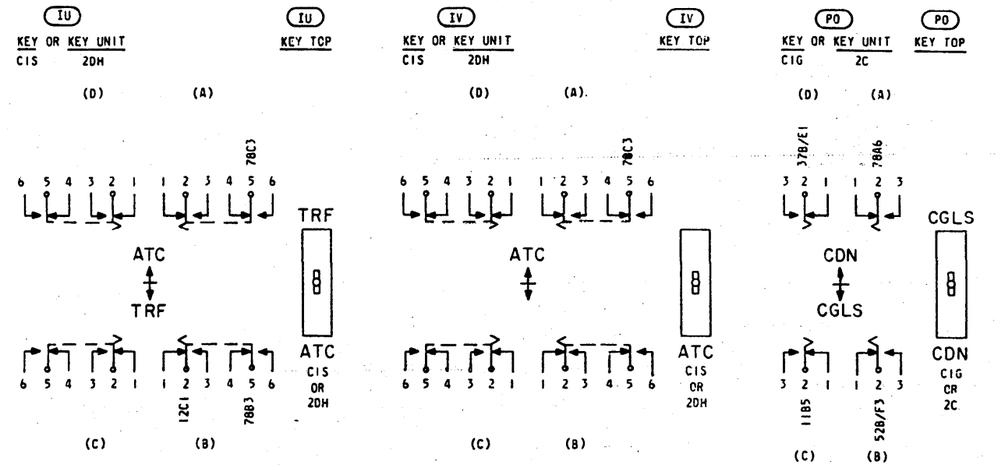
ISSUE 101A

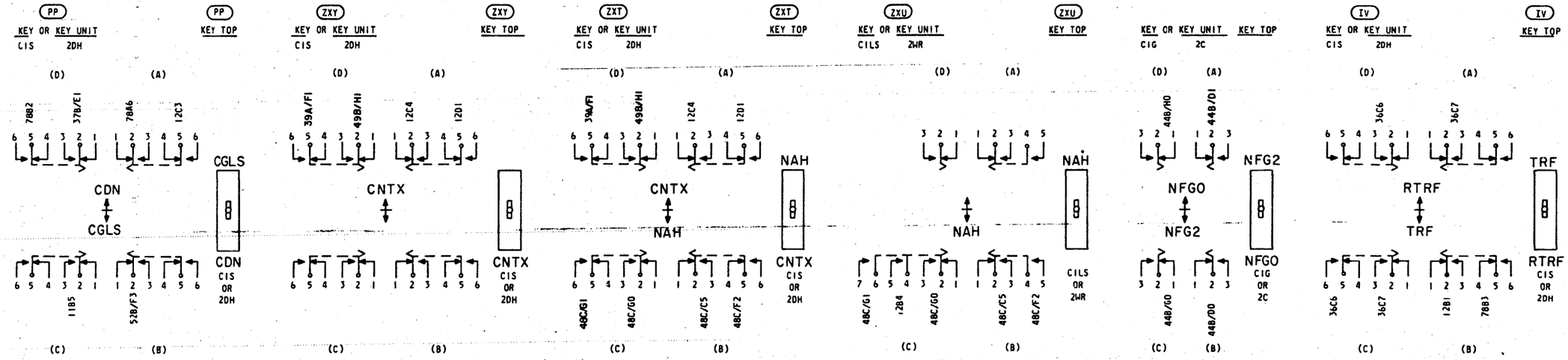
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C55

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

STABILO

PART OF APP FIG 55





LAMP DESIG		LOC	CODE
	ATC	78C3	24 MI
	CDN	78A5	24 MI
EG	[5] CTTO,1,2,4,7	26B/F8	24 MI
EG	[5] CUTO,1,2,4,7	26B/F9	24 MI
	TRF	78C3	24 MI

DRAWING ISSUE
71D
72A
73D
76D
78D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C56

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C56

APP FIG. 56

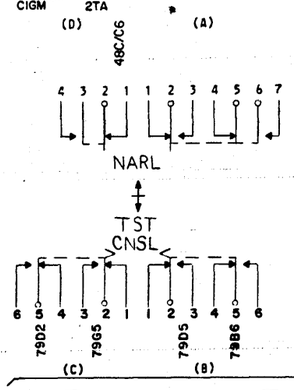
RELAY

DESIG	ATNT				KTN4		PRDY		TTL6		TTL7		TTL8		PRDY		PLTO								DESIG
CODE	AF132				AF132		AF113		AF132		AF132		AF132		AK8										CODE
OPTION							GX						MS		GY										OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	3A/D6			M	39A/B3			M	14B/G5	M	14B/G5	M	14B/G6	M	79B3									12
11	M	40B/D0			M	39B/G2			M	14B/G5	M	14B/G5	M	14B/G6	M	79G6									11
10	M	95B/F3			M	39B/G3	EBM	79G6	M	14B/G5	M	14B/G5	M	14B/G6	EBM	79F5									10
9	M	54B/D0			M	39B/D0	B	-	M	14B/G5	M	14B/G5	M	14B/G6	EMB	-									9
8	BM	54B/F2			BM	31B3	EBM	79A6	BM	-	BM	-	BM		EM	79A6									8
7	M	31D6			M	39B/C2	B	-	M	13A/C3	M	13A/C4	M	13A/C4											7
6	BM	39A/E1			BM	-	EBM	79F5	BM		BM	-	BM	-											6
5	M	20A/F2			M	39B/D4	B	-	M		M	-	M	28B/H1			EM	79C3							5
4	M	31G2			M	39B/D6	EBM	79B3	M	14B/G5	M	14B/G5	M	14B/G6			B	79C3							4
3	M	54B/D4			M	31F3	B	-	M	14B/G5	M	14B/G5	M	14B/G6			EBM	79B4							3
2	M	4A/G0			M	31F4			M	14B/G5	M	14B/G5	M	14B/G6			EBM	-							2
1	M	11B/F4			M	39B/H0			M	14B/G5	M	14B/G5	M	14B/G6			M	79B4							1
COIL		3A/D6				39A/D1		79B3		12A3		12A3		12A1		79B3		79C3							COIL

RELAY

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																									12
11																									11
10																									10
9																									9
8																									8
7																									7
6																									6
5																									5
4																									4
3																									3
2																									2
1																									1
COIL																									COIL

KEY CIGM OR KEY UNIT 2TA



KEY TOP

LAMP

DESIG	LOC	CODE
(ZW) ATNT	4A/G1	2W MI
CB	79D3	2W MI
LB	79E2	2W MI
PO	79F2	2W MI
(GY) PLTO	79A5	2W MI
(CA) SPBL	79F2	2W MI

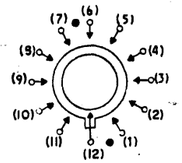
RESISTOR

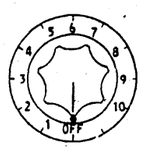
DESIG	LOC	CODE
GT	79F4	1074, 39Ω, KS-20810, L1A, 499±1%

SWITCH (JR) POS LOOP

SWITCH TOP (JR) POS LOOP

SECT. 1,2





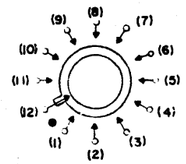
(SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	POS LOOP	POS LOOP
CODE	KS-14618	KS-14618
LIST	26	38
OPTION	JR	JS
SECT NO.		
1	7905	7905
2	-	

SWITCH (JS) POS LOOP

SWITCH TOP (JS) POS LOOP

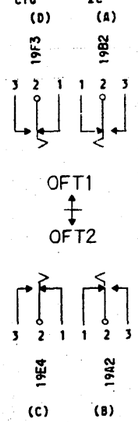
SECT. 1



APP FIG. 57

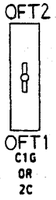
(DW)

KEY C1G OR KEY UNIT 2C



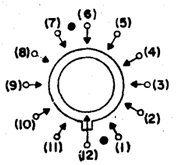
(DW)

KEY TOP

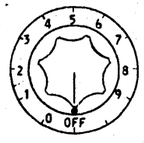


SWITCH (JT) OFU

SECT. 1-4



SWITCH TOP (JT) OFU

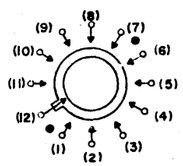


(SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	OFU	OFU	OFU
CODE	KS-14618	KS-14618	KS-14618
LIST	5	41	42
OPTION	JT	JU	DX
SECT NO			
1	19E3	19E3	19E3
2	19F4	19F4	19F4
3	19F4	19F4	19F4
4	19E4	19E4	19E4
5			19F2

SWITCH (JU) OFU

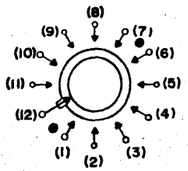
SECT. 1-4



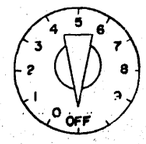
SWITCH TOP (JU) OFU

SWITCH (DX) OFU

SECT 1-5

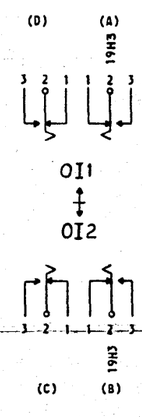


SWITCH TOP (DX) OFU



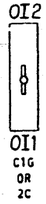
(KN,CF)

KEY C1G OR KEY UNIT 2C



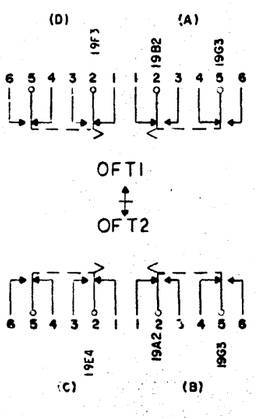
(KN,CF)

KEY TOP



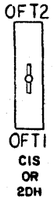
(DX)

KEY C1S OR KEY UNIT 2DH



(DX)

KEY TOP



DRAWING ISSUE

510	RIS
52A	EN
54B	
57A	EN
58D	DP
59A	DP
60D	NL
61A	NC
62D	DX
63D	EN
68A	LFP
70A	LFP
72A	EN
73D	
74A	
75B	
76D	
77D	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-C57

6S

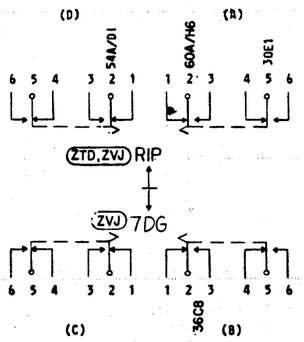
STABILO

APP FIG. 58

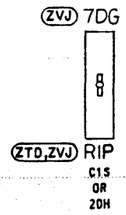
RELAY																							
DESIG	2LN			KTBS			RIP			TBSK			TERK			UAK							
CODE	U1113			U1172			U1289			U814			U814			U422							
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	10,9	M	54A/A4	10,9	M	54A/D4	10,9	M	54A/B0															
	8,7	M	80/F5	8,7,6	BM	188/E6	8,7	M	54A/C1															
	6,5,4	BM	188/A2	5,4,3	BM	30C1	6,5,4	BM	-															
	3,2,1	BM	188/C5	2,1	B	28A/C2	3,2,1	BM	-	3,2,1	BM	60A/D3	3,2,1	BM	60A/D3	3,2,1	BM	-						
BOT.	3,2,1	BM	30E7	2,1	M	3085	3,2,1	BM	57B/C5	2,1	B	-	2,1	B	-	2,1	M	30E8						
	6,5,4	BM	188/B0	4,3	M	3080	6,5,4	BM	57A/G0	4,3	M	28A/B1	4,3	M	-									
	8,7	M	30E8	6,5	M	30E3	8,7	M	54A/D6															
	10,9	M	54A/D8	8,7	M	30E2																		
COIL			54A/A4			208/B7			54A/A0			30A0			30A5			188/B2						

RELAY																							
DESIG																							
CODE																							
OPTION																							
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																							
BOT.																							
COIL																							

KEY C1S OR KEY UNIT 20H



KEY TOP

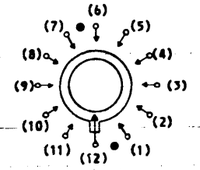


LAMP

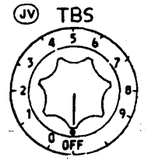
DESIG	LOC	CODE
2LN	54A/C8	24 MI
RIP	54A/C6	24 MI

SWITCH (JV) TBS

SECT. 1,2

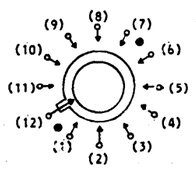


SWITCH TOP

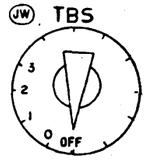


SWITCH (JW) TBS

SECT. 1

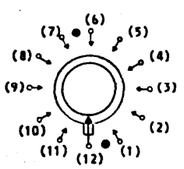


SWITCH TOP

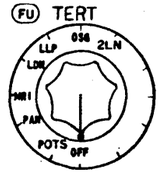


SWITCH (FU,FV,CM) TERT

SECT. 1,2

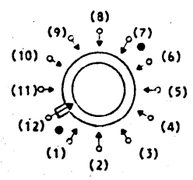


SWITCH TOP

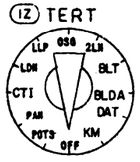


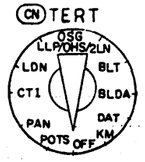
SWITCH (IZ,CN) TERT

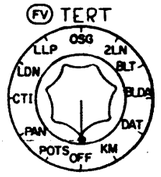
SECT. 1

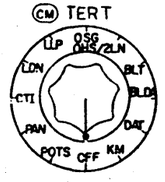


SWITCH TOP









SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	TBS	TBS	TERT	TERT
CODE	KS-14618	KS-14618	KS-14618	KS-14618
LIST	26	38	26	38
OPTION	JV	JW	FU,FV,CM	IZ,CN
SECT NO.				
1	3080	3080	3081	3081
2	-		-	

DRAWING ISSUE

51D	REL, ARR
52A	REL, ARR, CL
53D	CL
54D	CL
600	ALL
61A	ALL
62D	ALL
63D	ALL
67D	INT
68A	INT
730	
750	
760	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C58

BELL TELEPHONE LABORATORIES INCORPORATED

65

STABILO

APP FIG. 59 (MFR DISC.)

RELAY

DESIG	PE		PER		PRT																		DESIG
CODE	AJ72		AJ68		AF100																		CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM	-	EM	-	EMB	-																	12
11	BM	32C2	B	-	M	-																	11
10	BM	56B/E2	M	65B/D6	EBM	-																	10
9	BM	-	B	7A/C3	M	-																	9
8	BM	56B/E5	EBM	65A/D5	EBM	65B/E5																	8
7	BM	-	B	-																			7
6	BM	-	EMB	56B/D4	EMB	-																	6
5	BM	65B/E6	B	-																			5
4	BM	-	M	-	EBM	65A/E5																	4
3	BM	65A/E5	B	-	M	-																	3
2	BM	56B/C5	M	56B/A6	EBM	-																	2
1	BM	-	BM	-	M	56B/C5																	1
COIL		32B2		56B/C4		65A/B4																	COIL

RELAY

DESIG																							DESIG
CODE																							CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																							12
11																							11
10																							10
9																							9
8																							8
7																							7
6																							6
5																							5
4																							4
3																							3
2																							2
1																							1
COIL																							COIL

LAMP

DESIG	LOC	CODE
PE	56B/A6	2Y MI

DRAWING ISSUE

51D	CB
52A	CB
55A	CB
67D	MS
80D	CB

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C59

BELL TELEPHONE LABORATORIES INCORPORATED SUBSIDIARY 6S

SD-25800-01-C59

STABILO

E-7422-A-2 (12-62)

APP FIG. 60

RELAY

DESIG	LLP			LLP1			LLP2			LLP3			LLPK								
CODE	U86			U611			U611			U81			U1099								
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	3A/B2							12,11	M	48C/D8									
	10,9	M	62B/G0							10,9	M	88/E9	11,10	M	30D4						
	8,7	B	54B/C5							8,7	M	31A7	9,8,7	BM	52B/D4						
	6,5	B	33A/D6	9,8,7	BM	3A/E2	9,8,7	BM	12F5	6,5	M	8A/E9	6,5	M	46H4						
	4,3	B	31E2	6,5,4	BM	3E2	6,5,4	BM	48C/G5	4,3	M	33A/H0	4,3	M	54B/D1						
	2,1	B	64B9	3,2,1	BM	30F2	3,2,1	BM	34B/B2	2,1	M	31B2	2,1	B	54A/C3						
BOT.	2,1	B	54A/C3	3,2,1	BM	28/D4	3,2,1	BM	57B/B2	2,1	M	53B/F3	2,1	B	—						
	4,3	B	40B/F1	6,5,4	BM	40B/B1	6,5,4	BM	48C/G5	4,3	M	2A/D6	4,3	M	62B/G5						
	6,5	B	38G2	9,8,7	BM	37B/E3	9,8,7	BM	20A/E1	6,5	M	80/B7	6,5	M	54B/F3						
	8,7	M	—							8,7	M	—	5,8,7	BM	88/A1						
										10,9	M	—	11,10	M	29C3						
										12,11	M	—									
COIL			3A/B2			62B/G2			62B/G2			62B/H2			30C3						

RELAY

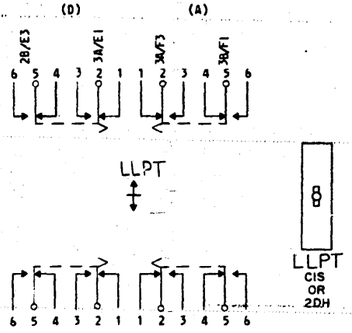
DESIG												
CODE												
OPTION												
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP												
BOT.												
COIL												

RELAY

DESIG	LLPV		LLPA		LRR		LRS	
CODE	AJ94		AJ15		AK7			
OPTION			ZTZ		BR		BR	
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EM	3B/C0	EBM		EBM	30E2		
11	BM	62B/G5	EBM		EBM	30E3		
10	M	60B/C4	EBM		EBM	30D3		
9	B	80/E3	EBM		EM	—		
8	EBM	3B/E0	EMB		EM	—		
7	B	38G3	EBM					
6	EM	60B/D3	EMB					
5	B	33A/C8	BTB				EM	30D3
4	EBM	60B/C3	EBM				EM	—
3	M	31B2	EBM				EBM	—
2	EBM	30E2	EBM	80/B6			EBM	—
1	M	20A/H3	EBM	11H1			EBM	30F1
COIL		3B/C0		30C4		30E1		30D3

KEY C1S OR KEY UNIT 2DH

KEY TOP



APP FIG. 61

LAMP

DESIG	LOC	CODE
2WLL	62E3	24 MI
2WTL	62C3	24 MI
4WTL	62A3	24 MI
LRFT0	62D5	24 MI
LRFT1	62D5	24 MI
LRFT2	62C5	24 MI
LRFT3	62A5	24 MI
LRFT4	62A5	24 MI
LRFT5	62A5	24 MI
LRFU0	62F5	24 MI
LRFU1	62F5	24 MI
LRFU2	62F5	24 MI
LRFU3	62F5	24 MI
LRFU4	62F5	24 MI
LRFU5	62F5	24 MI
LRFU6	62F5	24 MI
LRFU7	62F5	24 MI
LRFU8	62F5	24 MI
LRFU9	62F5	24 MI

DRAWING ISSUE

51D	
53D	
55A	
57A	
59A	
60D	
61A	
62D	
63D	
64A	
65D	
66A	
68A	
70A	LFP
71C	
73D	
75B	
76D	
79A	
83A	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C60

BELL TELEPHONE LABORATORIES INCORPORATED 68

SD-25800-01-C60

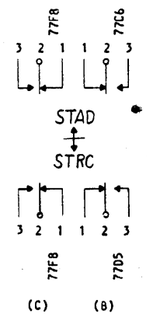
STABILO

APP FIG. 62 (MFR DISC)

RELAY

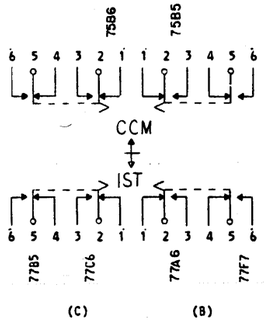
DESIG	AST		ASTR		CCT		STA		CRC	RST													DESIG
CODE	AG21		AF63		AJ39		AF23		AK6														CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					EBM	56B/F7	ER	77D7	BM	77A4													12
11					EBM	65A/E3	M	77D8	BM	-													11
10	M	77C8			EBM	56B/D7	M	56B/D6	BM	77D4													10
9			B	7787	EBM	-			BM	-													9
8	EMB	-	M	7707	EBM	IA/E2	EBM	77C7	BM	-													8
7			B	-	EBM	77C7																	7
6	EMB	77E7	EMB	77E7	EBM	-	EMB	-															6
5			B	-	EBM	-					BM	77D4											5
4	M	-	M	-	EBM	77E7	EBM	-			BM	-											4
3					EBM	-	M	-			BM	-											3
2	M	-			EBM	-	M	-			BM	-											2
1					EBM	-	M	77F9			BM	77F8											1
COIL		7788		77D8		77A8		77C8		77C4		IA/E2											COIL

KEY OR KEY UNIT C1JL 2JP



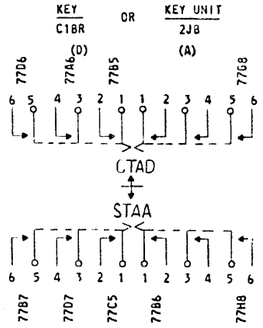
KEY TOP

KEY OR KEY UNIT C1S 2DH



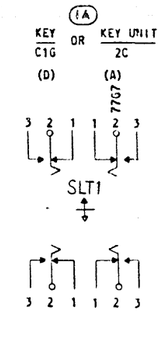
KEY TOP

KEY C18R OR KEY UNIT 2JB



KEY TOP

(1A) KEY C1G OR (1A) KEY UNIT 2C

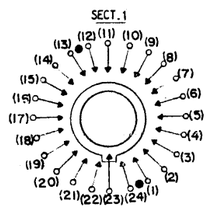


(1A) KEY TOP

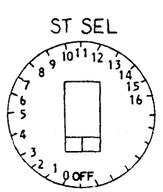
LAMP

DESIG	LOC	CODE
CCT	77A4	2W MI
EC	77C4	2W MI
RC	77A5	2W MI
ST	77D8	2W MI
STL	77E4	2W MI

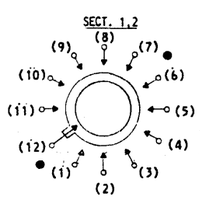
SWITCH ST SEL



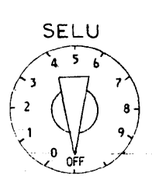
SWITCH TOP



SWITCH SELU



SWITCH TOP



SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	ST SEL	SELU
CODE	KS-13779	KS-14618
LIST	49	39
OPTION	JZ	1A
SECT. NO.		
1	77E6	77F6
2		77G6

51D	DS
52A	GA
57A	
59A	
61A	NJC ASL
67D	MS
DRAWING REFURBISHED WITHOUT CHANGE 2-20-68 SLK	
80D	

ISSUE 988

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C61

BELL TELEPHONE LABORATORIES INCORPORATED 6S

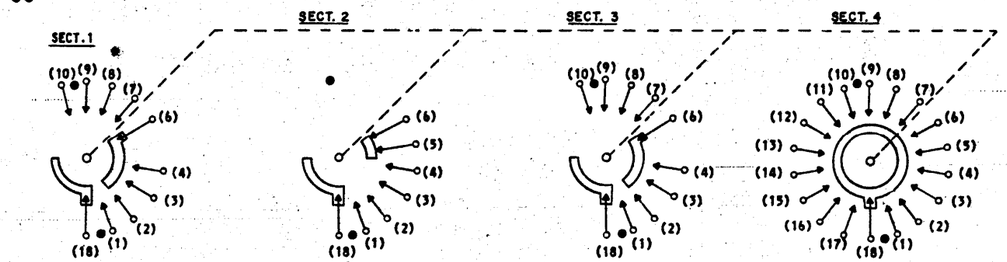
STABILO

APP FIG. 63 (A & M ONLY)

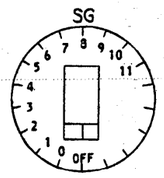
RELAY

DESIG																				
CODE																				
OPTION																				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																				
BOT.																				
COIL																				

SWITCH
SG



SWITCH TOP



SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG			SG
CODE			KS-18721
LIST			12
OPTION			
SECTION NO.	TERM.	CKT	
1	1-4,18	A	448/D3
	6-10	B	448/D3
2	1-4,18	A	448/D3
	5,6	B	3IE5
3	1-4,18	A	70E0
	6-10	B	70E2
4	1-12,16	-	46G4

APP FIG. 64

RELAY

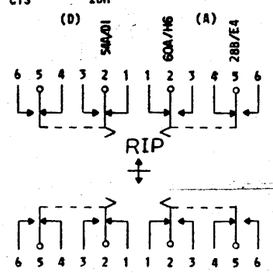
DESIG	ATV																			
CODE	U611																			
OPTION																				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	9,8,7	3M	69A/A8																	
	6,5,4	3M	69B/B1																	
	3,2,1	3M	-																	
BOT.	3,2,1	3M	69A/B7																	
	6,5,4	3M	69A/D8																	
	9,8,7	3M	69A/C7																	
COIL																				

APP FIG. 65 (A&M ONLY)

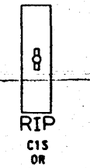
RELAY

DESIG	KTB5			RIP																
CODE	U1172			U1289																
OPTION																				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	10,9	M	54A/D4	10,9	M	54A/B0														
	8,7,6	BM	—	8,7	M	54A/C1														
	5,4,3	BM	28B/E4	6,5,4	BM	-														
	2,1	B	-	3,2,1	BM	-														
BOT.	2,1	M	3081	3,2,1	BM	57B/C5														
	4,3	M	3080	6,5,4	BM	57A/B0														
	6,5	M	-	8,7	M	54A/D6														
	8,7	M	-																	
COIL			20B/B7			54A/B0														

KEY OR KEY UNIT
C1S 20H



KEY TOP



LAMP

DESIG	LOC	CODE
RIP	54A/C6	24 MI

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C62

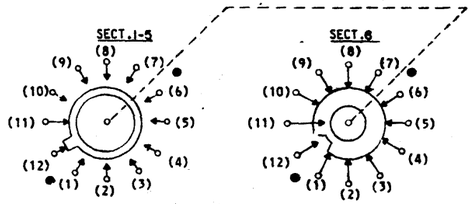
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C62

STABILO

APP FIG. 66 (MFR DISC)

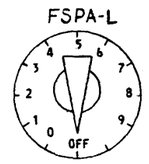
SWITCH
FSPA-L



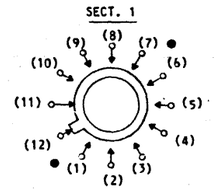
SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	FSPA	FSPB	FSPC	FSPD	FSPE	FSPF	FSPG	FSPH	FSPJ	FSPK	FSPL	SKD
CODE	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618
LIST	54	54	54	54	54	54	54	54	54	54	54	53
SECT.NO												
1	16E0	16E2	16E3	16E3	16E4	16E4	16E5	16E5	16E8	16E8	-	16G4
2	16E0	16E2	16E3	16E3	16E4	16E4	16E5	16E5	16E8	16E8	-	
3	16E0	16E2	16E3	16E3	16E4	16E4	16E5	16E5	16E8	16E8	-	
4	17E0	17E2	17E2	17E3	17E3	17E4	17E5	17E5	17E6	17E7	17E8	
5	17E0	17E2	17E2	17E3	17E3	17E4	17E5	17E5	17E6	17E7	17E8	
6	17E0	17E2	17E2	17E3	17E3	17E4	17E5	17E5	17E6	17E7	17E8	

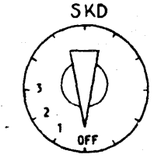
SWITCH TOP
FSPA-L



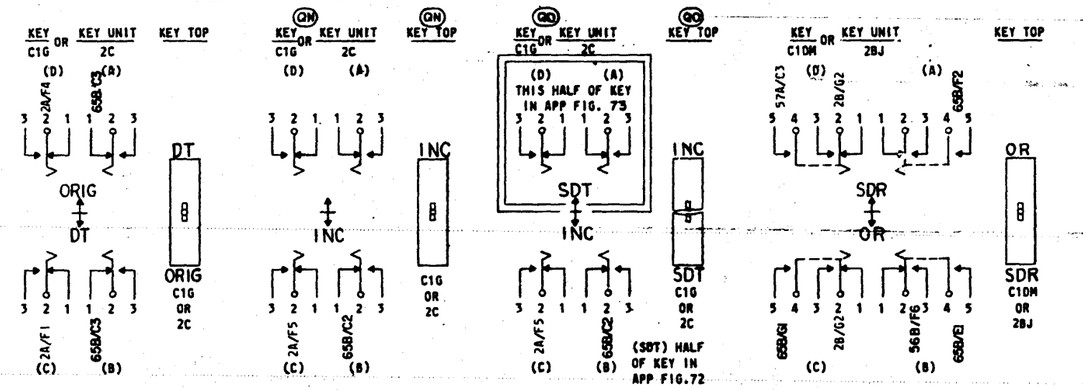
SWITCH
SKD



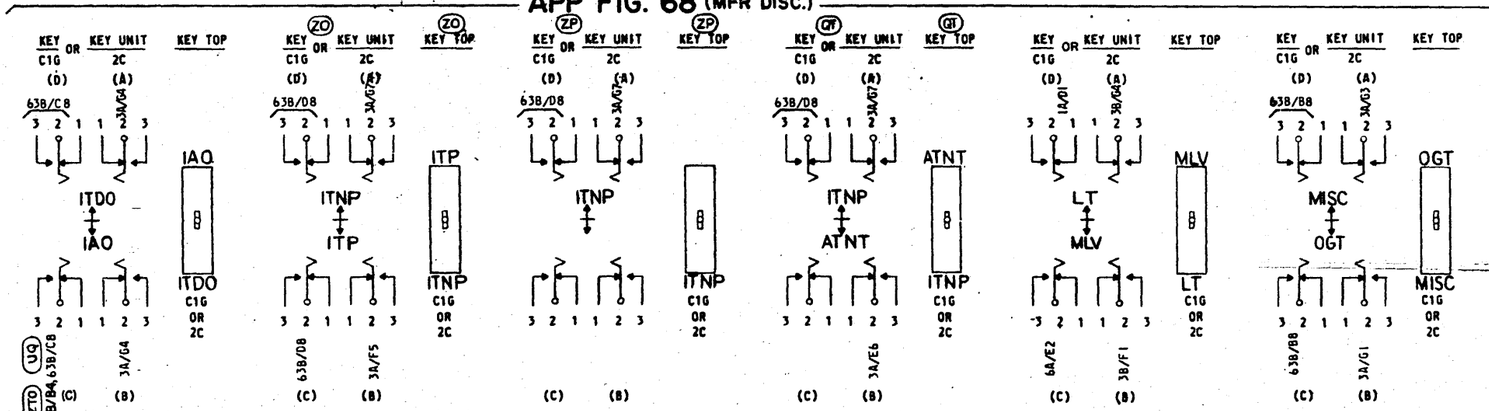
SWITCH TOP
SKD



APP FIG. 67 (MFR DISC.)



APP FIG. 68 (MFR DISC.)



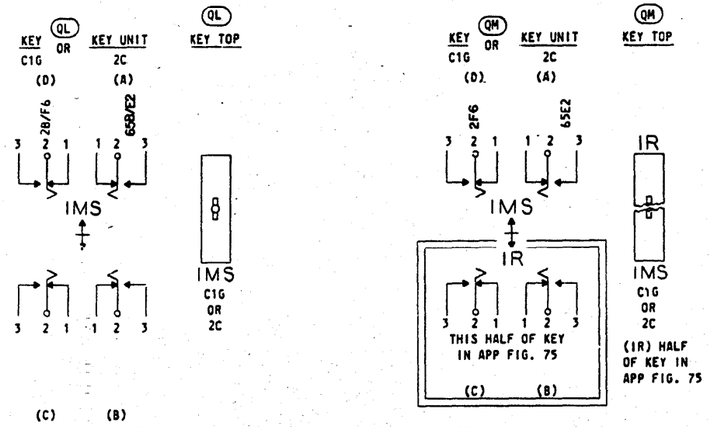
DRAWING ISSUE	
51D	
56D	
60D	
62D	
67D	
74A	
75B	
76D	
80C	

ISSUE 102B

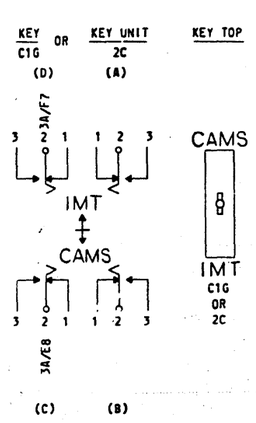
MASTER TEST CONTROL, CIRCUIT (2)
SD-25800-01-C63
BELL TELEPHONE LABORATORIES INCORPORATED
SHEET SIZE 6S

STABILO

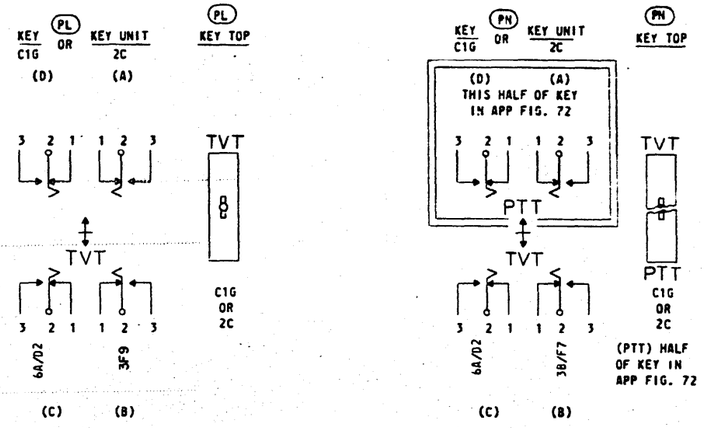
APP FIG. 69 (A&M ONLY)



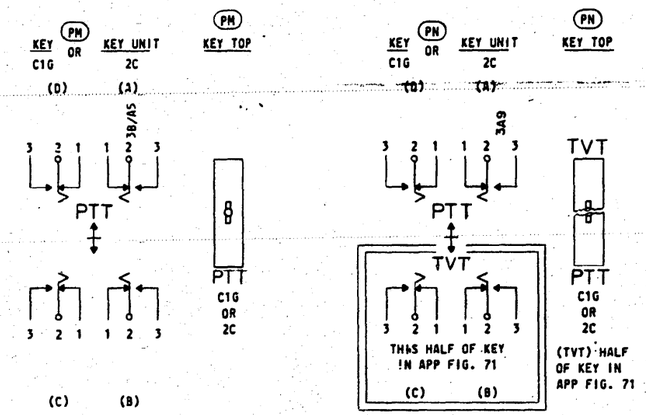
APP FIG. 70 (A&M ONLY)



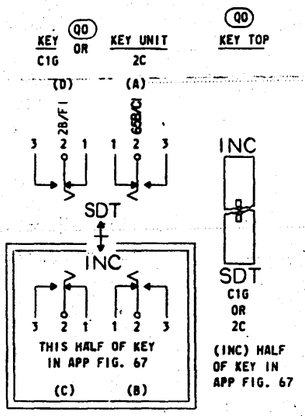
APP FIG. 71 (A&M ONLY)



APP FIG. 72 (A&M ONLY)

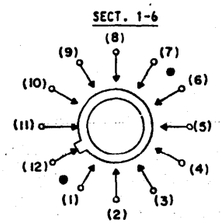


APP FIG. 73 (A&M ONLY)

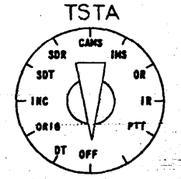


APP FIG. 74

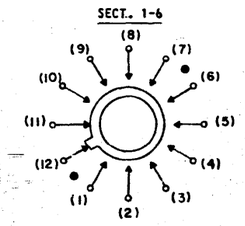
SWITCH TSTA



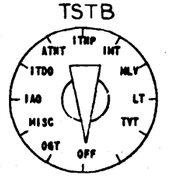
SWITCH TOP



SWITCH TSTB



SWITCH TOP



SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	TSTA		TSTB	
CODE	KS-14618,L51		KS-14618,L51	
OPTION				
SECT NO.	TERM.	LOC	TERM.	LOC
1	1-3,11,12	2A/G1	1-7,11,12	3A/G0
	4-10	2B/H0	8-10	3B/G1
2	4,5, 7-9,11	65B/D0	8,10,11	6A/D2
3	8,11	65B/G0	1-8,10-12	1A/D2
4	8,11	66B/F8	3,11	52B/A4
5		-		-
6		-		-

DRAWING ISSUE

51D	SAA, AMS
62D	PP, A1+, AMS
67D	SLA
70A	LFP
74A	
76D	
80D	

ISSUE 99A

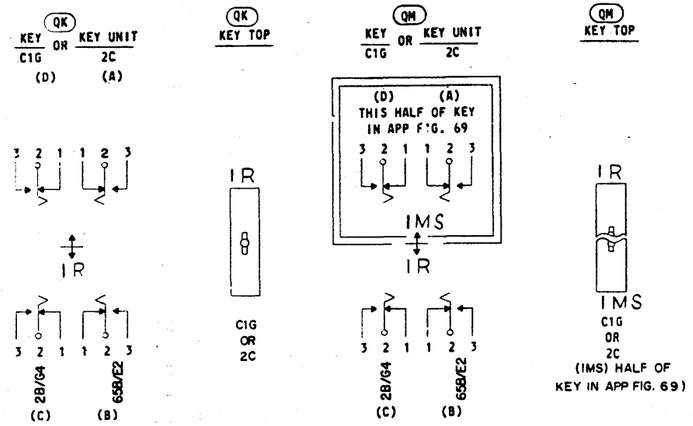
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C64

BELL TELEPHONE LABORATORIES INCORPORATED DWG SIZE 6S

SD-25800-01-C64

STABILO

APP FIG. 75 (A & M ONLY)



APP FIG. 77

RELAY

DESIG	SSC		SAC		TSCT	
CODE	AK4				AF10	
OPTION					ZXZ	
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	97H7			EM	97C5
11	EBM	-				
10	EBM	-			M	9787
9	EMB	97C7				
8	EMB	-			EBM	
7					B	
6					EMB	
5			EMB	-		
4			EMB	97F7	M	97C7
3			EBM	-		
2			EBM	-	M	
1			M	97G7		
COIL		97C7		97F7		97C6

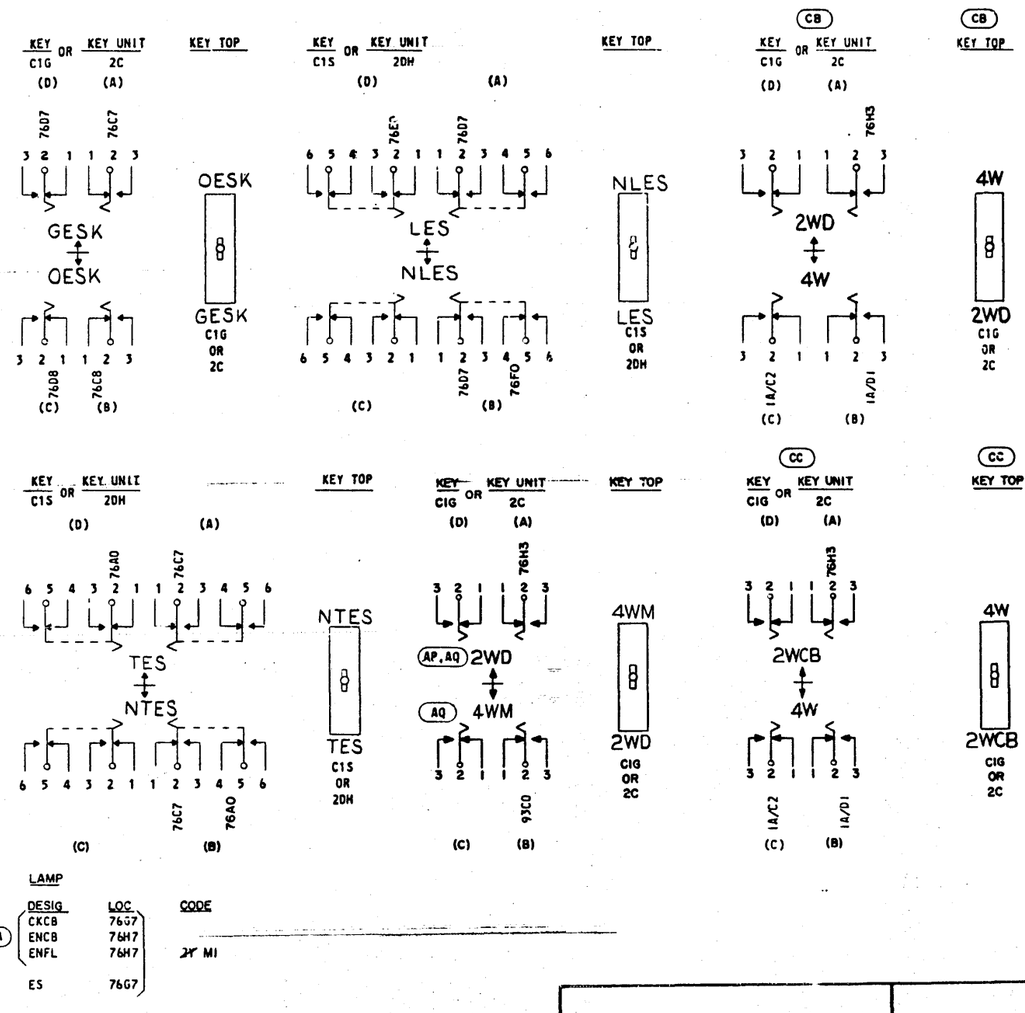
LAMP

OPTION	DESIG	LOC	CODE
	SAC	97G7	2Y MI
	SSC	97G7	2Y MI
ZXZ	TSCT	9787	2Y MI

APP FIG. 76

RELAY

DESIG	ESCK			LLES			TLES			CKCB			ENCB			ENFL					
CODE	U67			U67			U67			U67			U1149			U1149					
OPTION										ZYA			ZYA			ZYA					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP													8,7	M	76G8	8,7	M	76F8			
	7,6	M	7688	7,6	M	7608	7,6	M	76C8	7,6	M	76A8	6,5	M	-	6,5	M	-			
	5,4	M	76G6	5,4	M	-	5,4	M	-	5,4	M	76G6	4,3	M	-	4,3	M	-			
	3,2,1	BM	76E8	3,2,1	BM	53A/B2	3,2,1	BM	53A/C2	3,2,1	BM	-	2,1	M	76H6	2,1	M	76H6			
BOT.	3,2,1	BM	53A/C3	3,2,1	BM	-	3,2,1	BM	-	3,2,1	BM	-	2,1	B	-	2,1	B	-			
	5,4	M	-	5,4	M	-	5,4	M	-	5,4	M	-	5,4,3	BM	-	5,4,3	BM	-			
													7,6	M	-	7,6	M	-			
COIL			7688			7608			76C8			76A8			76G8			76F8			



LAMP

	DESIG	LOC
ZYA	CKCB	76G7
	ENCB	76H7
	ENFL	76H7
	ES	76G7

CODE: 2Y MI

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

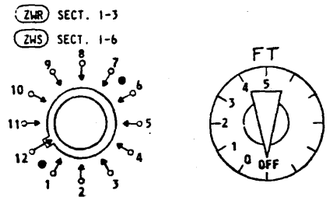
SD-25800-01-C65

6S

APP FIG. 78

SWITCH FT

SWITCH TOP

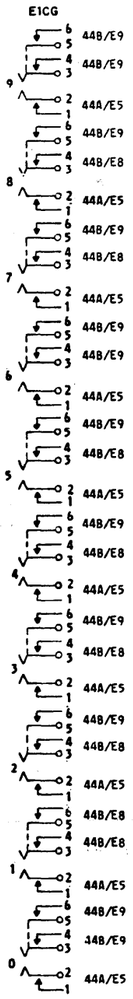


SWITCH

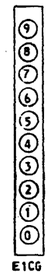
DESIG	FT	FT
CODE	KS-14618	KS-14618
LIST	40	43
OPTION	ZWR	ZWS
SECTION NO.		
1	22A/E1	22A/E1
2	22A/E1	22A/E1
3	22A/E7	22A/E1
4		113G8
5		117F0
6		

APP FIG. 79 (MFR DISC)

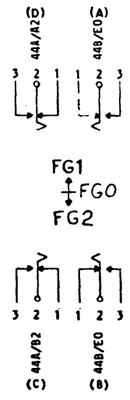
KEY FS



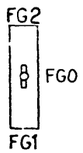
KEY TOP FS



KEY OR KEY UNIT C1G 2C

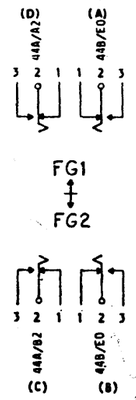


KEY TOP

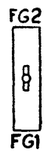


APP FIG. 80

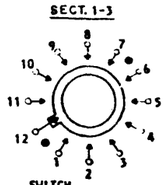
KEY OR KEY UNIT C1G 2C



KEY TOP



SWITCH FS

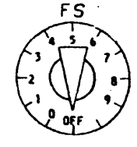


SWITCH

DESIG	FS
CODE	KS-14618
LIST	40
OPTION	
SECTION NO.	
1	44A/D5
2	44B/G7
3	44B/G7

SWITCH SECTIONS SHOWN IN OFF POSITION

SWITCH TOP



DRAWING ISSUE

51D	GAV KCC KEC
53D	CL KPW AMF
71D	CRK
76D	
78D	
83A	

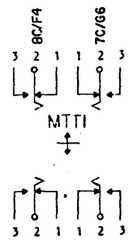
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C66

BELL TELEPHONE LABORATORIES INCORPORATED 65

APP FIG. 81

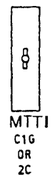
KEY C1G OR KEY UNIT 2C

(D) (A)



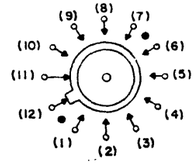
(C) (B)

KEY TOP

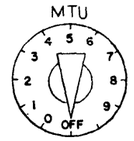


SWITCH
MTU

SECT. 1-6



SWITCH TOP



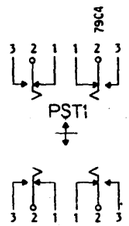
(SWITCH SECTIONS SHOWN IN "OFF" POSITION)

SWITCH	
DESIG	MTU
CODE	KS-14618
LIST	51
OPTION	
SECT. NO.	
1	8C/F4
2	7B/C3
3	7B/G3
4	7C/F5
5	7C/F8
6	8C/F4

APP FIG. 82

(SEE APP FIG. 164) KEY C1G OR (ZOE) KEY UNIT 2C

(D) (A)

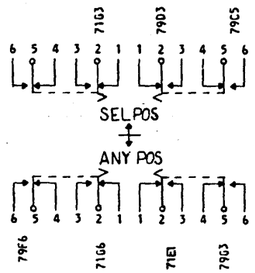


(C) (B)

(ZOE) KEY TOP

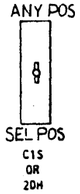
KEY C1S OR KEY UNIT 20H

(D) (A)



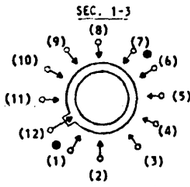
(C) (B)

KEY TOP

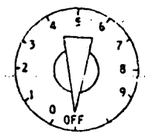


SWITCH
POSU

SEC. 1-3



SWITCH TOP

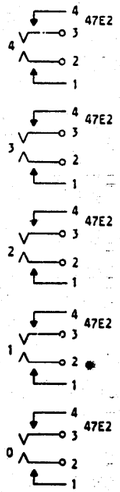


SWITCH

DESIG	POSU
CODE	KS-14618
LIST	40
OPTION	
SECT. NO.	
1	7985
2	7161
3	7985

APP FIG. 83 (MFR DISC.)

KEY
OS
E1DJ



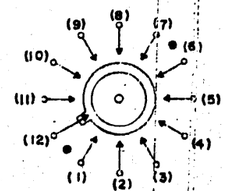
KEY TOP
OS

E1DJ

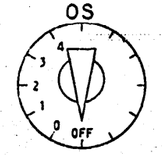
APP FIG. 84

SWITCH
OS

SECT. 1,2



SWITCH TOP



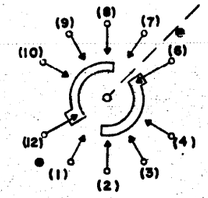
SWITCH SECTIONS SHOWN
IN OFF POSITION

DESIG	OS
CODE	KS-14618
LIST	30
OPTION	
SECT. NO.	
1	47E2
2	47D3

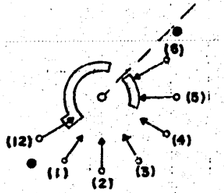
APP FIG. 85

SWITCH
SGU

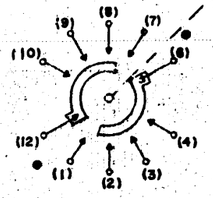
SECT. 1



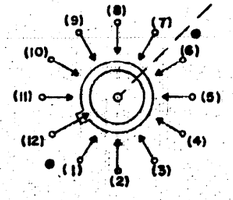
SECT. 2



SECT. 3



SECT. 4,5

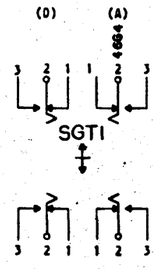


SWITCH TOP

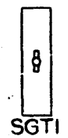
SWITCH SECTIONS SHOWN
IN "OFF" POSITION

DESIG			SGU
CODE			KS-14618
LIST			50
OPTION			
SECT. NO.	TERM.	CKT	
1	1-4, 2	A	448/03
	6-10	B	448/03
2	1-4, 12	A	448/03
	5, 6	B	31E5
3	1-4, 12	A	70E0
	6-10	B	70E1
4	1-12	-	46F4
5	1-12	-	46F4

KEY OR KEY UNIT
C1G OR 2C



KEY TOP



DRAWING ISSUE

51D	SAM W/CO AMO
56D	MS F/A AMP
76D	

76

MASTER TEST CONTROL UNIT ... (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-C68

SD-25800-01-C68

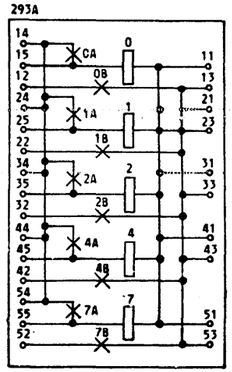
STABILO

APP FIG. 86

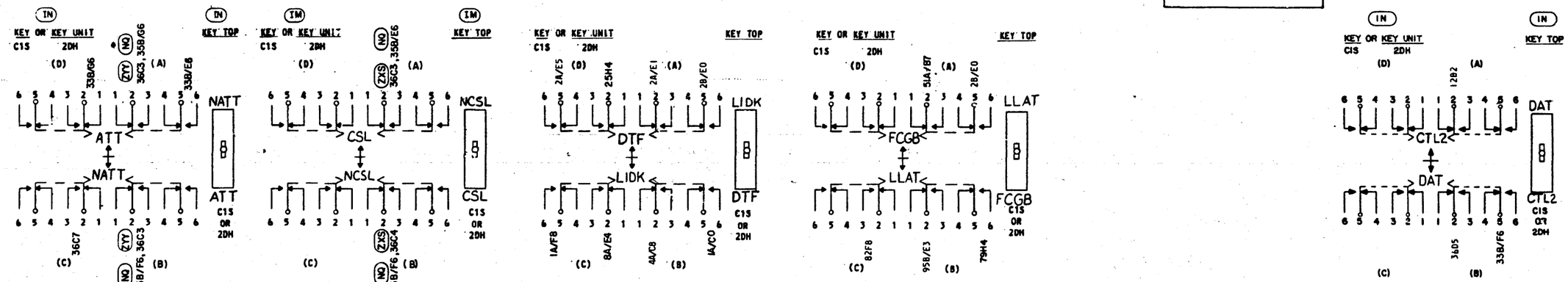
DESIG	CF		DAT		DTF		DTR		NTC3		OTL7		CRIR		DT4		DT5		DTRI		NTH2		TIR		DESIG
CODE	AJ124		AK6				AJ15		AJ1c		AF24		IN AF132		AK6				AJ15		AF152		AJ15		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EMB	-	BM	37A/C0			EBM	2A/D0	EBM	82A6	M	22A/H2	M	268/C3	BM	78G3			EBM	2A/D6	BM	82C8	EBM	-	12
11	M	-	BM	37A/E1			EBM	2B/E0	EBM	82A6	M	22A/H2	M	268/C3	BM	-			EBM	33A/F1	M	82C8	EBM	-	11
10	M	-	BM	-			EBM	26A/H1	EBM	82A5	M	22B/H2	M	268/C3	BM	-			EBM	-	BM	82D8	EBM	-	10
9	BM	-	BM	-			EBM	20B/C2	EBM	82B5	M	22B/H2	M	268/C3	BM	-			EBM	56B/E3	M	82D8	EBM	-	9
8	M	-	BM	-			EMB	2B/A0	EBM	0284	M	20B/E8	BM	-	BM	40F5			EMB	2A/B5	BM	82E8	EMB	-	8
7	BM	-					EBM	6A/G7	EBM	82B4	M	25G5	M	268/C3					EBM	33B/E6	M	82E8	EBM	-	7
6	EMB	-					EMB	74G2	EBM	-	M	23B/F9	BM	-					EMB	3A/C2	BM	-	EMB	-	6
5	BM	-			BM	-	EMB	95A/C5	EBM	-	M	24B/F7	M	268/C1			BM	40F6	EMB	[illegible]	M	-	EMB	56A/D4	5
4	M	-			BM	-	EBM	66B/A5	EBM	-	M	24B/F3	M	268/C1			BM	-	EBM	34G4	BM	-	EBM	-	4
3	BM	26A/G1			BM	-	EBM	9D6	EBM	-	M	-	M	268/C1			BM	-	EBM	26A/A3	M	9D3	EBM	-	3
2	M	25G2			BM	37A/E1	EBM	905	EBM	52B/C8	M	25G2	M	268/C1			BM	-	EBM	20A/H1	BM	9C2	EBM	58B1	2
1	M	27H5			BM	37A/C2	EBM	9H3	EBM	9H3	M	-	M	268/C1			BM	78H3	EBM	33B/C6	M	1B/E9	EBM	56A/A8	1
COIL		25H4		37A/C0		37A/C2		2B/A0		9H5		20B/B2		78B1		76F3		78G3		2A/B5		52B/C9		56A/A4	COIL

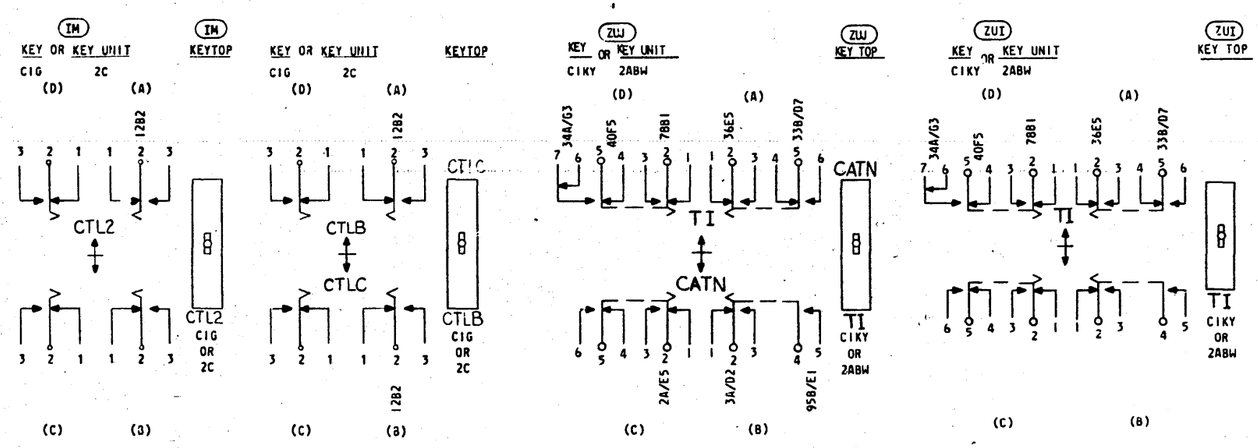
DESIG	KLL		CTL2		OFR		TL5B		TL5C	
CODE	AF132		AF132		AF50		AF132		AF132	
OPTION	IN				RW					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	-	M	148/G7			M	148/G6	M	148/G6
11	M	-	M	148/G7			M	148/G6	M	148/G6
10	M	-	M	148/G7	M	-	M	148/G6	M	148/G6
9	M	-	M	148/G7			M	148/G6	M	148/G6
8	BM	-	BM	-	BM	-	BM	-	BM	-
7	M	-	M	13A/C7			M	13A/C6	M	13A/C6
6	BM	-	BM	-	BM	82F1	BM	-	BM	-
5	M	418/D4	M	288/C1			M	288/C1	M	288/C1
4	M	418/D4	M	148/G7	M	-	M	148/G6	M	148/G6
3	M	418/D4	M	148/G7			M	148/G6	M	148/G6
2	M	418/D4	M	148/G7			M	148/G6	M	148/G6
1	M	418/D4	M	148/G7			M	148/G6	M	148/G6
COIL		20A/B1		12A1		82E2		12A2		12A2

RELAY 293A



		LOCATION	
		COIL	B CONT
IN	[1] CTA0,1,2,4,7	268/G3	26B/F6
	[1] CUO,1,2,4,7	258/G5	26B/G7





LAMP			
	DESIG	LOC	CODE
EI [5]	CTA0,1,2,4,7	26B/F7	2W MI
EI [5]	CUO,1,2,4,7	26B/F7	2W MI
	DAT	37A/D1	2W MI
	DTF	37A/D1	2W MI
	TIR	56A/A8	2W MI

RESISTOR		
DESIG	LOC	CODE
CF	25F2	59H
FCGB	51A/B5	72HA KS-20810,L1A, 14.7kΩ±1%

DRAWING ISSUE	
53D	CL DTU AHG
56D	FRC FRA
57A	PRC AHG AHG PRB AHG
59A	AHG AHG
60D	PRB AHG
61A	AHG AHG
62D	AHG AHG
63D	AHG AHG
64A	AHG AHG
65D	AHG AHG
66A	AHG AHG
67D	AHG
DRAWING RETURBISHED WITHOUT CHANGE 2-20-68 SUK	
70A	CH
71D	AHG
72A	AHG
73D	
74A	
74D	
75D	
79A	
80D	

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C69

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

PART OF APP FIG. 87

RELAY

DESIG	CHK		TTK		FTO		FUO		FT1		FU1		FT2		FU2		FT3		FU4		FTAK		FTBK		DESIG
CODE	AK22				AK6				AK6				AK6				AK6				AK6				CODE
OPTION	FZ																								OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	8A/E4			BM	22A/C3			BM	22A/C3			BM	22A/C3			BM	22A/C3			BM	22A/G5			12
11	EBM	81B0			BM	81A4			BM	81A4			BM	81A5			BM	-			BM	81B5			11
10	EBM	-			BM	-			BM	81A4			BM	81A5			BM	81A5			BM	-			10
9	EMB	-			BM	-			BM	-			BM	81A5			BM	81A5			BM	-			9
8	EMB	8A/D4			BM	-			BM	-			BM	-			BM	-			BM	-			8
7																									7
6																									6
5			EMB				BM	-			BM	-			BM	-			BM	-			BM	-	5
4			EMB				BM	-			BM	-			BM	81A7			BM	81A7			BM	-	4
3			EBM				BM	-			BM	81A7			BM	81A7			BM	81A7			BM	-	3
2			EBM	79H6			BM	81A6			BM	81A7			BM	81A7			BM	81A7			BM	81B4	2
1			EBM	79A4			BM	22B/B5			BM	22B/B5			BM	22B/B5			BM	22B/B5			BM	22A/G5	1
COIL		8A/C4		79A3		22A/C3		22B/B4		22A/C3		22B/B4		22A/C3		22B/B4		22A/C3		22B/B4		22A/G5		2A/G5	COIL

RELAY

DESIG	FUAK		FUBK		HGAK		HGBK		ID		IDST		LIDF		LIDM		LIK1		LIK2		LLO		VFO		DESIG
CODE	AK6				AK6				AF105		AF134		AK6				AJ5		AJ5		AK6				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM	22B/H6			BM	24A/H7					M	1A/G6	BM	81H4			EBM	22A/F5	EBM	22B/H7	BM	4J8/G4			12
11	BM	81B5			BM	81D3					M	80C8	BM	60B/G7			EBM	22A/F6	EBM	23A/H1	BM	81A1			11
10	BM	-			BM	-			M	83A2	EBM	80D6	BM	57A/A4			EBM	22B/G6	EBM	25H2	BM	-			10
9	BM	-			BM	-					B	68/J5	BM	80G4			EBM	22B/G6	EBM	80G5	BM	-			9
8	BM	-			BM	-			EBM	80B4	EBM	-	BM	80F6			EBM	23A/G1	EBM	2586	BM	-			8
7											B	a					EBM	23A/G2	EBM	57H4					7
6									EMB	83H6	EBM	-					EBM	24A/G7	EBM	44/C7					6
5			BM	-			BM	-			B	81F2			BM	80F5	EBM	24A/G8	EBM	80B7			BM	-	5
4			BM	-			BM	-	EBM	80C7	EBM	-			BM	80H4	EBM	25G3	EBM	80F3			BM	-	4
3			BM	-			BM	-							BM	57A/A5	EBM	-	EBM	80G3			BM	-	3
2			BM	81B6			BM	81D3			M	-			BM	60B/F7	EBM	80H4	EBM	57B/C7			BM	81C6	2
1			BM	22B/H6			BM	24A/G8			M	80F5			BM	81E7	EBM	80F5	EBM	20A/H1			BM	25C6	1
COIL		22B/H6		22B/H6		24A/H7		24A/G8		80F4		1A/G8		81D9		81D9		4A/C9		44/C9		4J8/G4		25C6	COIL

ZRU 58/G3
a
ZRW 5A/G8

RELAY

DESIG	LLI		VF1		LL2		VF2		LL4		VF3		LL7		VF4		L8		MC19		R1A		T1		DESIG
CODE	AK6				AK6				AK6				AK6				AF79		AF24		AJ512		AJ12		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM	41B/G4			BM	41B/G4			BM	41B/G4			BM	41B/G4			EMB	-	M	83H7	BM	80G4	EBM	27E7	12
11	BM	81A2			BM	81A2			BM	81A2			BM	-			M	80G4	M	83G7	BM	22B/B5	EBM	27F8	11
10	BM	81A2			BM	81A2			BM	81A2			BM	81A3			EBM	-	M	83G7	BM	23A/B0	EBM	-	10
9	BM	-			BM	81A2			BM	81A2			BM	81A3					M	83F7	BM	24A/D7	EBM	-	9
8	BM	-			BM	-			BM	-			BM	-			EBM	-	M	83F7	BM	2506	EBM	-	8
7																			M	-	BM	22A/D3	EBM	-	7
6																	EMB	-	M	-	BM	8F/F6	EBM	-	6
5			BM	-			BM	-			BM	-			BM	-	-		M	32A6	BM	81F2	EBM	-	5
4			BM	-			BM	-			BM	-			BM	-	EBM	80C5	M	78F2	BM	80C7	EBM	7C/H5	4
3			BM	81C6			BM	81C7			BM	81C7			BM	81C7			M	60B/G7	BM	83E9	EBM	27B3	3
2			BM	81C6			BM	81C7			BM	81C7			BM	81C7	EBM	-	M	338/F6	BM	80F3	EBM	26A/G2	2
1			BM	25C6			BM	25C6			BM	25C6			BM	25C6	M	8088	M	338/E6	BM	81A0	EBM	7A/H6	1
COIL		41B/G4		25C6		41B/G4		25C6		41B/G4		25C6		41B/G4		25C6		80C8		11F6		80G4		81F5	COIL

RELAY

DESIG	TRIC		LITR		VF1K		IDT		VG0		FU7		VG1		HG0		VG2		HG1		VG4		HG2		DESIG
CODE	AK8				AK6				AK6				AK6				AK6				AK6				CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	80G6			BM	25H2			BM	23A/B0			BM	23A/B0			BM	23A/B0			BM	23A/B0			12
11	M	81F2			BM	81D5			BM	81C0			BM	81C1			BM	81C1			BM	81C1			11
10	EBM	-			BM	-			BM	-			BM	81C1			BM	81C1			BM	81C1			10
9	EMB	-			BM	-			BM	-			BM	-			BM	81C1			BM	81C1			9
8	EM	-			BM	-			BM	-			BM	-			BM	-			BM	-			8
7																									7
6																									6
5			EM	a			BM	-			BM	-			BM	-			BM	-			BM	-	5
4			B	-			BM	-			M	81A8			BM	-			BM	-			BM	81C4	4
3			EBM	20A/C1			BM	-			M	81A8			BM	-			BM	81C4			BM	81C4	3
2			EBM	57B/G4			BM	81A0			BM	-			BM	81C3			BM	81C4			BM	81C4	2
1			M	68/D5			BM	80H4			BM	22B/B5			BM	24A/D7			BM	24A/D7			BM	24A/D7	1
COIL		80G6		57A/A5		25H3		80H4		23A/B0		22B/B4		23A/B0		24A/C6		23A/B0		24A/C6		23A/B0		24A/C6	COIL

ZRU 58/H3
a
ZRW 5A/G9

RELAY

DESIG	VG7		HG4		VG10		HG7		VGAK		VGBK		XHG		XHGA		XI		XL		CATN		DT7		DESIG
CODE	AK6				AK6				AK6				AK6				AK6				AJ15		AF114		CODE
OPTION																					ZUK		ZVK		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM	23A/B0			BM	23A/B0			BM	23A/H1			BM	83A9			BM	83D9			EBM	2A/C6			12
11	BM	81C2			BM	-			BM	81D0			BM	81D8			BM	81D8			EBM				11
10	BM	81C2			BM	81C2			BM	-			BM	83G6			BM	83H6			EBM		M	78D1	10
9	BM	81C2			BM	81C2			BM	-			BM	-			BM	-			EBM	2A/E6			9
8	BM	-			BM	-			BM	-			BM	-			BM	-			EMB		BM		8
7																					EBM				7
6																					EMB	3A/D2	BM		6
5			BM	-			BM	-			BM	-			BM	-			BM	-	EMB				5
4			BM	81C5			BM	81C5			BM	-			BM	-			BM	-	EBM		M	78F3	4
3			BM	81C5			BM	81C5			BM	-			BM	83F6			BM	83G6	EBM				3
2			BM	81C5			BM	-			BM	81D0			BM	81D8			BM	81D8	EBM	3A/D2	B		2
1			BM	24A/D7			BM	24A/D7			BM	24A/H2			BM	8389			BM	83C9	EBM				1
COIL		23A/B0		24A/C6		23A/C6		24A/C6		23A/H1		23A/H2		83A9		8389		83D9		83C9		3A/B2		78F3	COIL

RELAY

DESIG	TTA		LLAK		LLBK		LIK3	
CODE	AF114		AK6				AJ5	
OPTION	FY		FZ					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			BM	41B/D0			EBM	-
11			BM	81B0			EBM	8308
10	M	79A4	BM	-			EBM	8388
9			BM	-			EBM	83C8
8	BM	-	BM	-			EBM	83E8
7							EBM	41B/E0
6	BM	-					EBM	41B/D0
5					BM	-	EBM	41B/F4
4	M	-			BM	-	EBM	41B/F4
3					BM	-	EBM	41B/F4
2	B	79H6			BM	81B1	EBM	41B/F4
1					BM	41B/E0	EBM	41B/F4
COIL		79A3		41B/D0		41B/E0		4A/C9

RELAY

DESIG	KLI	
CODE	AJ202	
OPTION		
24	22A/C3	
23	22A/C3	
22	22A/C3	
21	22A/C3	
20	22B/C4	
19	22B/C4	
18	22B/C4	
17	22B/C4	
16	22B/C4	
15	23A/C0	
14	23A/C0	
13	23A/C0	
12	23A/C0	
11	23A/C0	
10	23A/C0	
9	24A/C5	
8	24A/C5	
7	24A/C5	
6	24A/C5	
5	24A/C5	
4	2586	
3	2586	
2	2586	
1	2586	
COIL	80A8	

DRAWING ISSUE

63D	CLM KM AND
36D	PH KM AND
57A	PH KM AND
49A	RLB AND
60D	RLB AND
61A	NJC ASL AND
63D	MD AND
64A	MD AND REK NJC AND
65D	PH
67D	PH
DRAWING REFURBISHED WITHOUT CHANGE 2-20-68	ESM
70A	CH
71D	ESM
73D	
74A	
75B	
76D	
79A	
80D	

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C70

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-C70

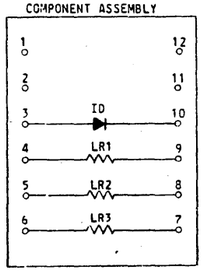
E-7472-A-2(12-67)

PART OF APP FIG. 87

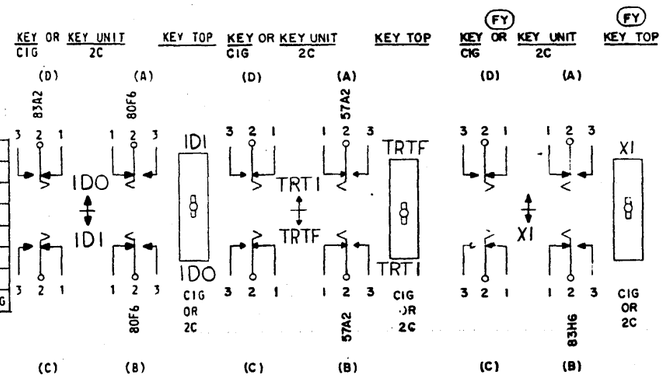
CAPACITOR

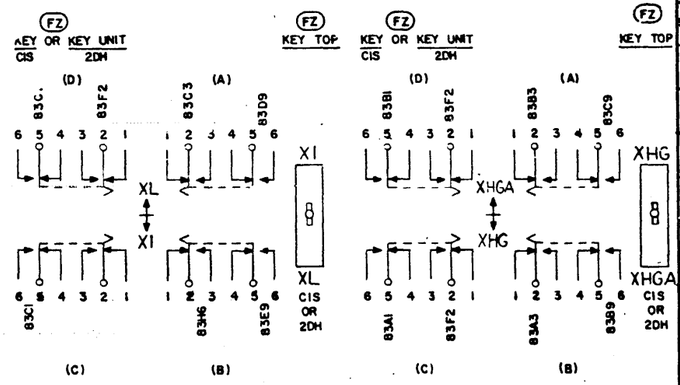
DESIG	LOC	CODE
LR	80C6	439QA

COMPONENT ASSEMBLY



DESIG	CAO		
CODE	ED-94823-51,G130		
OPTION			
COMPONENT	DESIG	LOC	CODE
DIODE	ID	8085	446K
RESISTOR	LR1	8086	KS-19150,L1,0.1 MEG
	LR2	8087	KS-19150,L1,1000
	LR3	8086	1N4E,KS-20289,L6C,3.92 MEG





LAMP

	DESIG	LOC	CODE
	IDST	80G6	13J (RES)
	LIDF	81F8	2Y MI
	LIDM	81E8	2Y MI
	LLAT	79A5	2Y MI
(FZ)	XHG	83A1	13J(RES)
	LR	8088	2Y MI
(ZVK)	DT7	7801	2Y MI

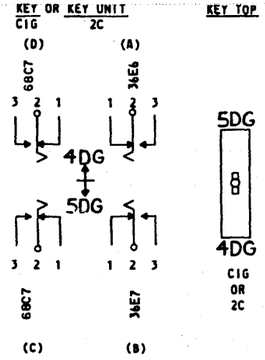
RESISTOR

	DESIG	LOC	CODE
	LR	8085	18EY
(FZ)	XIL	8381	188U

TUBE,ELECTRON

DESIG	LOC	CODE
LR	8086	313CC

APP FIG. 88 (MFR DISC.)



APP FIG. 89

RELAY

DESIG	XM			XMA																
CODE	U1409			U142																
OPTION																				
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				6,5	M	-														
	4,3	M	-	4,3	B	-														
	2,1	M	658/B6	2,1	B	658/C7														
BOT.	2,1	M	658/C6	3,2,1	BM	-														
				5,4	M	658/A2														
COIL			658/B7			658/C6														

LAMP

DESIG	LOC	CODE
XM	658/A3	2Y MI

ISSUE 100B

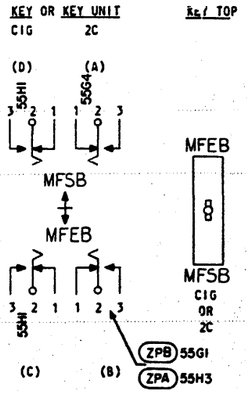
MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-C71

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

APP FIG. 90

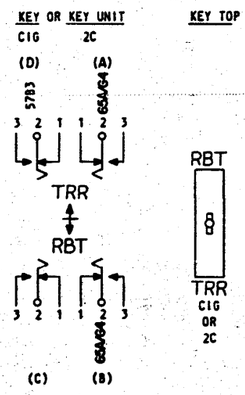
RELAY

DESIG	LFT0		LFT1		LFT2		LFT3		LFT4		LFT5		PLL		STPA		–								DESIG
CODE	AJ12		AJ12		AJ12		AJ12		AJ12		AJ12		AF112		AK30										CODE
OPTION															ZPB										OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	–	EBM	–	EBM	–	EBM	–	EBM	–	EBM	–	M	55G2	M										12
11	EBM	–	EBM	–	EBM	–	EBM	–	EBM	–	EBM	–	M	55E7	EBM	55H2									11
10	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	M	55E7	EBM										10
9	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	M	55E7	EMB	55G3									9
8	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	EBM	22A/G7	EMB										8
7	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4													7
6	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	EBM	22B/G7											6
5	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4					EMB								5
4	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	EBM				EMB								4
3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	M	55E7			EBM								3
2	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	M	55E7			EBM								2
1	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H3	EBM	55H4	M	55E7			M								1
COIL		55E7		55E7		55E7		55E7		55E7		55E7		55H1		55G3									COIL

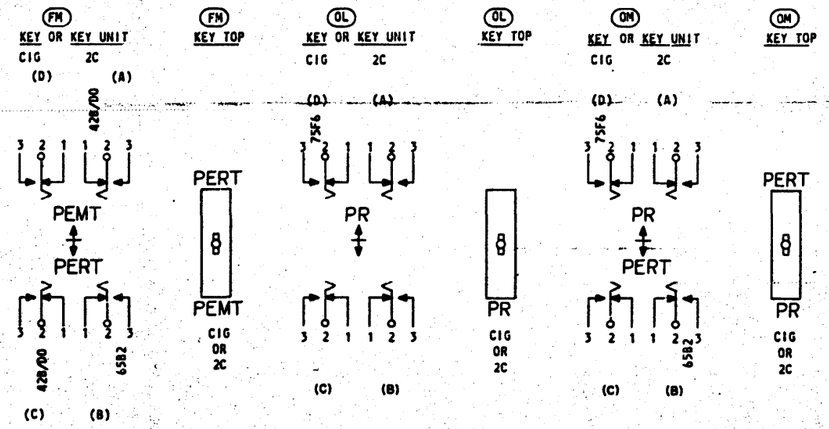


LAMP DESIG	LOC	CODE
MPP	55H3	13J(RES)
ZPB STP	55H2	24 MI

APP FIG. 91



APP FIG. 92 (MFR DISC)



APP FIG. 93

RELAY

DESIG	KACN		
CODE	AJ202		
OPTION			
24	–		
23	–		
22	–		
21	–		
20	–		
19	–		
18	–		
17	–		
16	–		
15	21C4		
14	21D4		
13	21D4		
12	21D4		
11	21D4		
10	21D3		
9	21D3		
8	21D3		
7	21D3		
6	21D2		
5	21D2		
4	21D2		
3	21D2		
2	21D1		
1	21D1		
COIL	20A/80		

DRAWING ISSUE	
56D	LF
57A	LF
58A	
61A	
62D	
67D	
71D	
73D	
80D	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C72

BELL TELEPHONE LABORATORIES INCORPORATED 65

STABLO

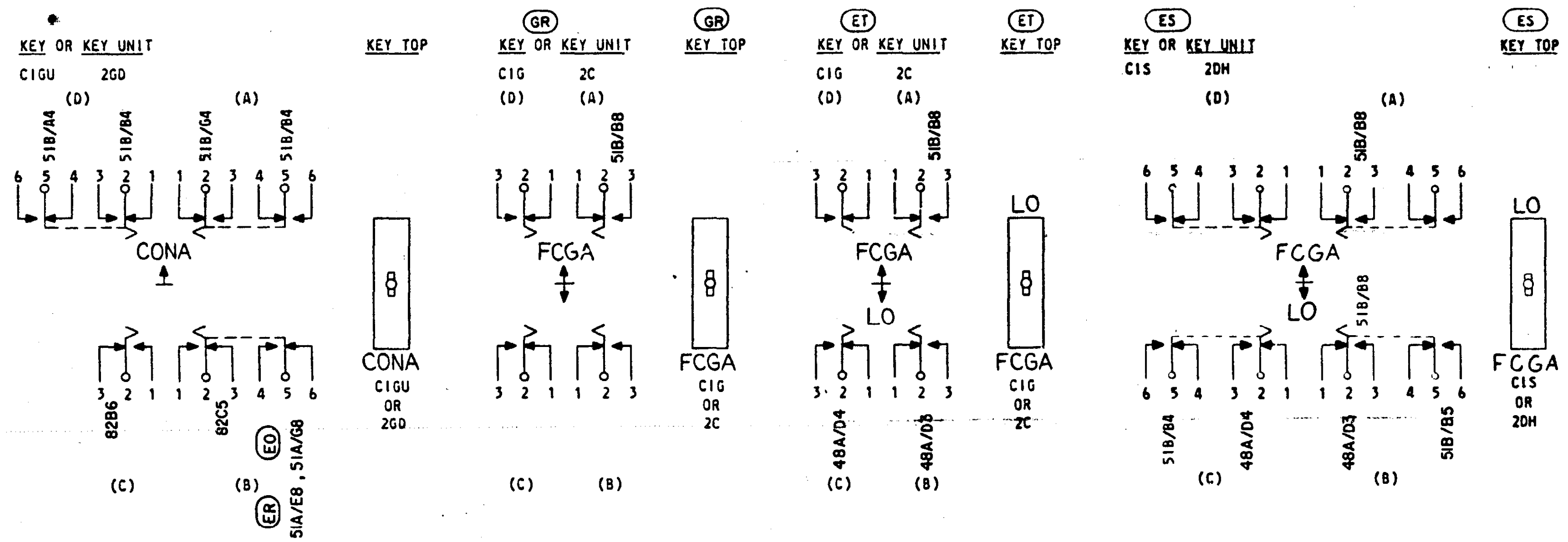
APP FIG. 94

RELAY

DESIG	4WE			MC12		
CODE	U177			U81		
OPTION	EU			EU		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP				12,11	M	-
				10,9	M	-
				8,7	M	-
	9,8,7	BM	5B/E2	6,5	M	-
	6,5,4	BM	51B/G4	4,3	M	51B/B8
	3,2,1	BM	51B/G5	2,1	M	51B/A8
BOT.	3,2,1	BM	51B/C5	2,1	M	32C2
	6,5,4	BM	51B/B4	4,3	M	75B6
	9,8,7	BM	51B/C2	6,5	M	-
				8,7	M	-
				10,9	M	11C5
				12,11	M	-
COIL			74F2			11C6

RELAY

DESIG	4WE		MC12	
CODE	AJ39		AF24	
OPTION	EV		EV	
	CONT ARR	LOC	CONT ARR	LOC
12	EBM	-	M	51B/A6
11	EBM	-	M	51B/B7
10	EBM	-	M	51B/A8
9	EBM	-	M	51B/B8
8	EBM	-	M	32C2
7	EBM		M	51A/C6
6	EBM	51B/C0	M	75B6
5	EBM	51B/C2	M	-
4	EBM	51B/B4	M	-
3	EBM	51B/G4	M	-
2	EBM	51B/G5	M	-
1	EBM	51B/C5	M	-
COIL		74F2		11C6



LAMP

DESIG	LOC	CODE
TCTA	51A/G9	2Y MI

RESISTOR

OPT	DESIG	LOC	CODE
	CT	51B/B3	~~T07A, 90kΩ~~, KS-20810, L1A, 89.8kΩ±1%
	CTA	51B/A3	~~T07A, 500~~, KS-20810; L1A, 499±1%
	FCGA	51B/B8	~~T07A~~, KS-20810, L1A, 28kΩ±1%

DRAWING ISSUE: 57A, 58D, 59A, 61A, 65D, 73D, 78D, 80D

ISSUE 100B

MASTER TEST CONTROL CIRCUIT ②

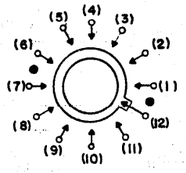
SD-25800-01-C73

BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 63
PRINTED IN U.S.A.

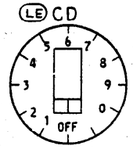
APP FIG. 95 (MFR DISC.)

SWITCH (LE) CD

SECT. 1-4

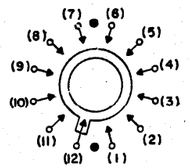


SWITCH TOP

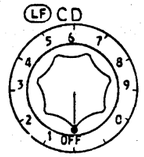


SWITCH (LF) CD

SECT. 1-4

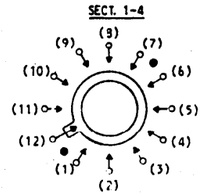


SWITCH TOP

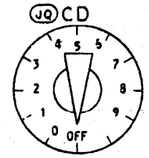


SWITCH (JQ) CD

SECT. 1-4

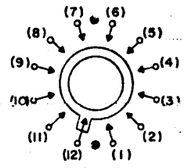


SWITCH TOP

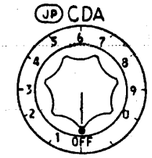


SWITCH (JP) CDA

SECT. 1-4

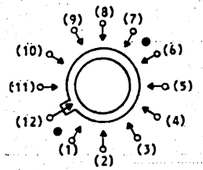


SWITCH TOP

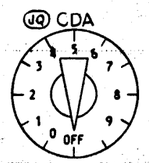


SWITCH (JQ) CDA

SECT. 1, 2



SWITCH TOP



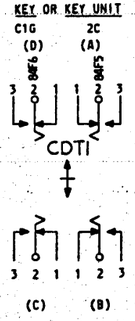
SWITCH

SWITCH SECTION SHOWN IN "OFF" POSITION

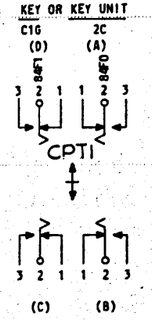
DESIG	CD	CD	CD	CDA	CDA
CODE	KS-13633	KS-14618	KS-14618	KS-14618	KS-14618
LIST	64	5	41	5	39
OPTION	LE	LF	JQ	JP	JQ
SECT NO.					
1	84E3	84E3	84E3	84D7	84D7
2	84E3	84E3	84E3	84D7	84D7
3	84D6	84D6	84D6	–	
4	84D6	84D6	84D6	–	

APP FIG. 96 (MFR DISC.)

KEY OR KEY UNIT C1G (D) 2C (A) — KEYTOP

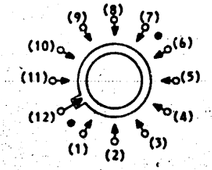


KEY OR KEY UNIT C1G (D) 2C (A) — KEY TOP

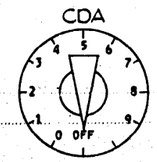


SWITCH CDA

SECT. 1, 2

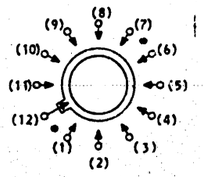


SWITCH TOP

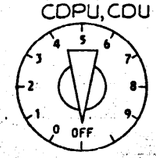


SWITCH CDPU, CDU

SECT. 1-6



SWITCH TOP



SWITCH

DESIG	CDA	CDPU	CDU
CODE	KS-14618	KS-14618	KS-14618
LIST	39	43	43
OPTION			
SECT. NO.			
1	84D7	84E0	84D6
2	84D7	84E0	84D6
3		84E2	84D6
4		84E2	84D6
5		–	84D8
6		–	84D8

DRAWING ISSUE

58D	MS
58D	MS
63D	MS AP

63

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C74

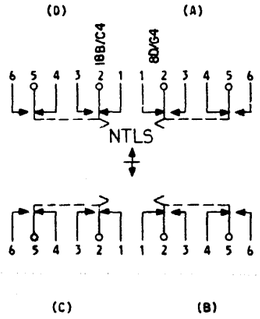
BELL TELEPHONE LABORATORIES INCORPORATED 6S

APP FIG. 97

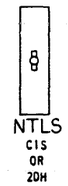
RELAY

DESIG	MC16																	
CODE	U1391																	
OPTION																		
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	6,5	M	63B/B2																		
	4,3	M	62B/E4																		
	2,1	M	62B/B4																		
BOT.	2,1	M	8D/H7																		
	4,3	M	8D/D4																		
	6,5	M	8D/E5																		
COIL			11G3																		

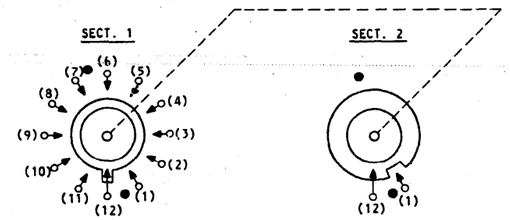
KEY OR CIS — KEY UNIT 2DH



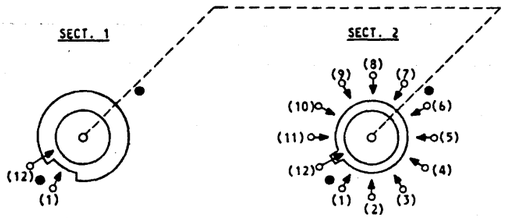
KEY TOP



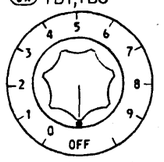
SWITCH
(JX) TBT,TBU



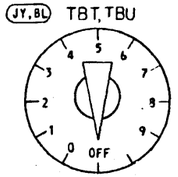
SWITCH
(JY) TBT,TBU



SWITCH TOP
(JX) TBT,TBU



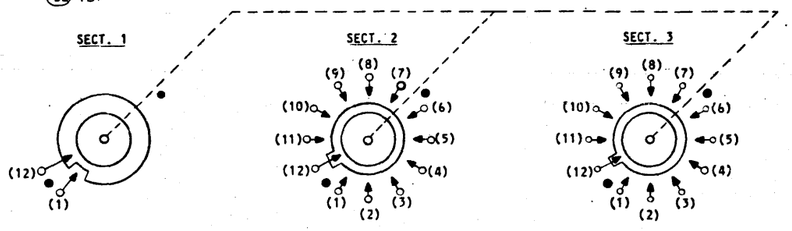
SWITCH TOP
(JY,BL) TBT,TBU



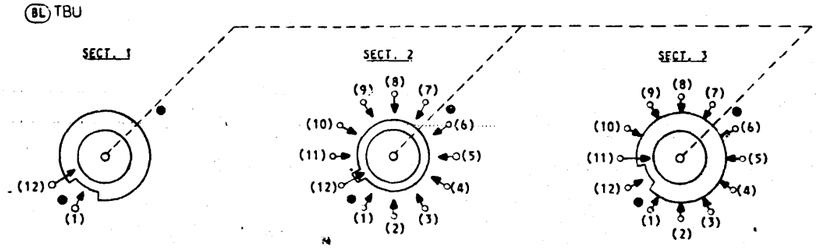
SWITCH SECTIONS SHOWN IN OFF POSITION

DESIG	TBT	TBT	TBT	TBU	TBU	TBU
CODE	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618
LIST	30	44	46	30	44	64
OPTION	JX	JY	BL	JX	JY	BL
SECTION NO.						
1	62B/B5	11F1	11F1	62B/E5	11F2	11F2
2	11F1	62B/B5	62B6	11F2	62B/E5	62C6
3			91H2			91F2

SWITCH
(BL) TBT



SWITCH
(BL) TBU



DRAWING ISSUE

57A	LF, NTL, AM
58D	UB, AM, KL, AS
61A	KL, AS, AM
63D	UB, KL, AM
76D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
SD-25800-01-C75
65

PART OF APP FIG. 98 (MFR DISC.)

RELAY

DESIG	AF		ARL		KSK		KSK1		LP0		LP1		LP2		FD		MC20		PR0		PRE		SK1		DESIG
CODE	AK6				AJ12		AJ504		AK6				AK6				AF24		AK6				AJ15		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM	87G4			EBM	8D/F3			BM	87G3			BM	87H3			M	88A1	BM	87B2			EBM	88A8	12
11	BM	87G4			EBM	87G4	RM	8794	BM				BM				M	88A1	BM				EBM	86F0	11
10	BM	87B4			EBM	87G4	M	88A3	BM				BM				M	8881	BM				EBM	88C1	10
9	BM	85D3			EBM	87G4	BM	87B4	BM				BM				M	88B1	BM				EBM	87B3	9
8	BM	85D3			EBM	88A3			BM	87E0			BM	87G0			M	88C1	BM	87C0			EMB	86E3	8
7					EBM		BM	8704									M	88C1					EBM	87D3	7
6					EBM	88/E0	B										M	45A5					EMB	86E2	6
5			BM	85E3	EBM		BM	87E4			BM	87F0			BM		M	88G1			BM	87D0	EMB	87C3	5
4			BM		EBM	57B/E5	M				BM				BM		M	88H1			BM		EBM	88C4	4
3			BM		EBM		BM	87F4			BM				BM	87F4	M	88F4			BM		EBM	88C4	3
2			BM		EBM	88/D1	M				BM				BM	87E4	M	86C7			BM		EBM	86A2	2
1			BM	85D3	EBM	86C6	BM	88E8			BM	87G3			BM	87C4	M	86A7			BM	87F2	EBM	86A2	1
COIL		85B5		85D3		86C6		86F9		87G3		87G3		87H3		378/F1		11C3		87B2		87F2		86E4	COIL

RELAY

DESIG	SK2		SK3		SK4		SK5		SKA0		SKAL		SKTK		SKB0		SKCA		SKCK		SKF		SKFP		DESIG
CODE	AJ15		AJ15		AJ15		AJ15		AJ15		AK6				AJ15		AF17		AF532		AF92		AF48		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	88A8	EBM	88A8	EBM	8888	EBM	8888	EBM	88C8	BM	85A3			EBM	88C8			M	88A4	EM	89E4	M	4586	12
11	EBM	86E0	EBM	86D0	EBM	86C0	EBM	86C0	EBM	86G0	BM	1182			EBM	86G0			M	88G2	B				11
10	EBM	8881	EBM	8881	EBM	88A1	EBM		EBM	88C1	BM	88A3			EBM	88D1			M	8885	M	88A8	BM		10
9	EBM	8783	EBM	8783	EBM	8783	EBM		EBM	87B3	BM	FIC7			EBM	8783							B		9
8	EMB	8602	EMB	86C2	EMB	8682	EMB	86B3	EMB	86F3	BM	88/E1			EMB	86G3	EBM	88E7	EBM	88D7	EBM		BM		8
7	EBM	8703	EBM	87D3	EBM		EBM		EBM	87E3					EBM				B	88C8	B	88E9	B		7
6	EMB	8602	EMB	86C2	EMB	86B2	EMB		EMB	86E2					EMB	86F2	EMB	8681	EBM	88E8	EMB		BM		6
5	EMB	87F3	EMB	87F3	EMB		EMB		EMB	87F3			BM	88/E0	EMB								B		5
4	EBM	8884	EBM	8884	EBM	88A2	EBM		EBM	88C4			BM		EBM	88C4			EBM		FBM		BM	88A4	4
3	EBM	8884	EBM	8884	EBM	8884	EBM	88A1	EBM	87D3			BM		EBM	88C4							B		3
2	EBM	86A2	EBM	86A2	EBM	86A2	EBM		EBM	86A3			BM	88F3	EBM	86A3			M	88D3	M	4587	M	88B3	2
1	EBM	86A2	EBM	86A2	EBM	86A2	EBM	86A1	EBM	86A3			BM	11C2	EBM	86A3			M	88A6	M	578/G5	B	88D8	1
COIL		8604		86C4		86B4		86A4		86F4		85H1		85H1		86G4		88A7		88A6		88E9		45A6	COIL

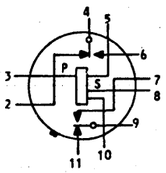
RELAY

DESIG	SKFT		SKS		XPTL		XTG		XSK		XSKA														DESIG
CODE	AJ52		AJ15		AK22				AF103		AF67														CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM		EBM	88H2																			12
11			EBM		EBM																				11
10	M	88A2	EBM		EBM	88A5																			10
9			EBM		EMB	88B8																			9
8	EMB	88E3	EMB	86H3	EMB	88A4			M	86D5	EBM	86D7													8
7			EBM	88E8																					7
6	EMB		EMB	86G2					M	86F8	EMB														6
5			EMB	86G8			EMB	88A4																	5
4	EBM	88D8	EBM	57B/D5			EMB	88A8	M		EBM	86G8													4
3			EBM				EBM	88A5																	3
2	M		EBM				EBM																		2
1			EBM	86A3			EBM	88G2																	1
COIL		88E3		86H4		88H2		88G2		86D6		86F9													COIL

RELAY

DESIG																									DESIG
CODE																									CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																									12
11																									11
10																									10
9																									9
8																									8
7																									7
6																									6
5																									5
4																									4
3																									3
2																									2
1																									1
COIL																									COIL

RELAY

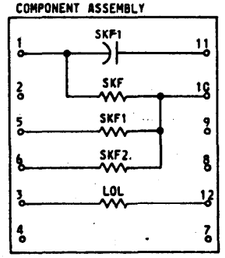


DESIG	SKFD
CODE	3218
OPTION	
11	88E4
10	88D5
9	88E4
8	88D5
7	88E4
6	88E4
5	88D5
4	88E4
3	88D5
2	
1	

CAPACITOR

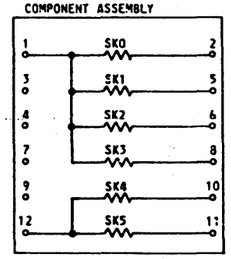
DESIG	LOC	CODE
SKF	88E7	439QA

COMPONENT ASSEMBLY



DESIG	CAO		
CODE	ED-94823-()G291		
OPTION			
COMPONENT	DESIG	LOC	CODE
CAPACITOR	SKF1	8806	KS-13365,L8 OR L34,0.001
RESISTOR	SKF	88D7	22HA,KS-20810,L1A,60.4 kΩ
	SKF1	88D7	KS-19150,L1,0.1MEG
	SKF2	88D7	KS-19150,L1 1K
	LOL	54B/B4	22HA,KS-20810,L1A,4070±1%

COMPONENT ASSEMBLY



DESIG	SK		
CODE	ED-94823-()G426		
OPTION			
COMPONENT	DESIG	LOC	CODE
RESISTOR	SK0	88D2	1470,.825±1%
	SK1	88C2	1470,.825±1%
	SK2	88B2	1470,.825±1%
	SK3	88B2	1470,.825±1%
	SK4	88B2	1470,.825±1%
	SK5	88A2	1470,.825±1%

DRAWING ISSUE		
61A	WS, AS1, BBB	CB
64A	SSI, AM, AP	CB
650	WN, AX, AMD	A
690	LP	CS
710	ES	CB
758		CB

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C76A

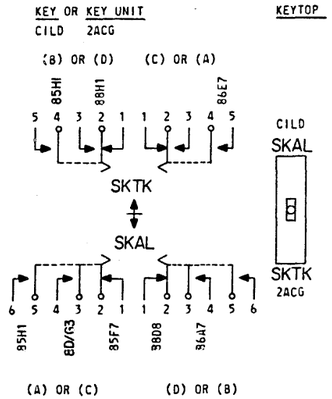
BELL TELEPHONE LABORATORIES INCORPORATED 6S

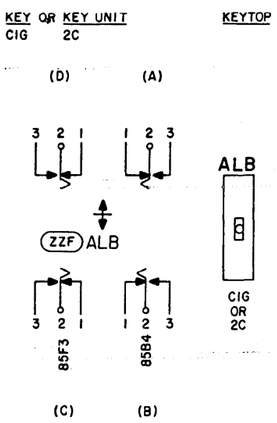
SD-25800-01-C76A

HIGGINS 4465

E-7472-A-E(12-62)

PART OF APP FIG. 98 (MFR DISC)





LAMP DESIG	LOC	CODE
ARL	85E3	2¢ MI
LPO	87E1	2¢ MI
LP1	87F1	2¢ MI
LP2	87G1	2¢ MI
SK1	88A9	2¢ MI
SK2	88A9	2¢ MI
SK3	88A9	2¢ MI
SK4	88B9	2¢ MI
SK5	88B9	2¢ MI
SKAO	88B9	2¢ MI
SKAL	88B/A3	13J (RES)
SKBO	88C9	2¢ MI
SKFP	88C9	2¢ MI
SKFT	88D9	2¢ MI
SKS	86G9	2¢ MI
TPO	87C1	2¢ MI
TP1	87C1	2¢ MI
TP2	87D1	2¢ MI
XSK	86G9	2¢ MI

NETWORK DESIG	LOC	CODE
SKCA	88A7	185A
SKCK	88A6	185A
SKFP	45A6	185A
SKFT	88F4	185A

RESISTOR DESIG	LOC	CODE
AFK	9504	188U

TUBE, ELECTRON DESIG	LOC	CODE
SKF	8806	313CC

DRAWING ISSUE
61A
64A

ISSUE 99A

MASTER TEST CONTROL CIRCUIT
SD-25800-01-C768
BELL TELEPHONE LABORATORIES INCORPORATED
6S

HIGGINS 4465 K&E

APP FIG. 99 (MFR DISC.)

RELAY

DESIG	4WLT		ATMK		EI		FP3		KTN5				PLB		RAT1		RATA		RAT2		RATB		MTTK		DESIG
CODE	AJ15		AF57		AF126		AF10		AF1;1				AF57		AK30				AK30				AJ15		CODE
OPTION																									OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	61H8	M	-			EM	-	EM	-			M	54A/B5	M	43A8			M	-			EBM	61H7	12
11	EBM	61C7						-	M	39B/C7					EBM	43D3			EBM	43E3			EBM	88/C2	11
10	EBM	11A5	M	-	M	61D8	M	45E8	M	39B/C5			M	-	EBM	43G8			EBM	43G8			EBM	-	10
9	EBM	11A/D7							M	39B/D2					EMB	42B/F9			EMB	42B/F8			EBM	-	9
8	EMB	-	EBM	-	EBM	-	EBM	45E8	EBM	-			EBM	-	EMB	43B8			EMB	43C8			EMB	-	8
7	EBM	61A0					B	-	B	-													EBM	45H2	7
6	EMB	54A/E3	EBM	60A/C4	EMB	61C6	EMB	45G0	EMB	-			EBM	-									EMB	-	6
5	EMB	85B3							M	39B/C0							EMB	43D4			EMB	43E4	EMB	-	5
4	EBM	85G7	M	-	M	5882	M	-	EBM	-			M	-			EMB	43D3			EMB	43E3	EBM	45D9	4
3	EBM	54B/G5							M	39B/G3							EBM	42B/F8			EBM	42B/F8	EBM	40B/B8	3
2	EBM	31B8	M	-	M	61D6	M	45G0	M	39B/G2			M	54A/D9			EBM	43B7			EBM	-	EBM	45G1	2
1	EBM	37B/F5							M	39B/G0							M	43H6			M	43G6	EBM	45G0	1
COIL		31B9		28A/A1		61D6		45G0		39A/D3				54A/B5		43B8		43D4		43C8		43E4		61H9	COIL

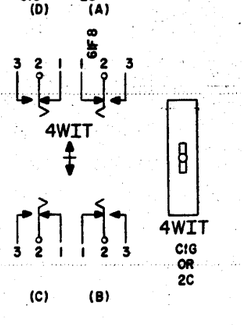
RELAY

DESIG	TTS		4WIR		4WM		LLF																		DESIG
CODE	AF8		AJ22		AJ22		AF73																		CODE
OPTION			AO		AO																				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM	-	EBM	-																			12
11			EBM	-	EBM	-																			11
10	M	45G0	EBM	-	EBM	-	EBM	-																	10
9			EBM	-	EBM	-																			9
8	EBM	-	EMB	-	EMB	-	EBM	85B4																	8
7	B	-																							7
6	EMB	45G1	EMB	-	EMB	-	EBM	-																	6
5	B	-																							5
4			EBM	93E7	EBM	93E6	EBM	85A4																	4
3			EBM	93E9	EBM	93E2																			3
2	M	-	EBM	93E8	EBM	93E5																			2
1			EBM	93E7	EBM	93E1																			1
COIL		45G1		93B0		93B0		85A4																	COIL

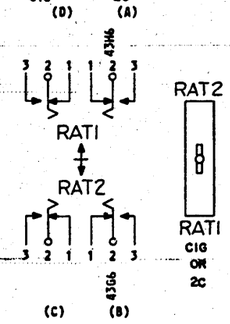
DIODE

DESIG	LOC	CODE
STS	85B6	446F

KEY OR KEY UNIT C1G (D) 2C (A) KEY TOP



KEY OR KEY UNIT C1G (D) 2C (A) KEY TOP



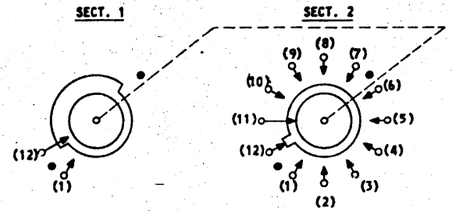
LAMP

DESIG	LOC	CODE
4WLL	62G3	24 MI
EI	61D9	24 MI
FP	45G8	24 MI
PLB	54A/C8	24 MI
RAO	43A8	24 MI
RAT1	43F8	24 MI
RAT2	43G8	24 MI

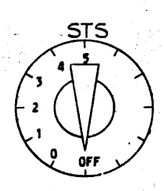
RESISTOR

DESIG	LOC	CODE
FPS	45G0	KS-19151, L1, 2K ± 5%
TTS	45G1	144E, KS-20289, L6C, 4020 ± 1%

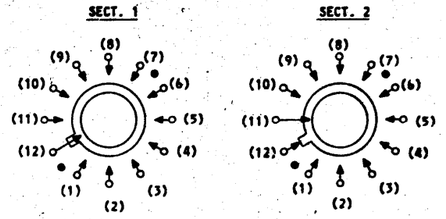
SWITCH STS



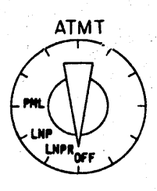
SWITCH TOP



SWITCH ATMT



SWITCH TOP



SWITCH

SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	STS	ATMT
CODE	KS-14618	KS-14618
LIST	45	61
OPTION		
SECT. NO.		
1	88/C0	28A/D1
2	85A6	60A/D3

DRAWING ISSUE

58D	3
61A	4
62D	3
63D	4
64A	4
66A	4
67D	5
68A	5
70A	7
71D	6
75B	
76D	
78C	

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-C77

SD-25800-01-C77

STABILO

APP FIG. 100

RELAY

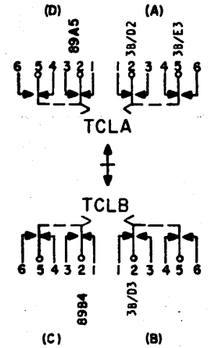
DESIG	VERA								
CODE	U611								
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP									
	9,8,7	BM	148/D0						
	6,5,4	BM	148/D0						
	3,2,1	BM	148/D1						
BOT	3,2,1	BM	148/D1						
	6,5,4	BM	148/D3						
	9,8,7	BM	148/D3						
COIL			12A8						

APP FIG. 101

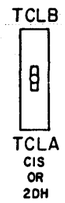
RELAY

DESIG	CCSA		POTS		DAC		TCLC		DAP		DAPI		DAWB								DESIG
CODE	AK30				AF100		AJ5		AJ516		AJ516		AK30								CODE
OPTION									AD		AD		ZWU								OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	89C1			EMB	-	EBM	3B/D2	EBM	-	EBM	89D1	M	89F1							12
11	EBM	-			M	-	EBM	-	EMB	3B/C2	EMB	95A/G2	EBM								11
10	EBM	89C3			EBM	-	EBM	-	EBM	-	EBM	-	EBM	89C4							10
9	EMB	-			M	89D4	EBM	-	EMB	3B/E2	EMB	-	EMB								9
8	EMB	89A2			EBM	-	EBM	89C4	EBM	38G1	EBM	-	EMB	89C2							8
7							EBM	60A/H5	BM	89D0	BM	64C9									7
6					EMB	-	EBM	3B/E1	EBM	-	EBM	-									6
5			EMB	8982			EBM		BM	-	BM	548/E6			EMB						5
4			EMB	-	EBM	-	EBM		EBM	31G2	EBM	89F5			EMB						4
3			EBM	89C3	M	89C4	EBM	89D3	EMB	3B/E4	EMB	48C/G6			EBM						3
2			EBM	89B3	EBM	-	EBM	89D3	EBM	20A/H3	EBM	48C/D7			EBM						2
1			M	89D1	M	89E4	EBM	89E4	EMB	33A/E6	EMB	48C/G6			M						1
COIL		89A2		89A2		89H4		3B/C3		3B/C2		89D1		8982							COIL

(AD) KEY CIS OR KEY UNIT 2DH



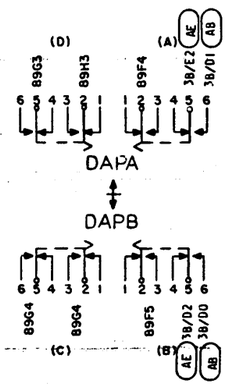
(AD) KEY TOP



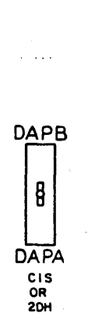
LAMP DESIG	LOC	CODE
CCSA	89C1	24 MI
POTS	8901	24 MI
(ZWU) DAWB	89F1	24 MI

RESISTOR DESIG	LOC	CODE
TCL	89C2	59H

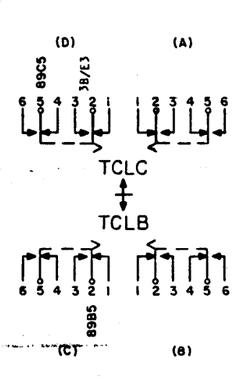
KEY CIS OR KEY UNIT 2DH



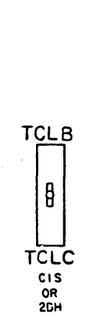
KEY TOP



(AC) KEY CIS OR KEY UNIT 2DH



(AC) KEY TOP



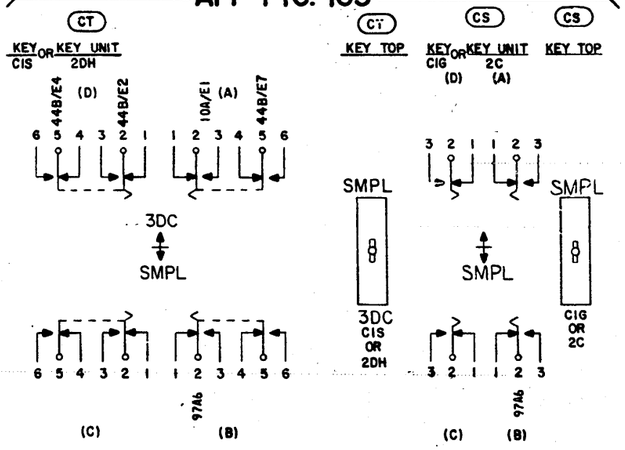
ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-C78
BELL TELEPHONE LABORATORIES INCORPORATED	6S

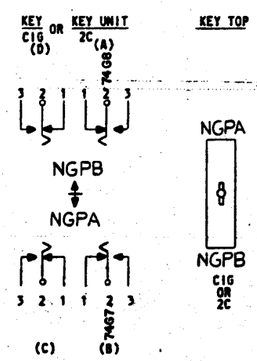
APP FIG. 102 (MFR DISC.)

RELAY DESIG	3DC		OTL8		OTL9		TTL9																	
CODE	AJ15		AF132		AF132		AF132																	
OPTION																								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC		
12	EBM	50A/C0	M	22A/H3	M	22A/H3	M	14B/G7																12
11	EBM	50A/B0	M	22A/H3	M	22A/H3	M	14B/G7																11
10	EBM	50B/C2	M	22B/H3	M	22B/H3	M	14B/G7																10
9	EBM	20A/C9	M	22B/H3	M	22B/H3	M	14B/G7																9
8	EMB	10A/F0	BM	-	BM	20B/E8	BM	-																8
7	EBM	20B/C4	M	24A/G2	M	25G7	M	13A/C4																7
6	EMB	-	BM	23A/G6	BM	23B/F9	BM	-																6
5	EMB	37B/D3	M	23A/G6	M	24B/F7	M	28B/E0																5
4	EBM	12B0	M	25G8	M	24B/F3	M	14B/G7																4
3	EBM	48C/H7	M	26A/E5	M	-	M	14B/G7																3
2	EBM	48C/H8	M	24A/G2	M	-	M	14B/G7																2
1	EBM	48C/D8	M	-	M	-	M	14B/G7																1
COIL		10A/D1		20A/B8		20B/B4		12A0																COIL

APP FIG. 103



APP FIG. 104



DRAWING ISSUE

50D	CRR AJL
51A	AJL
62D	
63D	
64A	
65D	
67D	
68A	
70A	
71D	
73D	
74A	
76D	
78D	
79A	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C79

BELL TELEPHONE LABORATORIES INCORPORATED 6S

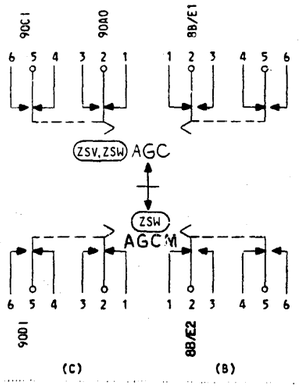
SD-25800-01-C79

APP FIG. 105

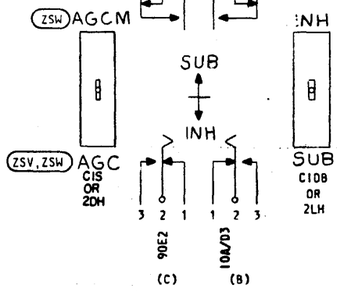
RELAY

DESIG	ADD					
CODE	AF512					
OPTION	ZST					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12						
11						
10						
9						
8	EBM	90H0				
7						
6	EMB	90D8				
5						
4	EBM	90C7				
3						
2						
1						
COIL		9008				

KEY OR KEY UNIT — CIS 2DH



KEYTOP

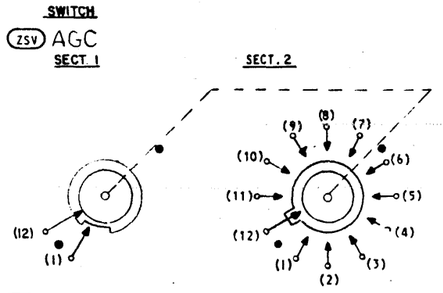


KEY OR KEY UNIT — CIOB 2LH

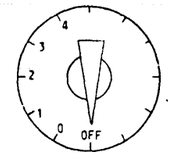
LAMP

DESIG	LOC	CODE
ZST ADD	90C7	2Y MI
AGC	90A7	2Y MI
ALM	90B7	2Y MI
INH	90B7	2Y MI
ZI,2,4,8,16,32,64	90A7	2Y MI

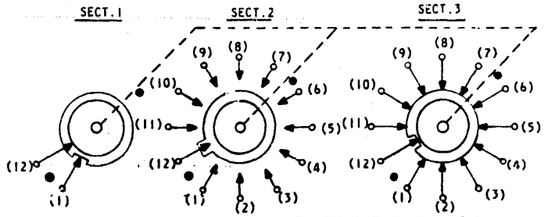
SWITCH — ZSV AGC



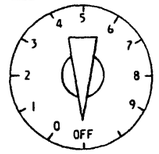
SWITCHTOP — ZSV AGC



ZSW AGC



SWITCH TOP — ZSW AGC



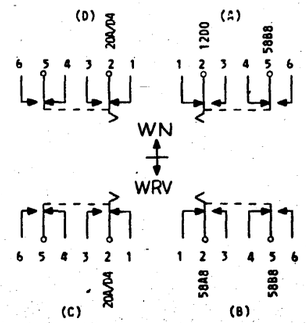
SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	AGC	AGC
CODE	KS-14618	KS-14618
LIST	44	103
OPTION	ZSV	ZSW
SECT. NO		
1	88/D1	88/D1
2	90A0	90A0
3		90G0

APP FIG. 106 (MFR DISC)

DESIG	LIA		OTL10		OTL11		TTL10					
CODE	AF20		AF132		AF132		AF132					
OPTION	ZWI		ZYF									
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EMB	5808	M	22A/H3	M	22A/H4	M	14B/G7				
11	M		M	22A/H3	M	22A/H4	M	14B/G7				
10	EBM		M	22B/H4	M	22B/H4	M	14B/G7				
9			M	22B/H4	M	22B/H4	M	14B/G7				
8	EBM	-	BM	58C8	3M	-	BM	58C7				
7			M	24A/G2	M	24A/G2	M	13A/C5				
6	EMB	58E7	BM	23A/G7	BM	23A/G7	BM	-				
5			M	23A/G7	M	23A/G7	M	28B/E1				
4	EBM		M	25G1	M	25G1	M	14B/G7				
3			M	26A/E6	M	26A/E6	M	14B/G7				
2	EBM	-	M	24A/G2	M	24A/G2	M	14B/G7				
1	M	58H8	M	-	M	-	M	14B/G7				
COIL		5808		20A/B4		20A/B3		12A0				

KEY OR KEY UNIT — CIS 2DH



KEY TOP

APP FIG. 107

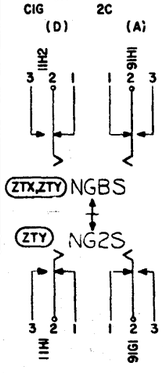
RELAY

DESIG	TBTO		[8]TBT1-8		TBT9		ANGA		ANGB		ANGC	
CODE	AJ12		AJ12		AJ12		AG35		AF42		AG35	
OPTION							ZS8		ZS8		ZQT	
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	-	EBM	-	EBM	-	M	11H0	EMB	118/E1	M	118/E1
11	EBM	-	EBM	-	EBM	-			M			
10	EBM	91E4	EBM	91E6	EBM	91E8	M	118/B1	EBM		M	118/B1
9	EBM	91E3	EBM	91E5	EBM	91E7						
8	EBM	91E3	EBM	91E5	EBM	91E7	B	118/B1	EBM		B	118/B1
7	EBM	91E3	EBM	91E5	EBM	91E7			B			
6	EBM	91E3	EBM	91E5	EBM	91E7	B		EMB		B	
5	EBM	91E3	EBM	91E5	EBM	91E7						
4	EBM	91E3	EBM	91E5	EBM	91E7	M		EBM		M	
3	EBM	91E3	EBM	91E5	EBM	91E7			M			
2	EBM	91E3	EBM	91E5	EBM	91E7	M	118/D1	EBM	11H0	M	53A/F0
1	EBM	91F3	EBM	91F4	EBM	91F7			M	53A/E0		
COIL		91H3		91H3		91H3		11H0		118/E0		118/E1

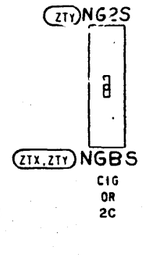
LAMP

DESIG	LOL	CODE
TBTO	91F4	13J(RES)
TBT1-8	91F6	13J(RES)
TBT9	91F9	13J(RES)
TBU	91F1	13J(RES)

KEY OR KEY UNIT — CIG 2C



KEYTOP



ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C80

BELL TELEPHONE LABORATORIES INCORPORATED 6S

KIMBERLY CLARK FORMS, INC.

APP FIG. 108

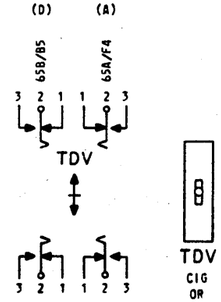
RELAY								
DESIG	TDV		TDVA					
CODE	AJ129		AG14					
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12								
11								
10	EBM	65B/B5						
9			B	65A/F6				
8	EBM	48A/E3	M	65A/F6				
7			B	-				
6	EBM	-	M	-				
5			B	-				
4	EBM	-	M	65B/B6				
3								
2	M	65A/F7						
1								
COIL		65A/F6		65B/B6				

KEY OR KEY UNIT: CIG 2C

KEYTOP

RESISTOR

DESIG	LOC	CODE
TDV	65A/F7	KS-19152,L1,750

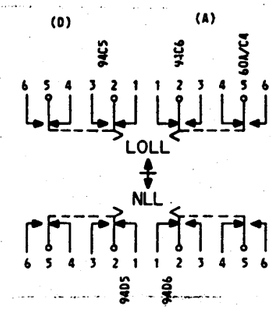


APP FIG. 109

RELAY												
DESIG	REX		LOL		NOL		LOLP		NTRE			
CODE	AF57		AK30				AF57		AF132			
OPTION												
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	40B/B4	M	-			M	94F5	M	-		
11			EBM	-					M	-		
10	M	9G0	EBM	60A/C5			M	-	M	-		
9			EMB	60A/D5					M	-		
8	EBM	20A/F2	EMB	9486			EBM	-	BM	-		
7									M	-		
6	EBM	26A/G5					EBM	-	BM	-		
5					EMB	94C6			M	418/D3		
4	M	50B/E4			EMB	60A/C6	M	9416	M	418/D3		
3					EBM	60A/D6			M	418/D3		
2	M	94H7			EBM	60A/D5	M	94H2	M	418/D3		
1					M	-			M	418/D3		
COIL		94A2		9404		9405		94F5		9482		

KEY OR KEY UNIT: CIS 20H

KEY TOP

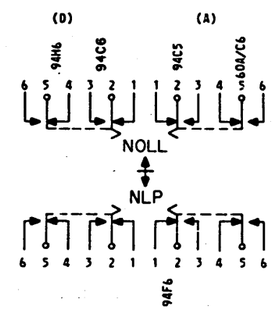


NLL

LOLL
CIS
OR
20H

KEY OR KEY UNIT: CIS 20H

KEY TOP



NLP

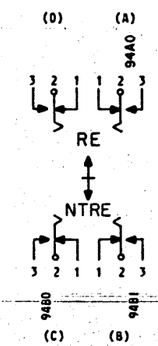
NOLL
CIS
OR
20H

KEY OR KEY UNIT: CIG 2C

KEY TOP

LAMP

DESIG	LOC	CODE
LOLP	94H5	24MI



NTRE

RE
CIG
OR
2C

APP FIG. 110 (MFR DISC)

RELAY						
DESIG	CBRL					
CODE	AF114					
OPTION						
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12						
11						
10	M	56B/C5				
9						
8	BM	7A/D3				
7						
6	BM	-				
5						
4	M	56B/A7				
3						
2	B	65A/D6				
1						
COIL		56B/C6				

KEY OR KEY UNIT: CIG 2C

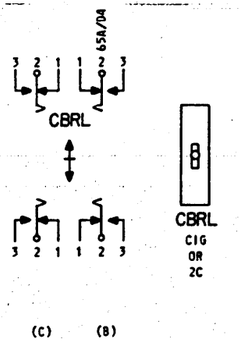
KEY TOP

LAMP

DESIG	LOC	CODE
CBRL	56B/A6	24MI

RESISTOR

DESIG	LOC	CODE
CCE	7584	~~107A, 300~~, KS-20810,L1A,298±1%



DRAWING ISSUE	
61A	JLY ASL AMD
62D	JLY ASL AMD
64A	FEB MAR AMD
67D	SEP
70A	EM
72A	MAR
73D	
75B	
77A	
78D	
79A	
80D	

ISSUE 100B

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-C81

SD-25800-01-C81

HIGGINS 4465

APP FIG 111

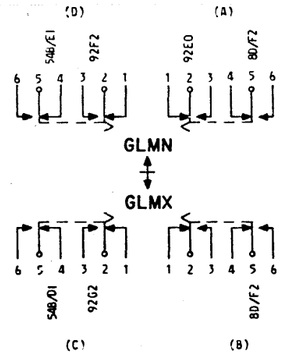
DESIG	GLT			TSE					
CODE	313A			313A					
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP									
	5,3,10	BM	92G7	5,3,10	BM	92C0			
	4,8,9	BM	92C4	4,8,9	BM	92C4			
BOT									
COIL			92A5			92F4			

DESIG	GLTA		TSEA			
CODE	AK30					
OPTION						
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	92D0				
11	EBM	92G7				
10	EBM	92A4				
9	EMB					
8	EMB	92C5				
7						
6						
5			EMB	92C5		
4			EMB	92D0		
3			EBM	92G7		
2			EBM	92G7		
1			M	92C3		
COIL		92C5		92C5		

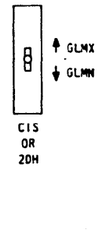
CAPACITOR

DESIG	LOC	CODE
GL	92D1	441QS

KEY OR KEY UNIT CIS 2DH



KEY TOP



POTENTIOMETER

DESIG	LOC	CODE
GLMN	92D1	KS-19722,L1,100K
GLMX	92E1	KS-19722,L1,100K

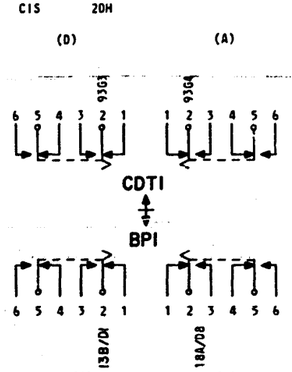
RESISTOR

DESIG	LOC	CODE
GL	92D2	~~221A~~ KS-20810,L1A,352K
GL1	92E2	~~221A~~ KS-20810,L1A,150K

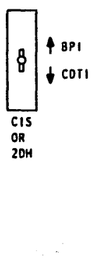
APP FIG 112 (MFR DISC.)

DESIG	KPD			KPD1					
CODE	U64			U64					
OPTION									
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	93C2	12,11	M	93C8			
	10,9	M	93C2	10,9	M	93C8			
	8,7	M	93C2	8,7	M	93C8			
	6,5	M	93C2	6,5	M	93C8			
	4,3	M	93C2	4,3	M	93C6			
	2,1	M	93C2	2,1	M	93C6			
BOT	2,1	M	93C2	2,1	M	93C8			
	4,3	M	93C5	4,3	M				
	6,5	M	93C5	6,5	M				
	8,7	M	93C5	8,7	M				
	10,9	M	93C5	10,9	M				
	12,11	M	93C5	12,11	M				
COIL			11E4			11D4			

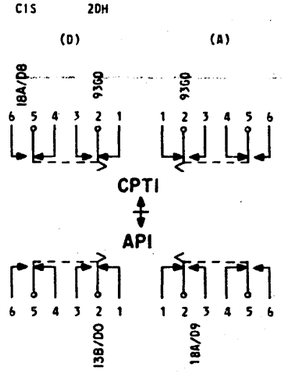
KEY OR KEY UNIT CIS 2DH



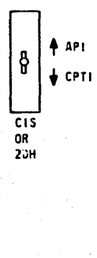
KEY TOP



KEY OR KEY UNIT CIS 2DH

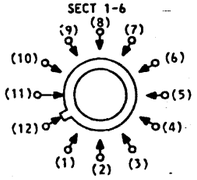


KEY TOP

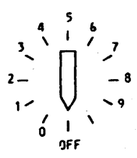


SWITCH

APU/CDPU
BPU/CDU

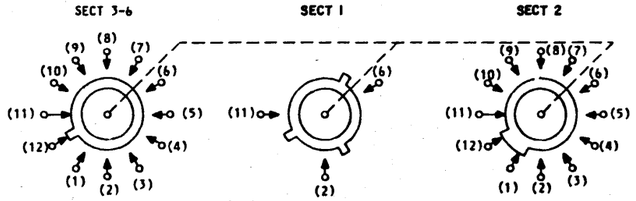


SWITCH TOP

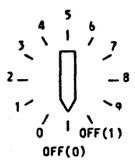


SWITCH

CPU/CDA



SWITCH TOP



DESIG	APU/CDPU		BPU/CDU		CPU/CDA	
CODE	KS-14618,L51		KS-14618,L51		KS-14618,L65	
OPTION						
SECT	TERM.	LOC	TERM.	LOC	TERM.	LOC
1	1-8,11	93F0	1-8,11	93F3	2,6,11	93F7
2	1-12	138/C0	1-12	138/C1	2-12	138/C2
3	1-12	93F0	1-12	93F3	1-12	93F7
4	1-12	93F0	1-12	93F3	1-12	93F7
5	1-8,11	93F0	1-8,11	93F3		
6	1-11	18A/D8	1-11	18A/D7	1-11	18A/D6

DRAWING ISSUE
630 RLP MMB AMD
68A PEC
78D

ISSUE 100B

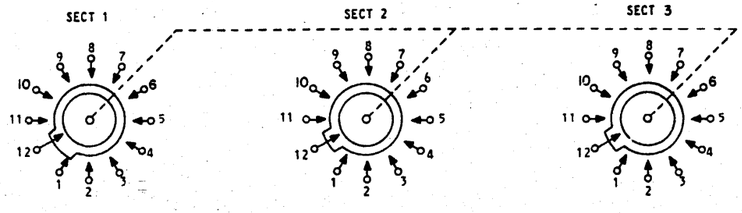
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C82

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C82

APP FIG 113

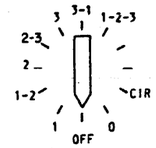
SWITCH
RMBR



SWITCH SECTIONS SHOWN IN OFF POSITION

DESIG	RMBR	
CODE	KS-14618,L77	
OPTION		
SECT	TERM.	LOC
1	2-12	4008
2	2.4. 7,12	4OF8
3	1-7. 10,12	4008

SWITCH TOP
RMBR

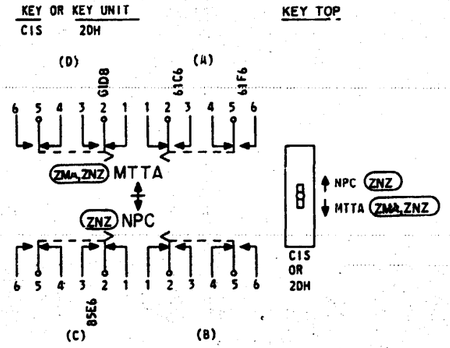


APP FIG 114

DESIG	LK		MTTA					
CODE	AG21		AJ15					
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			EBM	61H7				
11			EBM	61C8				
10	M		EBM	61C6				
9			EBM	61E6				
8	EMB		EMB	61F5				
7			EBM	54B/51				
6	EMB		EMB					
5			EMB					
4	M	61D6	EBM					
3			EBM					
2	M	61C6	EBM					
1			EBM					
COIL	X	61C6	X	61D9	X		X	

KEY OR KEY UNIT
CIS 2DH

KEY TOP



DRAWING ISSUE

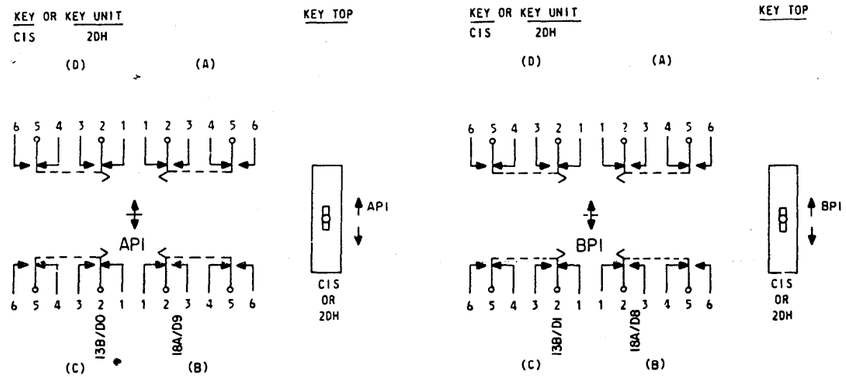
63D	SEC ARR AMT
64A	SEC ARR AMT
65D	WIR ARR AMT
66A	WIR ARR AMT
68A	OT
70A	EM

ISSUE 90D

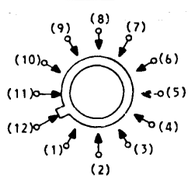
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-C83
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

SD-25800-01-C83

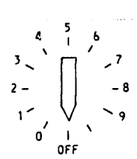
APP FIG 116



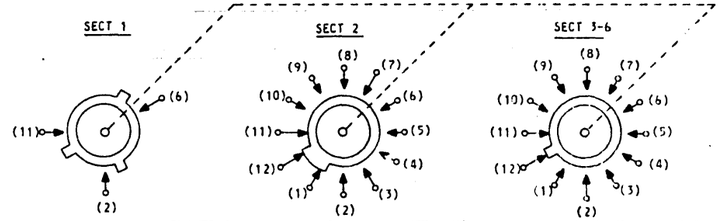
SWITCH
APU, BPU



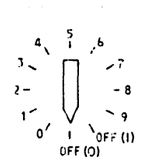
SWITCH TOP
APU, BPU



SWITCH
CPU



SWITCH TOP
CPU



SWITCH SECTIONS SHOWN IN OFF POSITION

DESIG	APU		BPU		CPU	
CODE	KS-14618,L51		KS-14618,L51		KS-14618,L65	
OPTION						
SECT	TERM.	LOC	TERM.	LOC	TERM.	LOC
1						
2	1-12	13B/C0	1-12	13B/C1	2-12	13B/C2
3						
4						
5						
6	1-11	18A/D6	1-11	18A/D7	1-11	18A/D6

DRAWING ISSUE
63D
78D

78

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C85

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C85

APP FIG 117

RELAY

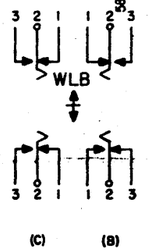
DESIG	TAMA		
CODE	U81		
OPTION			
	CONT NO.	CONT ARR	LOC
TOP	12,11	M	53A/E5
	10,9	M	
	8,7	M	53A/C7
	6,5	M	
	4,3	M	
	2,1	M	
BOT.	2,1	M	
	4,3	M	54B/E8
	6,5	M	
	8,7	M	
	10,9	M	
	12,11	M	
COIL			53B/D5

RELAY

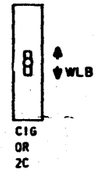
DESIG			LBH		LBS		WTB	
CODE			AF85		AF57		AF15	
OPTION			ZWJ		ZWJ			
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12					M	58E8		
11								
10			EBM	58E7	M	58E7		
9			PM					
8					EBM		M	
7								
6			EBM		EBM		FSB	
5								
4			PM		M	58F7	M	58R8
3			M	58F7				
2					M			
1								
COIL				58E8		58E8		58G7

APP FIG 118 (MFR DISC)

ZWJ
KEY OR KEY UNIT
CIG (D) 2C (A)



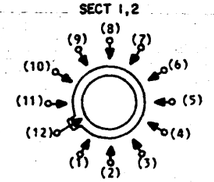
ZWJ
KEY TOP



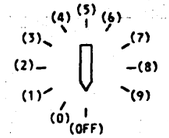
OPTION	LAMP DESIG	LOC	CODE
ZWJ	LBH	58F6	13J (RES)
ZWJ	LBS	58F6	13L (RES)
	WTB	58G7	24MI

SWITCH
ZWJ LBH, LBS

SECT 1,2



SWITCH TOP



DESIG	LBH		LBS	
CODE	KS-14618,L39		KS-14618,L39	
OPTION	ZWJ		ZWJ	
SECT	TERM.	LOC	TERM.	LOC
1	8-8,12	58F7	8-10,12	58F7
2				

DRAWING ISSUE

830	5S
850	W5
66A	A5
68A	2S
690	Q5
TID	5A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

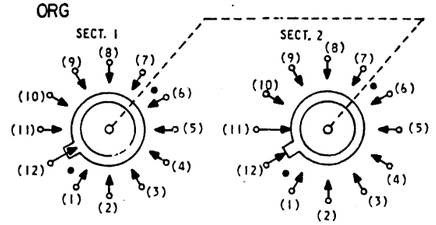
SHEET 6S

SD-25800-01-C86

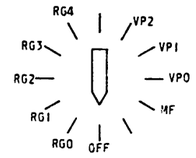
SD-25800-01-C86

APP FIG 119 (MFR DISC.)

SWITCH
ORG



SWITCH TOP
ORG



DESIG	ORG
CODE	KS-14618
LIST	61
OPTION	
SECT. NO.	
1	96E8
2	9606

RELAY

DESIG	CLK		NTS									
CODE	AK30											
OPTION												
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	11B/E5										
11	EBM											
10	EBM											
9	EMB											
8	EMB											
7												
6												
5			EMB									
4			EMB									
3			EBM									
2			EBM									
1			M	508/F4								
COIL		11B/E5		508/F3								

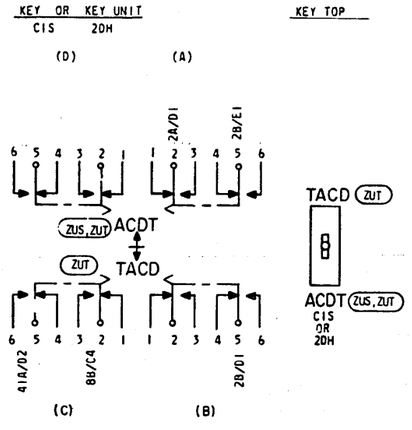
APP FIG 120 (MFR DISC.)

RELAYS

DESIG	ACDI		ACDT		OBS		SIG		TGTI		AV		AVG		PRD		PRU		PROK		PRUK		DESIG
CODE	AJ15		AJ15		AF32		AJ15		AJ15		AK30				AK30				AK30				CODE
OPTION															ZUU				ZUU				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR		CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	2A/C2	EBM		EMB	53C/E2	EBM		EBM	42A/B2	M	42A/B9					M				M	41A/C5	12
11	EBM	28/C0	EBM				EBM	518/D5	EBM	10A/A5	EBM						EBM				EBM	41A/D3	11
10	EBM	42A/D1	EBM	95A/E6	EBM	78/A3	EBM		EBM	40B/A6	EBM	42A/D8					EBM				EBM	57A/F6	10
9	EBM	78/A4	EBM	982			EBM		EBM	8A/D3	EMB						EMB	41A/D5			EMB	41A/B7	9
8	EMB	538/F1	EMB	2A/B2	EBM		EMB	10A/D0	EMB	42A/B1	EMB	42A/C7					EMB	41A/D4			EMB	41A/C4	8
7	EBM	53C/D2	EBM	2A/B0			EBM		EBM														7
6	EMB	658/C5	EMB	95A/F5	EMB		EMB		EMB														6
5	EMB	10A/E0	EMB	518/D5			EMB	408/E4	EMB				EMB	42A/C7	EMB				EMB	41A/B7			5
4	EBM	538/C0	EBM	658/A6	EBM		EBM		EBM				EMB		EMS				EMB				4
3	EBM	8A/F6	EBM	518/F5			EBM	10A/A6	EBM				EBM	42A/D8	EBM	42A/D7			EBM				3
2	EBM		EBM	518/D5	EBM	53C/D0	EBM		EBM				EBM	42B/F0	EBM	41A/D4			EBM	658/A6			2
1	EBM		EBM	958/C6			EBM	408/A5	EBM				M	42A/B9	M				M	41A/C4			1
COIL		2A/B0		2A/B2		53C/D0		10A/E0		42A/B1		42A/B7		42A/B7		41A/D6		41A/D6		41A/C4		41A/C5	COIL

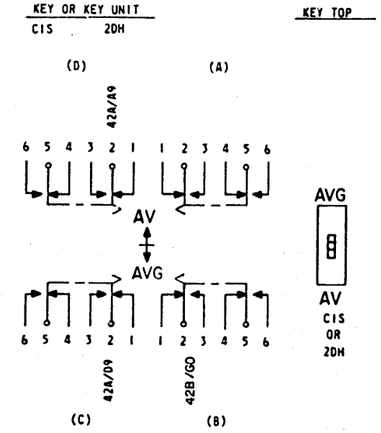
KEY OR KEY UNIT
CIS 20H

KEY TOP



KEY OR KEY UNIT
CIS 20H

KEY TOP



DIODE

DESIG	LOC	CODE
ACD	53D/D1	446F
ACD1	8A/G6	446F
ACD2	40B/G7	446F

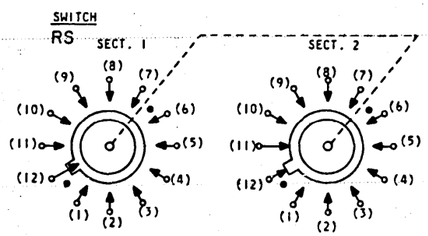
LAMP

DESIG	LOC	CODE
AV	42A/A9	24 MI
AVG	42A/A9	
OBS	53C/E0	13J(RES)
(ZUU) PRD	41A/B7	24 MI
(ZUU) PRU	41A/B7	
TGTI	42A/A2	

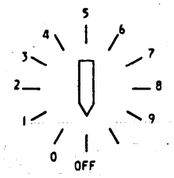
RESISTOR

OPT	DESIG	LOC	CODE
ZLG	MLF	96D8	18AG

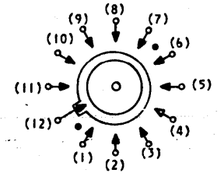
SWITCH
RS



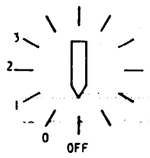
SWITCH TOP
RS



SWITCH
RTF



SWITCH TOP
RTF



DESIG	RS	RTF
CODE	KS-14618	KS-14618
LIST	61	38
OPTION		
SECT. NO.		
1		96F0
2	44B/C8	

650	CK
67D	MG
68A	MH
70A	CM
71D	65P
73D	
75B	
76D	
78D	
79A	

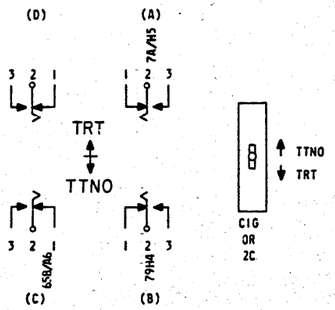
ISSUE
99A

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-C87
BELL TELEPHONE LABORATORIES INCORPORATED
6S

APP FIG 121

KEY OR KEY UNIT
CIG 2C

KEY TOP

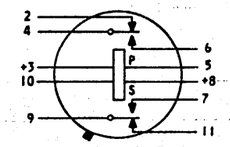


APP FIG 122

RELAY

DESIG	RCD		NRD		TSST					
CODE	AK22				AJ15					
OPTION										
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			EBM		EBM					
11			EBM		EBM	97E3				
10			EBM		EBM	97E4				
9			EMB	97G5	EBM	97B4				
8			EMB	97H4	EMB					
7					EBM					
6					EMB					
5	EMB	97H5			EMB	97F3				
4	EMB	97H4			EBM	7A/A1				
3	EBM				EBM	97A1				
2	EBM				EBM	10A/D4				
1	EBM				EBM	97D3				
COIL	97H5		97G5		97C4					

RELAY



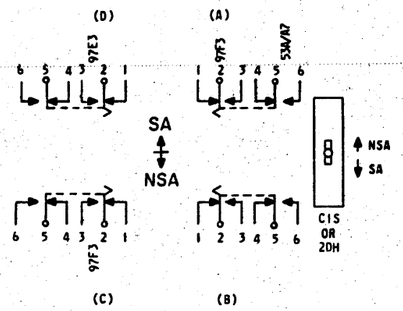
DESIG	NSA	SA
CODE	3218	3218
OPTION		
11		
10	97E5	97D5
9	97E4	97E4
8	97E5	97D5
7	97E4	97E4
6	97F5	97E5
5	97E5	97D5
4	97F5	97E5
3	97E5	97D5
2	97F5	97E5
1		

DIODE

DESIG	LOC	CODE
NSA	97E4	446F
SA	97E4	446F

KEY OR KEY UNIT
CIS 2DH

KEYTOP



LAMP

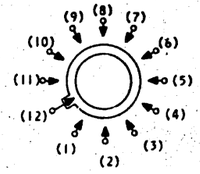
DESIG	LOC	CODE
LCT	97B4	24 MI
NRD	97G5	24 MI
NSA	97E5	24 MI
RCD	97H5	24 MI
SA	97D5	24 MI
TRS	97A3	13J(RES)

RESISTOR

DESIG	LOC	CODE
NSA	97F3	19YN
SA	97E3	18EC
SMP	97E5	KS-19152,L1,2K

SWITCH
TSH,TSS

SECT 1



SWITCH TOP

DESIG	TSH	TSS
CODE	KS-14618	
LIST	38	
OPTION		
SECT NO.		
1	97C4	97B4

APP FIG 123 (MFR DISC)

RELAY

DESIG	RDCK		RDR					
CODE	AK6							
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			BM	73C6				
11			BM					
10			BM					
9			BM					
8			BM	73D7				
7								
6								
5	BM	73D7						
4	BM							
3	BM	73B7						
2	BM							
1	BM	73B6						
COIL		73B6		73C6				

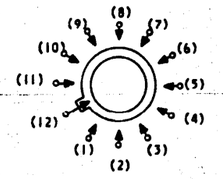
LAMP

DESIG	LOC	CODE
RDK	73D7	24 MI
RDR	73D7	24 MI

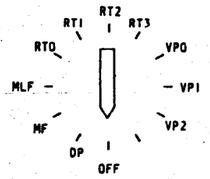
APP FIG 124

SWITCH
RG

SECT 1-3



SWITCH TOP
RG



DESIG	RG
CODE	KS-14618
LIST	40
OPTION	
SECT NO.	
1	96G1
2	96G1
3	

DRAWING ISSUE

67D	MS
70A	CH
71D	BSM
74A	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C88

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C88

APP FIG 125

RELAY

DESIG	A			AIA			CK			CQ			CQI			DST			IK		
CODE	U422			U287			U419			U1301			U69			U254			U580		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP													10,9	M							
										6,5	M	59C2	8,7,6	BM							
				5,4	M	59B6				4,3	M	59D1	5,4	M	68C5	5,4	M				
	3,2,1	BM	59D3	2,1,3	MB	59D3	3,2,1	BM	59D4	2,1	M	67D2	2,1,3	MB	59C2	3,2,1	BM	68B5	3,2,1	BM	59D6
BOT.	2,1	M	59B3	2,1	M	59D3	2,1	M	68D4	2,1	M	59D2	2,1	M	59B1	3,2,1	BM		3,2,1	BM	
				4,3	M		4,3	M		4,3	M		4,3	M	59B1	5,4	M				
										6,5	M		6,5	M							
													8,7	B	59A3						
													10,9	M							
COIL			59D3			59D3			68C3			59D2			59C2			68C5			69C4

RELAY

DESIG	PA			PAR			PTO			PTO			PTR			PTR			RCI		
CODE	U580			U580			239FC			280A			239FC			280A			U65		
OPTION							YA			YB			YA			YB					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP																			12,11	M	59D3
																			10,9	M	68D1
																			8,7	M	68A1
																			6,5	M	68D2
																			4,3	M	59E4
	3,2,1	BM	68D3	3,2,1	BM	5983	4,7,3	BM	59A3	4,7,3	BM	59A3	4,7,3	BM	68C1	4,7,3	BM	68C1	2,1	M	59E3
BOT.	3,2,1	BM		3,2,1	BM	5984													2,1	M	59E4
																			4,3	M	68D3
																			6,5	M	68D2
																			8,7	M	68D5
																			10,9	M	
																			12,11	M	
COIL			68C1			68C3			68A0			68A0			68A2			68A2			6700

RELAY

DESIG	RC2			RD			TAB			TBL						TCK			TP		
CODE	U65			U69			U580			U286						U1283			U422		
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC
TOP	12,11	M	68D4																		
	10,9	M	68D5																		
	8,7	M	59E1	10,9	M	59D2															
	6,5	M	68D6	8,7,6	BM											8,7,6	BM	59A1			
	4,3	M	59E2	5,4	M	59D2				5,4	M	59C5				5,4,3	BM	68D4			
	2,1	M	68D5	2,1,3	MB	59B1	3,2,1	BM	59D1	3,2,1	BM	59D4				2,1	B		3,2,1	BM	67E0
BOT	2,1	M	59E2	2,1	M		3,2,1	BM		2,1	M	68D3				2,1	B		2,1	M	
	4,3	M	59E2	4,3	M					4,3	M	67D2				5,4,3	BM	69A/B4			
	6,5	M	59E0	6,5	M											7,6	BM				
	8,7	M	59E1	8,7	B	59E0															
	10,9	M		10,9	M																
	12,11	M																			
COIL			6700			59B2			68C4			59C4						59B1			6701

RELAY

DESIG	TVT			UCK																	
CODE	U65			U1284																	
OPTION																					
	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO.	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP	12,11	M	5A/G2																		
	10,9	M	5A/F3																		
	8,7	M	59E7																		
	6,5	M	67D6																		
	4,3	M	18/H1	5,4,6	MB	69A/B4															
	2,1	M	108/G7	2,1,3	MB	5906															
BOT.	2,1	M	59E4	3,2,1	BM	68C5															
	4,3	M	59E5	5,4	M	59C1															
	6,5	M	59E5																		
	8,7	M	59E5																		
	10,9	M	59E5																		
	12,11	M	59E6																		
COIL			68A7			5981															

CAPACITOR		
DESIG	LOC	CODE
PTO	6881	[2] 137QA
		OR
		[2] 437QA
PTR	6883	[2] 137QA
		OR
		[2] 437QA

RESISTOR		
DESIG	LOC	CODE
A	6885	18AG
B	59C1	44AD
C	59A1	44AD
D	59C1	19EF
E	59C1	19JH
F	68A2	19CY
G	6883	19BY
H	68A0	19RE
J	6881	19BY
K	59C1	18CR

ISSUE
67D
78D
80D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C89

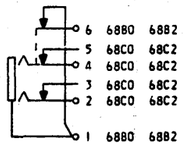
BELL TELEPHONE LABORATORIES INCORPORATED 65

E-7422-B-3(11-62)

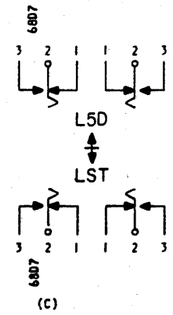
APP FIG 126

JACK 267A

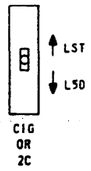
PTO PTR



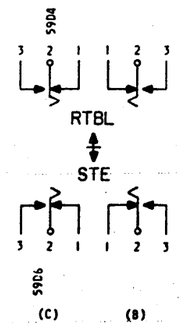
KEY OR KEY UNIT — CIG (D) 2C (A)



KEY TOP



KEY OR KEY UNIT — CIG (D) 2C (A)



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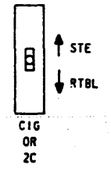
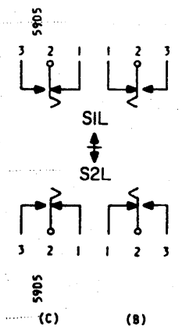
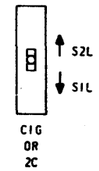


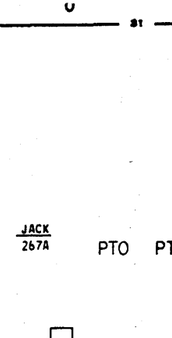
KEY OR KEY UNIT — CIG (D) 2C (A)



KEY TOP

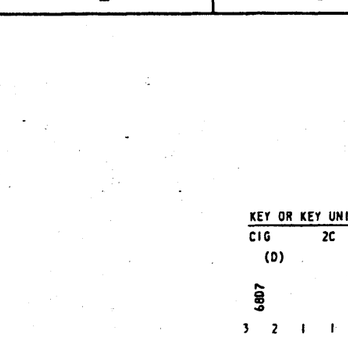


KEY OR KEY UNIT — CIG (D) 2C (A)

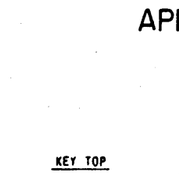


KEY TOP

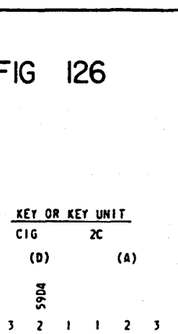
KEY OR KEY UNIT — CIN 28D — (D) OR (B) (A) OR (C)



KEY TOP



KEY OR KEY UNIT — CIG (D) 2C (A)



KEY TOP

DRAWING ISSUE: 67D, 78D, 90D

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C90

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C90

PART OF APP FIG 127

RELAY

DESIG	AEC		TMCK				CB		CTR				TCTT						CS		DESIG
CODE	AF111		AK30				AK30						AK8						AJ504		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	104D3	M				M	98D4					M	102E9					-		12
11	M		EBM				EBM						M	103G7					BM		11
10	M	104D2	EBM				EBM	99B3					EBM	9984					M	98D3	10
9	M		EMB				EMB						EMB						BM	99C3	9
8	EBM		EMB				EMB	98H3					EM	10281					-		8
7	B	1A/B3																	BM		7
6	EMB																		B		6
5	M				EMB	104D4			EMB		EM								BM		5
4	EBM				EMB				EMB		B								M	98E2	4
3	M	104E2			EBM	99D2			EBM	99D2	EBM								BM		3
2	M				EBM				EBM	98H4	EBM								M	98H3	2
1	M	10307			M				M	98D5	M								BM		1
COIL		104D3				98D2		9804		98D5				10281						98D3	COIL

RELAY

DESIG	CTV				DEC		DISC		DNK		DR1		DR2		DR1A		DR2A		DRST		DESIG
CODE	AK30				AF111		AJ69		AF85		AJ9		AJ9		AK30				AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	9804			EM	104E3	EB				EBM		EBM		M				EBM	98E3	12
11	EBM				M		EBM				EBM	79G4	EBM	99G4	EBM	100C5			EBM	99H2	11
10	EBM	98F1			M		EBM	104E5	EBM	698/A7	EBM		EBM		EBM				EBM	98H2	10
9	EMB	98H3			M		EBM		PM	18C/G3	EBM	100G8	EBM	100G8	EMB				EBM	9983	9
8	EMB				EBM	-	B	104C1			EMB		EMB		EMB	99G5			EMB	9902	8
7					B	1A/B4	M	10388											EBM		7
6					EMB		B		EBM	59A6	EMB	100C4	EMB	100D4					EMB		6
5					M		EMB	104D3			-						EMB		EMB		5
4					EBM		M	1A/B3	PM	578/F7	EBM	100C3	EBM	100C3			EMB	99G5	EBM		4
3					M		EBM		M	18C/F8	EBM	100D2	EBM	100E3					EBM		3
2					M		EBM	104C5			EBM	100F3	EBM	100F3			EBM	100D5	EBM		2
1					M	103D8	EBM				EBM	100A2	EBM	100A2			M		EBM		1
COIL		9804				104E3		104C3		18C/G3		100G3		100G3		100F9		100G9		98E3	COIL

RELAY

DESIG	IEC		TCTR		RTBL		MA		NRST		RECE		TCT		TCT1		TCT2		TCTK		DESIG
CODE	AF111		AK30				AF13		AJ15		AJ15		AF24		AJ12		AJ15		AJ69		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EM	10483			M	99G6	EM	104C4	EBM		EBM		M	1A/A3	EBM		EBM	102C3	EB		12
11	M				EBM				EBM		EBM	57A/C6	M	102C2	EBM	99H2	EBM		EBM		11
10	M				EBM	99F6	M	104C3	EBM		EBM	9986	M	103G7	EBM	99H1	EBM		EBM	104D5	10
9	M				EMB				EBM		EBM	578/87	M	104D1	EBM		EBM		EBM	103F7	9
8	EBM				EMB	99D4	EBM	104D2	EMB		EMB		M	104D1	EBM	103H2	EMB		B		8
7	B	103H1					B		EBM		EBM	65A/C8	M	104D1	EBM	99A6	EBM	65A/B6	M	98G6	7
6	EMB						EMB	104C5	EMB	103F4	EMB		M	103H6	EBM	9983	EMB		B	9983	6
5	M		EMB	99E5			B	104A4	EMB	98G7	EMB	98C2	M	10280	EBM	99D2	EMB		EMB		5
4	EBM	103F4	EMB	9986			M	104E6	EBM	9984	EBM	99D6	M	10005	EBM	99A1	EBM	99D7	M	102D2	4
3	M	10309	EBM	102C2					EBM	56B/DO	EBM		M	103G8	EBM	98D7	EBM		EBM		3
2	M		EBM	98G7			M		EBM	99A5	EBM	99D7	M	98H0	EBM	98F7	EBM	99D7	EBM	102E8	2
1	M		M				M	10388	EBM	99A3	EBM		M	18/C9	EBM		EBM	103F2	EBM	56B/DI	1
COIL		10483		9986		99G6		104C3		99A3		99D6		1A/A3		103F7		103F8		102C2	COIL

RELAY

DESIG	TCTN		TKCT		TND		TNDK		TNT		TNTA		TRSA		TRST		TST		TTC		DESIG
CODE	AJ504		AJ5		AK30				AJ109		AF88		AJ504		AK30				AF135		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT AR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM		M	102A0			EM	103F3	M	103F4			M	99C3					12
11	BM	10282	EBM		EBM	10280			B	103F2	B		BM		EBM	9983					11
10	M		EBM		EBM	102C3			EBM		M	103F4	M		EBM	98G1			M	104B1	10
9	BM		EBM		EMB				B	103F4	B	104D1	BM		EMB	9984					9
8			EBM		EMB				EBM	103G8	BM				EMB				EMB	10485	8
7	BM		EBM	1A/B2					B		B	103F5	BM						B	103F2	7
6	B		EBM						EMB		BM		B						EBM	10389	6
5	BM		EBM				EMB		M		B	10481	BM						B	104C4	5
4	M	10283	EBM				EMB	102A1	EBM		M	103F5	M	99C4					EMB	98H4	PM	10485	4
3	BM		EBM	9903			EBM	102C3	B	103G8	B		BM						EBM	7A/E2	B	10402	3
2	M		EBM	10282			EBM	10281	M		M	103F5	M						EBM	103H6			2
1	BM	102C3	EBM	1A/A2			M	102A1	M		B	103H2	BM	99C3					M	98E7			1
COIL		10282		103F9		102F6		102A0		103G2		103F8		9985		9983				9808		10485	COIL

RELAY

DESIG	TTV		TVT		TVTI		BAK		ATVA				ATVB		ATVC		ETRC		LCP		DESIG
CODE	AJ12		AF24		AJ12		AF42		AK30				AF504		AF504		AJ503		AJ12		CODE
OPTION									ZTW				ZTW		ZTW						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	100C2	M	1B/H1	EBM	698/F5	EMB	99G7	M	698/A7			M	698/B8	M		EBM		EBM		12
11	EBM	100D2	M	98H2	EBM	18C/G2	M		EBM	20A/F0			M	15A/H4	M		EBM		EBM		11
10	EBM	100F2	M	103F5	EBM	22B/C3	EBM		EBM	984			M	15A/H2	M	13B/C6	EBM		EBM		10
9	EBM	100G2	M	5A/F3	EBM	103F6			EMB				M	15A/H2	M	13B/C6	EBM		EBM		9
8	EBM	100H2	M	5A/G2	EBM	108/G7	EBM		EMB				M	14A/G8	M	13B/C5	EMB		EBM		8
7	EBM		M		EBM	98C8	B						M	14A/G8	M	13B/C5	EBM		EBM	10482	7
6	EBM		M	67D6	EBM		EMB						M	14A/H6	M	13B/C4	EMB	56A/F4	EBM	99G7	6
5	EBM	98D2	M	10280	EBM	9807					EMB		M	14A/H6	M	13B/C3	EMB	57A/D6	EBM	99G2	5
4	EBM	100A3	M	99H3	EBM	104B1	EBM	56A/E5			EMB		M	14A/H3	M	13B/C3	EBM	99C7	EBM	9985	4
3	EBM		M		EBM		M				EBM		M	14A/H3	M	15A/H4	EBM	99D6	EBM	99G5	3
2	EBM		M	98H0	EBM	9785	EBM				EBM		M	14A/H2	M	15A/H5	EBM	99D6	EBM	99D4	2
1	EBM		M		EBM	103F4	M	99C4			M		M	14A/H2	M	15A/H5	EBM	99C6	EBM	99H6	1
COIL		98G2		68B/D6		98G2		99G6		698/G6				698/A8		698/A8		9906		99H6	COIL

RELAY

DESIG																					DESIG
CODE																					CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																					12
11																					11
10																					10
9																					9
8																					8
7																					7
6																					6
5																					5
4																					4
3																					3
2																					2
1																					1
COIL																					COIL

DRAWING ISSUE

67D	DF
DRAWING REFURBISHED WITHOUT CHANGE 2-20-68 ESM	
75B	
78D	
79A	
80C	
83A	

ISSUE 99A

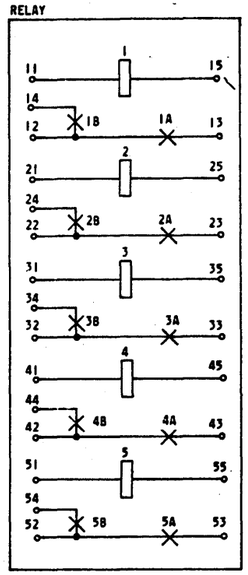
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C91

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

E-7422-A-2(8-64)

PART OF APP FIG 127

RELAY



DESIG		L1	L2	AR	BR	CR
CODE		293C				
OPTION						
COIL	POS	1	2	3	4	5
	LOC	100B3	100B3	100C3	100D3	100F3
CONT POS	A	100C6	100C6	100C6	100D6	100D6
	B					

DIODE

DESIG	LOC	CODE
TNT	103G2	446F
RST	99A3	446F
TCTR	9987	446F

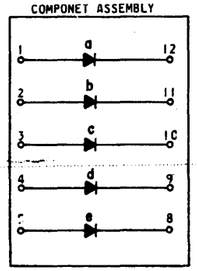
LAMP

DESIG	LOC	CODE
RSTI	9983	13J(RES)
TCTN	10283	13J(RES)

RESISTOR

DESIG	LOC	CODE
GU	103G4	19TL
IR	103H5	18AG
MA	104B4	19GJ
OT	104E5	18DS
RAL1	100B4	18AG
RAL2	100C4	18AG
TC	104C6	18CR
UK	103G5	19RN
XTA	103H4	18HG
XTN1	103G4	18HR

COMPONET ASSEMBLY



DESIG		CB		
CODE		ED-94823F(),G103		
OPTION				
COMPONENT		DESIG	LOC	CODE
DIODES	a	CB0	98C1	446K
	b	CB1	98C0	
	c	CB2	98C0	
	d	DIS	56B/C0	
	e	SPARE		

DRAWING ISSUE

670	DP
780	
83A	

CB

83

MASTER TEST CONTROL CIRCUIT (2)

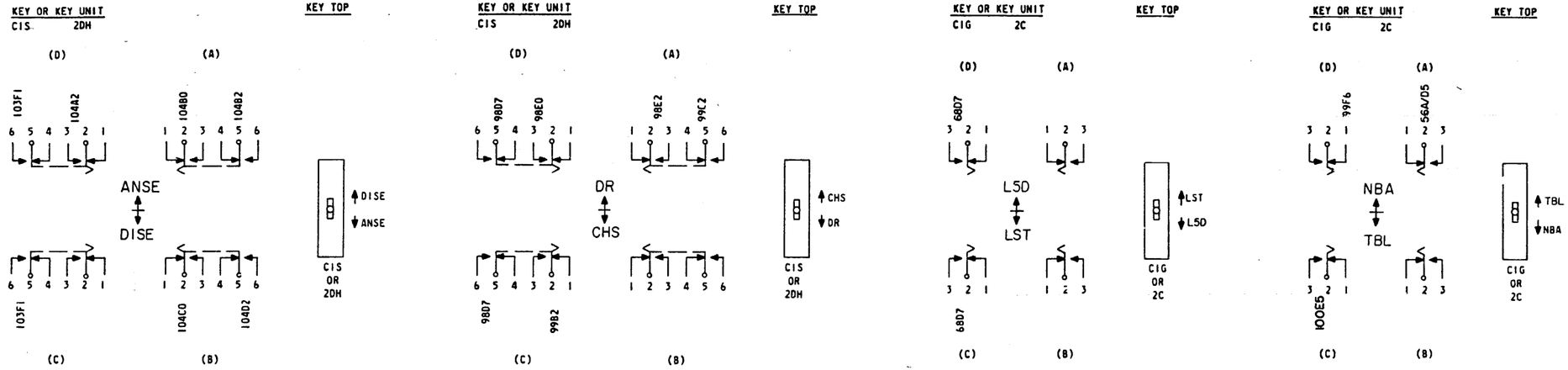
SD-25800-01-C92

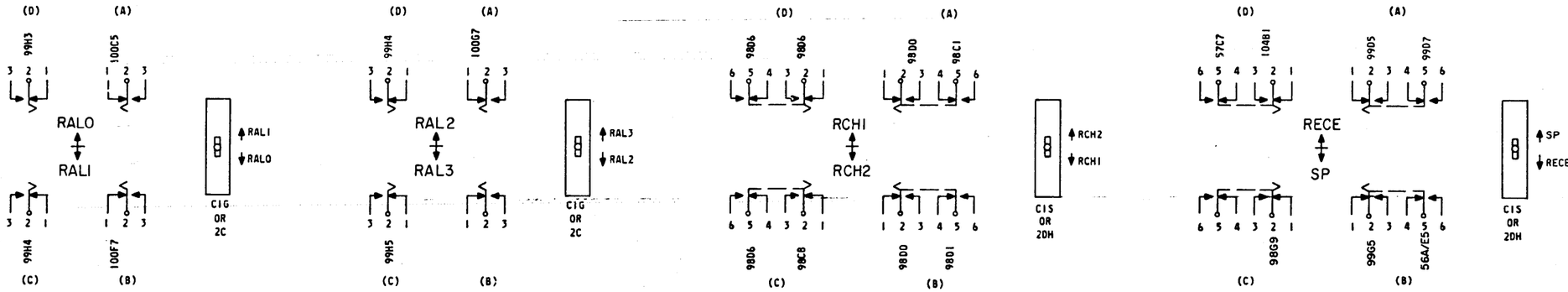
BELL TELEPHONE LABORATORIES INCORPORATED

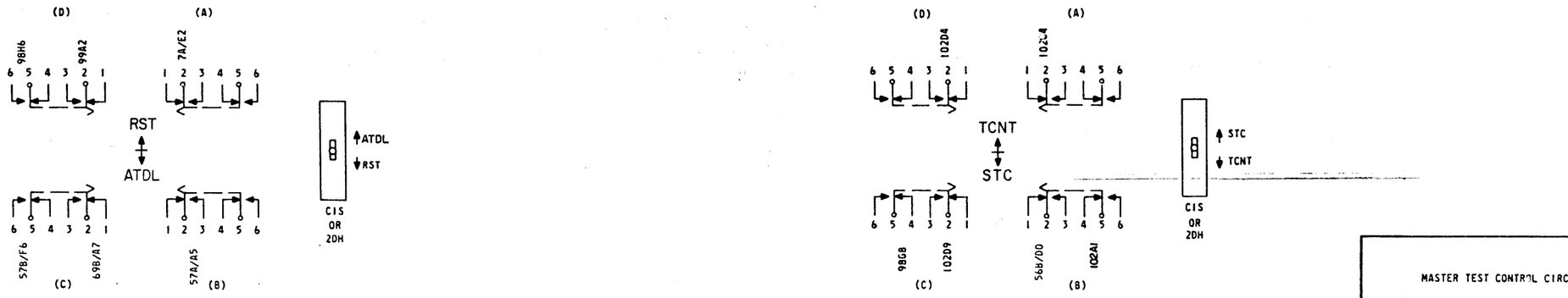
6S

SD-25800-01-C92

PART OF APP FIG 128







DRAWING ISSUE	
67D	98C
78D	
80D	
83A	

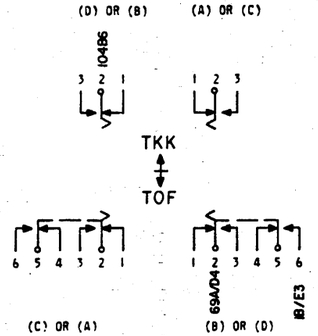
ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C93

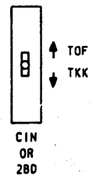
BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF APP FIG 128

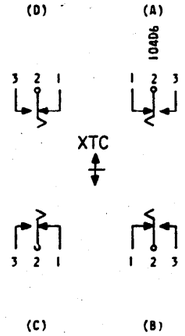
KEY OR KEY UNIT
CIN 28D



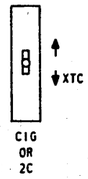
KEY TOP



KEY OR KEY UNIT
CIG 2C



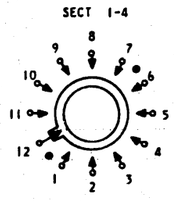
KEY TOP



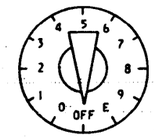
LAMPS

DESIG	LOC	CODE
AEC	10307	24 MI
BAK	99C5	
CBY	98G3	
CS	98G3	
CTR	98G3	
CTV	98G3	
DEC	10308	
DISC	103P8	
DNK	18C/F9	
DRST	98G4	
IEC	10309	
LCP	9905	
MA	103A8	
NRST	9985	
RTBL	9905	
RST	9985	
TCTK	10202	
TCTR	99E5	
TST	98G5	
TTC	103A9	

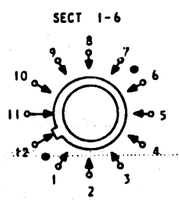
SWITCH
TCU



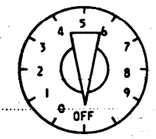
SWITCH TOP



SWITCH
TNT, TNU



SWITCH TOP



DESIG	TCU	TNT	TNU
CODE	KS-14618	KS-14618	KS-14618
LIST	41	51	51
OPTION			
SECT			
1	10285	101F5	101F7
2	10285	101F5	101F7
3	10285	101F0	101F2
4	10285	101F0	101F2
5			
6			

DRAWING ISSUE
670 CB
780 CB
800 CB
83A CB

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)

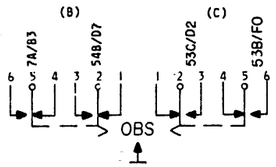
SD-25800-01-C94

BELL TELEPHONE LABORATORIES INCORPORATED

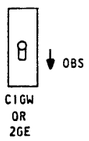
6S

APP FIG 129

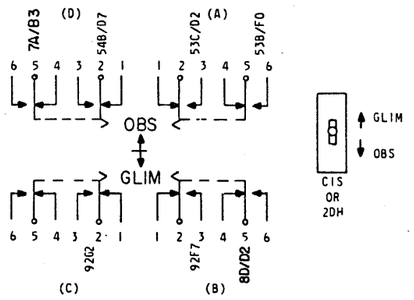
ZQY
KEY OR KEY UNIT
C1GW 2GE



ZQY
KEY TOP



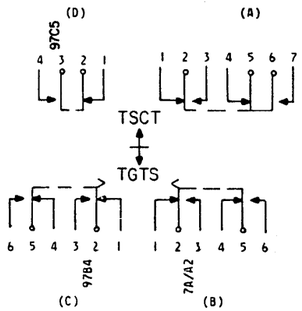
ZQO
KEY OR KEY UNIT
C1S 2DH



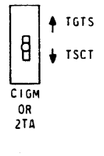
ZQO
KEY TOP

APP FIG 130

KEY OR KEY UNIT
C1GM 2TA



KEY TOP



APP FIG 131

DESIG	RVI			
CODE	AF57			
OPTION				
	CONT ARR	LOC	CONN ARR	LOC
12	M	54A/B6		
11				
10	M	54A/D9		
9				
8	EBM			
7				
6	EBM			
5				
4	M			
3				
2	M			
1				
COIL		54A/A6		

LAMP

DESIG	LOC	CODE
RV	54A/C9	~~2T~~ MI

APP FIG 132

(SEE APP FIG. 161 A&M ONLY)

RELAY

DESIG	TNM			
CODE	AJ202			
OPTION				
	CONT ARR	LOC	CONT ARR	LOC
24	M	102B1		
23	M			
22	M			
21	M	102F7		
20	M	102D7		
19	M	102C6		
18	M	102C6		
17	M	102C6		
16	M	102C6		
15	M	102C6		
14	M	102C6		
13	M	102C6		
12	M	102C6		
11	M	102C6		
10	M	102C6		
9	M	102C6		
8	M	102C6		
7	M	102C6		
6	M	102C6		
5	M	102C6		
4	M	102C6		
3	M	102C6		
2	M	102C6		
1	M	102B6		
COIL		102A2		

APP FIG 133

RELAY

DESIG	LLS							
CODE	AJ12							
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM							
11	EBM							
10	EBM							
9	EBM							
8	EBM							
7	EBM							
6	EBM	40B/C5						
5	EBM	31E2						
4	EBM	48/A4						
3	EBM	7A/A5						
2	EBM	3B/A4						
1	EBM	95A/G0						
COIL		20A/B2						

DRAWING ISSUE	
67D	SCA
68A	FPA
69D	EM
70A	EM
71D	Eng
73D	
74A	
75B	
76D	
78D	
80D	

ISSUE 99A

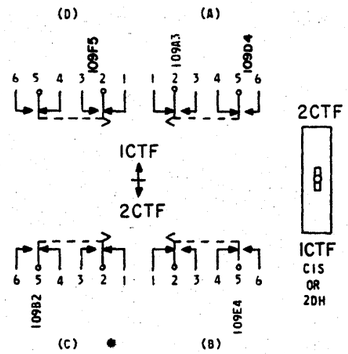
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C95

BELL TELEPHONE LABORATORIES INCORPORATED 6S

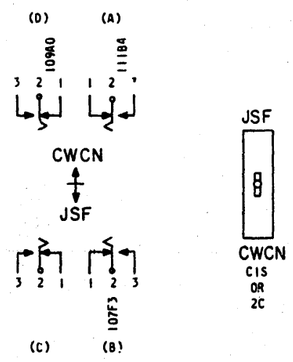
PRINTED IN U.S.A.

PART OF APP FIG 134 (MFR DISC)

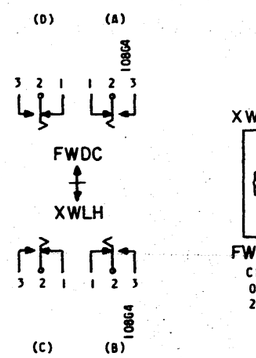
KEY OR KEY UNIT CIS 2DH — KEY TOP



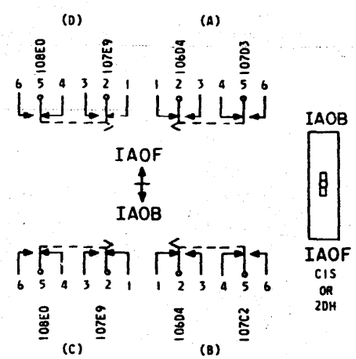
KEY OR KEY UNIT CIG 2C — KEY TOP



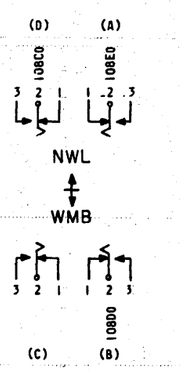
KEY OR KEY UNIT CIG 2C — KEY TOP



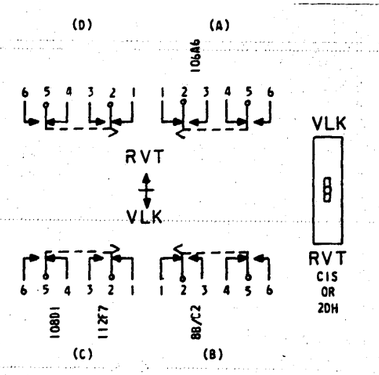
KEY OR KEY UNIT CIS 2DH — KEY TOP



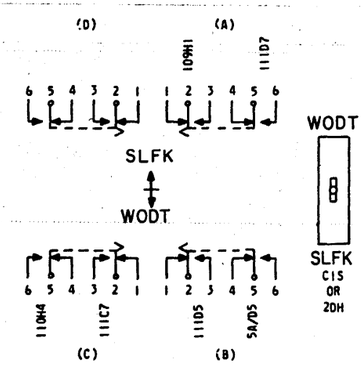
KEY OR KEY UNIT CIG 2C — KEY TOP



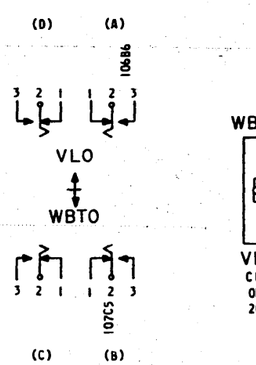
KEY OR KEY UNIT CIS 2DH — KEY TOP



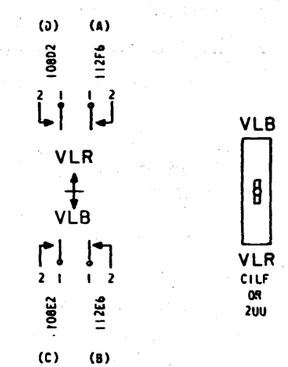
KEY OR KEY UNIT CIS 2DH — KEY TOP



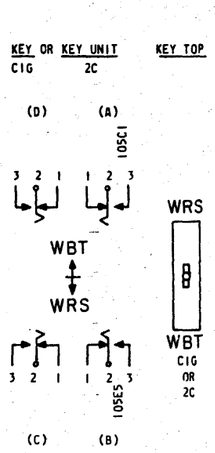
KEY OR KEY UNIT CIG 2C — KEY TOP



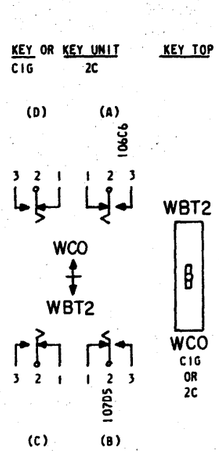
KEY OR KEY UNIT CILF 2UU — KEY TOP



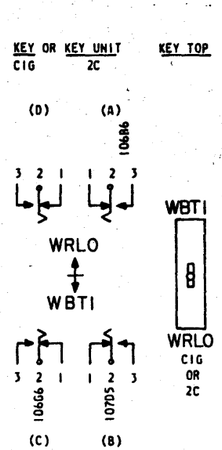
KEY OR KEY UNIT CIG 2C — KEY TOP



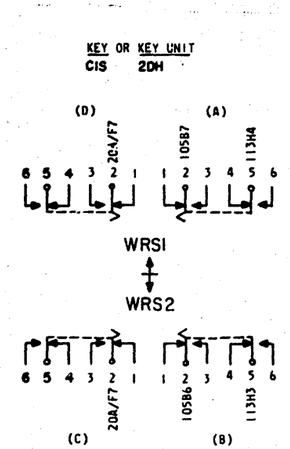
KEY OR KEY UNIT CIG 2C — KEY TOP



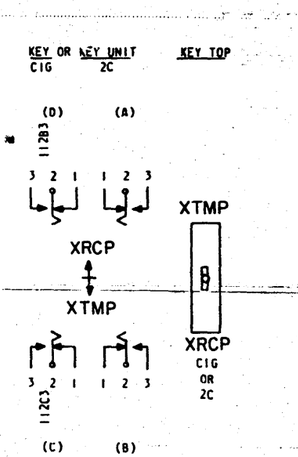
KEY OR KEY UNIT CIG 2C — KEY TOP



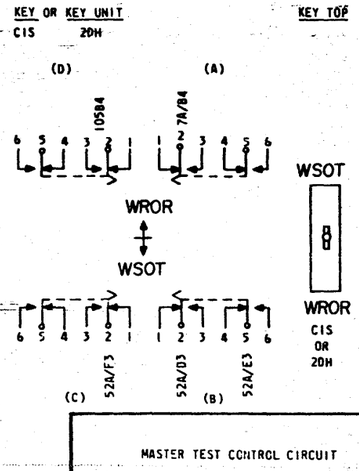
KEY OR KEY UNIT CIS 2DH — KEY TOP



KEY OR KEY UNIT CIG 2C — KEY TOP



KEY OR KEY UNIT CIS 2DH — KEY TOP



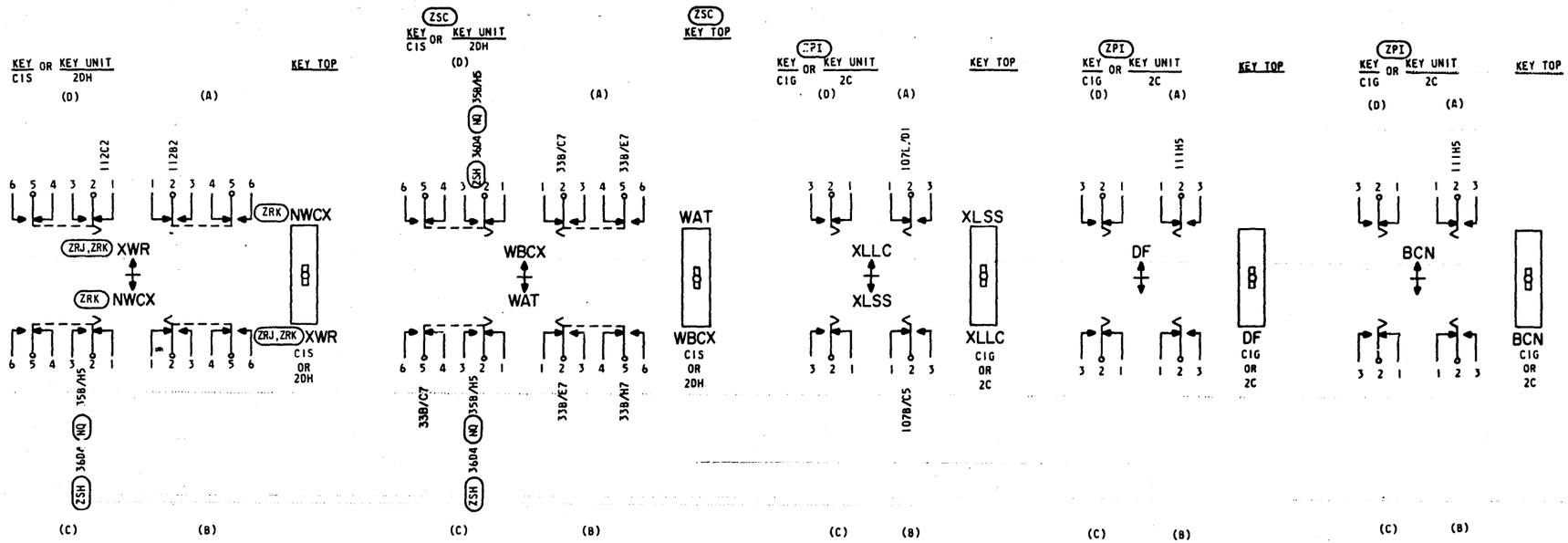
ISSUE 102B

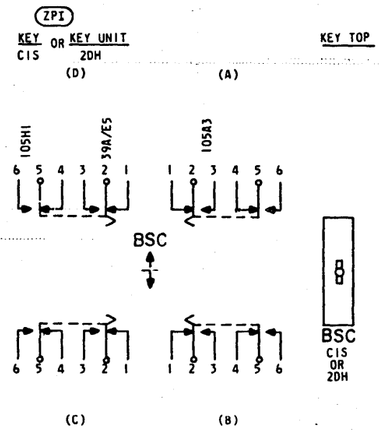
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C96

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C96

PART OF APP FIG 134 (MFR DISC)





DRAWING ISSUE 82D

ISSUE 102B

MASTER TEST CONTROL CIRCUIT ②	SD-25800-01-C97A
BELL TELEPHONE LABORATORIES INCORPORATED	6S

LAMP OPT	DESIG	LOC	CODE
	ICNK	110A3	
	2CNK	110A3	
	CWCN	111B6	
	IAOB	108F8	
	IAOF	108F8	
	JSF1	107C0	
	LPCK	110A1	
	LWLF	110A2	
	LWLP	110A2	24 MI
	OTL	106G2	
	RIW	54A/A7	
	RTIK	114C9	
	RT2K	114D9	
	RUIK	114C9	
	RU2K	114D9	
ZSC	SWAT	107G1	
	TKCK	110A0	
	TTI	106G2	
	TTO	106G2	

LAMP OPT	DESIG	LOC	CODE
	ULF	110A1	
	ULP	110A1	
	VLB	112E8	
	VLBK	112F8	
	VLR	112G8	
	VLRK	112G8	
	WBLK	108F9	
	WBTK	114E9	
	WCK	107C0	24 MI
	WHMO	114A9	
	WHS	106E2	
	WLVF	114C9	
	WLVK	114B9	
	WMB	108E1	
	WMC	109H2	
	WROL	105F5	
	WRSK	114B9	
	WRTL	105G5	
	WTK	106F2	

SWITCH
WCH, WRL

SECT.1
CUTOUT IS ONE POSITION WIDE

SECT.4,5

SECT.2,3

SWITCH TOP

WCH

WRL

SWITCH
WLT, WLU, P

SECT.1-6

SWITCH TOP

WLT, WLU

P

SWITCH
BSTL, WTG

SECT.1-4

SWITCH TOP

BSTL

WTG

SWITCH SECTIONS SHOWN IN OFF POSITION

DESIG	P	WCH	WRL	WLT	WLU	BSTL	WTG	P
CODE	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618	KS-14618
LIST	53	96	96	51	51	41	41	52
OPTION	ZNC					ZPJ	ZPI	ZND
SECTION NO.								
1	32A4	88/C2	88/C3	113H0	113B0	113G2	107B/D1	32A4
2			108D2	113D6	113E8	113G2	107B/D3	51C/F2
3		106C6		113D6	113E8			
4		106C6	108D2	113D7	113D7			
5			108D2	113D7	113D7			
6								

DRAWING NUMBER 82D

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C978

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-C978

PART OF APP FIG 135 (MFR DISC)

RELAY

DESIG	1CNK		2CNK		WBLC				CSTK		CTM1		CTM2		CWCN		VIS		IAOB		DESIG
CODE	AK30				AK30				AJ64		AG18		AG4		AK30				AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	110E3	M				EBM		M	5A/D5					M	107C7	EBM		12
11			EBM		EBM				EBM	110F2	M	110C2					EBM		EBM		11
10			EBM	110B3	EBM				EBM	8B/D5	M	110C3					EBM	110E5	EBM	108F9	10
9			EMB		EMB				EB								EMB	110E3	EBM		9
8			EMB		EMB						M		M	5A/D6			EMB	109A1	EMB	109H7	8
7									M	109F6	B		B						EBM		7
6									EMB	110E1	M		M	110C2					EMB	108C8	6
5	EMB	110E4					EMB	109E5					B		EMB	111C5			EMB		5
4	EMB	109J4					EMB	109E5	EBM	10960	M		M	110C3	EMB				EBM	109H7	4
3	EBM	110B1					EBM		EB						EBM	111B5			EBM		3
2	EBM	109D5					EBM		EBM	111C8	M				EBM				EBM		2
1	M						M		EBM	11108	M				M				EBM		1
COIL		110E4		110E2				10505		110E1		11109		11109		11103		110E5		108C8	COIL

RELAY

DESIG	IAOF		JSF		JSF1		LPCK		LWLF		LWLP		MBC		WBTK				RIW		DESIG
CODE	AJ15		AJ511		AF15		AF15		AJ127		AJ15		AK30						AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM		EM	107E4	EBM	107C0	EBM	110E0	EM	110C3	EBM	10F2			M	114E8			EBM		12
11	EBM		M	107F4	EBM		EBM		M	11082	EBM				EBM				EBM	544/87	11
10	EBM	109F8	M	106D5	EBM	10604	EBM	11081	EBM	111E8	EBM	11082			EBM	11484			EBM		10
9	EBM	108D9			EBM		EBM	11188	M		EBM				EMB	107D5			EBM		9
8	EMB		EBM	107F3	EMB	107G3	EMB		EBM	5A/D6	EMB				EMB				EMB		8
7	EBM				EBM		EBM	5A/D6			EBM								EBM		7
6	EMB	08C8	EMB		EMB	107F2	EMB		EMB		EMB	110E2							EMB	544/C2	6
5	EMB				EMB		EMB		EMB		EMB		EMB	11206					EMB		5
4	EBM		BM	107C1	EBM	107F4	EBM		EBM		EBM	10906	EMB						EBM		4
3	EBM		M	18/F9	EBM		EBM		M	110F0	EBM	109F6	EBM	10801					EBM		3
2	EBM		M	107F2	EBM	107E5	EBM		EBM		EBM		EBM						EBM		2
1	EBM	0E5	M		EBM		EBM		M		EBM		M						EBM		1
COIL		09D8		107E4		107E1		110E0		110E2		110E2		11205		107C5				544/C2	COIL

RELAY

DESIG	RTA1		RTB1		RTA2		RTB2		RUA1		RUB1		RUA2		RUB2		RUK1		RWL		DESIG
CODE	AK30				AK30				AK30				AK30				AJ15		AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	11408			M	11408			M	11408			M	11408			EBM		EBM	10584	12
11	EBM	11401			EBM	11403			EBM	11402			EBM	11404			EBM		EBM		11
10	EBM	114E1			EBM	114E3			EBM	114E2			EBM	114E4			EBM		EBM	11482	10
9	EMB				EMB				EMB				EMB				EBM		EBM	113E6	9
8	EMB	11307			EMB	11306			EMB	11307			EMB	113E8			EMB		EMB		8
7																	EBM		EBM	108H3	7
6																	EMB		EMB		6
5			EMB	11307			EMB	11306			EMB	11307			EMB	113E9	EMB		EMB		5
4			EMB				EMB				EMB				EMB		EBM		EBM	108H1	4
3			EBM	11402			EBM	11404			EBM	11403			EBM	11405	EBM		EBM		3
2			EBM	114E2			EBM	114E4			EBM	114E3			EBM	110E5	EBM		EBM		2
1			M	114C8			M	11408			M	11408			M	11406	EBM	107C8	EBM	107C8	1
COIL		11307		11307		11307		11307		11307		11307		113F8		113F9		107E6		106A2	COIL

RELAY

DESIG	JXW		LXW		SKTM		SLFK		TKCK				TTL12		TTL13		ULF		ULP		DESIG
CODE			AK30		AG18		AJ15		AJ15				AF132		AF132		AJ127		AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M		M	110C2	EBM	10962	EBM	11091			M	148/G4	M	148/G4	EMB	110G2	EBM	110E2	12
11			EBM	108G5	M	110C3	EBM		EBM	11CH5			M	148/G4	M	143/G4	M	11082	EBM		11
10			EBM		M		EBM	109F7	EBM	11080			M	148/G4	M	148/G4	EBM		EBM	10906	10
9			EMB				EBM	109F6	EBM	111C8			M	148/G4	M	148/G4	M	110C2	EBM		9
8			EMB		M		EMB	110F3	EMB	110E0			BM		BM		EBM		EMB		8
7					B		EBM	11005	EBM				M	13A/C5	M	13A/C6			EBM		7
6					M	5A/D6	EMB		EMB	109H5			BM		BM		EMB	109H7	EMB	110E1	6
5	EMB	10G96					EMB		EMB	11104			M	288/E1					EMB		5
4	EMB				M		EBM		EBM				M	148/G4	M	148/G4	EBM		EBM		4
3	EBM						EBM		EBM	10906			M	148/G4	M	148/G4	M	109F7	EBM	11081	3
2	EBM				M		EBM	11108	EBM				M	148/G4	M	148/G4	BM		EBM	11002	2
1	M				M		EBM	109H1	EBM				M	148/G4	M	148/G4	M	109F6	EBM	109F5	1
COIL		108C5		108C5		11109		10962		110E0				1245		1281		110E2		110E1	COIL

RELAY

DESIG	VLB		VLR		VLBK		VLRK		WB		WBH		WBLK		WBT		WBT1		WBT2		DESIG
CODE	AK6				AK6				AJ5		AJ83		AJ15		AF24		AF24		AF24		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM	112E5			BM	11285			EBM		EBM		EBM		M	10581	M	11286	M		12
11	BM				BM				EBM	113H4	EBM	1281	EBM		M	105C1	M	112C6	M		11
10	BM	11285			BM				EBM	11309	EBM		EBM	108F9	M	105F1	M	10601	M	10607	10
9	BM				BM	37A/H4			EBM	348/C4	EBM		EBM		M		M	106A7	M	10607	9
8	BM	112F8			BM	112F8			EBM	39A/F5	EMB	39A/F5	EMB		M		M	106E1	M	10607	8
7									EBM	958/F1	EBM	958/F1	EBM		M	107B/D1	M	10687	M	10607	7
6									EBM	962	EMB	10541	EMB	108C9	M	10501	M	10687	M	10607	6
5			BM	112G8			BM	112G8	EBM	33/A3	EMB		EMB		M		M	106C7	M	10607	5
4			BM				BM	57A/H4	EBM	79H6	EBM		EBM		M	105F1	M	11285	M	10607	4
3			BM	11285			BM		EBM	1285	EBM		EBM		M	105E1	M	106E7	M	10607	3
2			BM				BM		EBM		EBM		EBM		M	105E1	M	106E7	M	10607	2
1			BM	112F5			BM	112C5	EBM	10581	EBM		EBM		M	10501	M	11366	M	10607	1
COIL		112E5		112F5		11285		112C5		105C2		10542		108C9		10582		10502		105E2	COIL

RELAY

DESIG	WBT3		WBT4		WBT5		WBT6						WBT8		WCMA		WCK		WCST		WDC1		DESIG
CODE	AF24		AF24		AF24		AJ15						AF24		AJ15		AJ15		AJ15		AJ15		CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M		M	88/C4	M	106C1	EBM						M		EBM		EBM		EBM	38/A2	EBM	108G1	12
11	M	109F3	M	107F0	M	111C4	EBM						M		EBM		EBM	107C7	EBM	54/D4	EBM	108F8	11
10	M	108C3	M	288/C8	M	112B2	EBM	11004					M	10785	EBM		EBM		EBM		EBM	10787	10
9	M	108C3	M	107F1	M	112B2	EBM						M		EBM		EBM		EBM	8C/B1	EBM	107A/E1	9
8	M	108C3	M	9A/E2	M	112C2	EMB						M		EMB		EMB		EMB	68/E5	EMB	508/07	8
7	M	108C3	M	107F1	M	112C2	EBM						M	20A/E6	EBM	107C1	EBM		EBM	11482	EBM	11482	7
6	M	108C3	M	88/C2	M	11185	EMB						M	113F7	EMB		EMB	107F1	EMB	10581	EMB		6
5	M	108C3	M	88/C2	M	110H4	EMB						M		EMB		EMB		EMB		EMB		5
4	M	108C3	M	88/C3	M	108F4	EBM						M	378/D6	EBM		EBM		EBM		EBM		4
3	M	108C3	M	106A1	M		EBM	8C/C4					M		EBM		EBM	107C0	EBM		EBM		3
2	M	109C3	M	10681	M	105A1	EBM						M	378/D5	EBM		EBM		EBM		EBM		2
1	M	108C3	M		M		EBM						M		EBM	107B/C1	EBM		EBM		EBM		1
COIL		105E2		105F2		105F2		10532						105G2		107E3		107E0		38/A3		107E1	COIL

74A	
75B	
76D	
77A	
78D	
79A	
80D	
81A	
82D	
83A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-098

BELL TELEPHONE LABORATORIES INCORPORATED

E-7422-A-3(8-64)

PART OF APP FIG 135 (MFR DISC)

RELAY

DESIG	WFA		WFAK		WFBK		WFB		WFLG		WLXP		WHMO		WHMT		WHS				DESIG
CODE	AJ15		AK6				AJ15		AK30				AJ15		AJ504		AF82				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	107G7	BM	107B/C3			EBM		M				EBM				EM	1060 2			12
11	EBM	107C3	BM	1116			EBM	107C3	EBM	10584			EBM	108H3	BM		M	11J6			11
10	EBM	107C4	BM				EBM	107C4	EBM				EBM		M		M	113F7			10
9	EBM	108C0	BM	107C7			EBM	108C0	EMB				EBM	11482	BM		M	107B7			9
8	EMB	10604	BM	10784			EMB	10605	EMB				EMB				EBM	11483			8
7	EBM						EBM	110F5					EBM		BM		M	106F1			7
6	EMB	108H7					EMB	108H7					EMB	113A0	B		EMB				6
5	EMB	106E3			BM	10784	EMB	106E3			EMB		EMB		BM		M	114F5			5
4	EBM	108D8			BM	107B7	EBM	108E8			EMB		EBM		M	11406	EBM	11481			4
3	EBM	110E5			BM		EBM	108D8			EBM		EBM	11488	BM		M				3
2	EBM	106D0			BM	1116	EBM	108D0			EBM	105C5	EBM		M		M				2
1	EBM	107E9			BM	107B/C3	EBM	107E9			M		EBM	108F7	BM		M				1
COIL		106E7		37B/E6		37B/E5		106E7		10682		106C2		113A0		114F6		106D2			COIL

RELAY

DESIG	WJH1		WJH2		WLB		WLH1		WLH2		WLK		WLV		WLVI		WLVF		WLVK		DESIG
CODE	AK30				AJ15		AK30				AJ15		AF82		AJ15		AJ15		AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M				EBM	110E0	M	108C4			EBM		EM	10706	EBM	3862	E6M		EBM		12
11	EBM				EBM	10957	EBM	10787			EBM	10703	M	113E6	EBM	64C9	EBM	578/G4	EBM	578/E4	11
10	EBM	108E8			EBM	110B3	EBM	108F8			EBM		M	11481	EBM	54A/E3	EBM		EBM		10
9	EMB				EBM	10984	EMB				EBM		M	107G4	EBM	548/D6	EBM		EBM	113E6	9
8	EMB	108G5			EMB	109E6	EMB				EMB	107E5	EBM	11366	EMB	3182	EMB		EMB		8
7					EBM						EBM		M	11380	EBM	10586	EBM		EBM		7
6					EMB						EMB		EMB	578/F4	EMB		EMB	114C6	EMB	11486	6
5			EMB	10805	EMB				EMB	108D5	EMB		M	88/C4	EMB		EMB		EMB		5
4			EMB		EBM				EMB		EBM	108C1	EBM	108G0	EBM	52B/G5	EBM		EBM		4
3			EBM		EBM				EBM		EBM		M	10705	EBM		EBM	114C8	EBM	11498	3
2			EBM		EBM				EBM		EBM		M	105F5	EBM		EBM	108F7	EBM	108F7	2
1			M		EBM	107B9	M		M		EBM	107E2	M	107C4	EBM		EBM	108G3	EBM	108G3	1
COIL		108F5		108F5		1111D5		108F4		108F4				105C2		105F5		114C6		11486	COIL

RELAY

DESIG	WMB				WMT		WMTI		WRS		WRSK		WRT		WTH1		WTH2		WTK		DESIG
CODE	AM1				AF82		AJ15		AJ5		AJ58		AJ15		AK30				AJ15		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	108F1			EM	88/C3	EBM	110H5	EBM	105D1	EM	105C5	EBM		M	110E3			EBM		12
11	EBM	108D1			M	10707	EBM	110G4	EBM	107D3	B		EBM		EBM				EBM		11
10	EBM	108D2			M	10704	EBM	110F3	EBM	113H0	M	113H6	EBM		EBM	108E8			EBM		10
9	EMB				M	107C6	EBM	88/B5	EBM	108F3	BM	114C1	EBM		EMB				EBM		9
8	EMB	108F1			EBM	108F3	EMB	105D3	EBM				EMB		EMB	108G6			EMB		8
7					M	107F5	EBM	110F1	EBM	108H3	B		EBM						EBM	106F1	7
6					EMB	105E5	EMB	110F5	EBM	114F5			EMB						EMB	106E2	6
5			EMB		M	11206	EMB		EBM		B		EMB				EMB	108H6	EMB		5
4			EMB		EBM	10788	EBM	109A7	EBM		M	114F5	EBM				EMB		EBM		4
3			EBM		M	107C4	EBM	109C7	EBM	113H4	BM		EBM				EBM		EBM		3
2			EBM		M	10788	EBM	109E7	EBM	107E8	M	11488	EBM				EBM		EBM		2
1			EBM		M	107C9	EBM	109E6	EBM	107D8	M	11482	EBM	107C8			M		EBM	107D8	1
COIL		108G1				10582		105E5		105E5		105C5		108G0		108F6		108F6		106E2	COIL

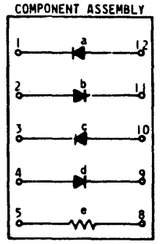
RELAY

DESIG	WTKB		WTL		WTLH1		WTLH2		WTRP		W8NT		KTN7		SWAT		WT				DESIG
CODE	AJ15		AJ15		AK30				AJ15		AJ15		AF24		AJ15		AK30				CODE
OPTION									ZRT						ZSD						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	110E0	EBM		M	105F5			EBM		EBM	9F2	M		EBM				M		12
11	EBM	11104	EBM	107C7	EBM	20A/G6			EBM		EBM		M		EBM				EBM		11
10	EBM	109H6	EBM		EBM	50B/D0			EBM		EBM	23A/G2	M		EBM				EBM		10
9	EBM	109A4	EBM		EMB	7A/65			EBM		EBM		M		EBM				EMB		9
8	EMB	109C6	EMB		EMB	10584			EMB	5C/G0	EMB	23A/G0	M		EMB				EMB		8
7	EBM		EBM						EBM	5B/F4	EBM	26A/F6	M		EBM				EMB		7
6	EMB	109D2	EMB						EMB		EMB		M	398/D0	EBM						6
5	EMB		EMB				EMB		EMB		EMB		M	398/D5	EMB	107C5					5
4	EBM		EBM				EMB		EBM	5C/A9	EBM		M	398/D2	EMB				EMB		4
3	EBM		EBM				EBM		EBM	5C/A6	EBM	25F4	M	398/C1	EBM	107C1			EBM		3
2	EBM		EBM				EBM		EBM	5C/A4	EBM		M	398/G4	EBM				EBM	40A/G2	2
1	EBM		EBM		M	105G5	EBM	105G5	EBM	5C/B1	EBM	105H1	M	398/G2	EBM				M		1
COIL		111E5		107E2		105A7		105A7		5C/D0		9F5		398/G1		107C5				40A/H3	COIL

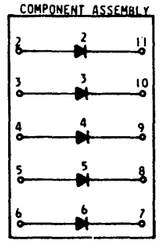
RELAY

DESIG	BSC		BCNK		BSMT		BSNT		KTN8		KTN8A		LSS		BSTK						DESIG
CODE	AK30				AJ15		AJ15		AF24		AF24		AK30								CODE
OPTION	ZPI		ZPI		ZPI		ZPI		ZPI		ZPI		ZPI		ZPI						OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M		EBM		EBM		M		M				M						12
11			EBM	11165	EBM	11165	EBM	20A/E1	M	39B/H1	M	39B/H1			EBM						11
10			EBM		EBM	107A/F6	EBM	20B/D1	M	39B/G2	M	39B/G3			EBM						10
9			EMB		EBM	111A4	EBM	20B/B6	M	39B/G4	M	39B/G4			EMB	50B/C0					9
8			EMB		EMB		EMB	20B/B7	M	39B/D1	M	39B/C1			EMB	95B/E2					8
7					EBM	111H5	EBM	22A/G6	M	39B/C2	M	39B/D2									7
6					EMB		EMB	39A/E5	M	39B/C6	M	39B/D6									6
3	EMB				EBM		EBM	22B/G7	M	39B/C8	M	39B/D8	EMB								5
4	EMB				EBM		EBM	23B/G0	M		M		EMB								4
3	EBM				EBM		EBM	24B/E0	M		M		EBM								3
2	EBM				EBM		EBM	26A/G5	M		M		EBM								2
1	M	107B/C2			EBM		EBM	95B/D2	M		M		M	107B/D4							1
COIL		107B/C1		111H5		105A3		105H1		39A/D5		39A/D6		107A/E6		105H1					COIL

COMPONENT ASSEMBLY



COMPONENT ASSEMBLY



DESIG	CAQ			
CODE	ED-94823-( ),G635			
OPTION				
COMPONENT		DESIG	LOC	CODE
DIODE	a	WDC2	108D4	426AD
	b	WDC1	108D4	
	c	WDCO	108E4	
	d	LB	109E3	446F
RESISTOR	e	FWDC	108E4	KS-19152,L1,30

DESIG	CA2			
CODE	ED-94823-( ),G217			
OPTION				
COMPONENT		DESIG	LOC	CODE
DIODE	2	WROR	20A/F6	446F
	3	ULF	110E1	
	4	LWLF	110E2	
	5			
	6			

LAMP

	DESIG	LOC	CODE
	WL	113F7	13J(RES)
	WM	107F8	
(ZPJ)	BST	113H3	

RESISTOR

	DESIG	LOC	CODE
(ZPI)	LSK	107B/C4	18BU
	TSK	107D4	19LA
	VLR	108E2	19TL
[2]	VLS1,2	108C2	19PJ
	WCF	110F2	19DY
	WRSK	105C5	18HA
	WT1	10583	18AG
	WT2	10583	18CR

DRAWING ISSUE

71D	2
73D	
74A	
75B	
76D	
77A	
78D	
79A	
80D	
81A	
82D	
83A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C99

BELL TELEPHONE LABORATORIES INCORPORATED

6S

E-7422-A-3(8-64)

APP FIG 136 (MFR DISC)

RELAY

DESIG	WL--																DESIG
CODE	AF24																CODE
OPTION																	OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	20A/B7															12
11	M	105D6															11
10	M	105C7															10
9	M	105B8															9
8	M	113GO															8
7	M	113GO															7
6	M	113GO															6
5	M	113GO															5
4	M	113GO															4
3	M	113GO															3
2	M	113GO															2
1	M	113GO															1
COIL		113H8															COIL

DIODE

DESIG	LOC	CODE
WL--	*113G8	446F

APP FIG 137 (A&M ONLY)

RELAY

DESIG	AIC	AIC1	AILI	AIC2	AIC3	CKD											DESIG
CODE	AJ15	AK30		AJ15	AJ15	AG28											CODE
OPTION																	OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	3102			M	95A/G3	EBM	115F6	EBM		M						12
11	EBM	48C/D6			EBM	95B/B0	EBM	115H5	EBM	115D8	M						11
10	EBM	8D/G2			EBM	115G3	EBM	115D5	EBM	54A/D1	M						10
9	EBM	54A/F3			EMB	115F4	EBM	115D5	EBM	44B/E5	M						9
8	EMB	26A/G4			EMB	48C/D6	EMB	115D5	EMB	44B/C5	EBM	115D6					8
7	EBM	115F1					EBM	115D5	EBM	44B/E1							7
6	EMB	48C/G4					EMB	115D5	EMB		EBM						6
5	EMB	48C/F4	EMB	115C2			EMB	115D5	EMB	53B/F4							5
4	EBM	1A/C0	EMB	115C2			EBM	115D5	EBM	57B/B2	EBM						4
3	EBM	115F3	EBM	115C2			EBM	115D5	EBM		M						3
2	EBM	115D7	EBM	115G6			EBM	115D5	EBM		M						2
1	EBM	20A/D2	M	115E3			EBM	115D5	EBM	57A/G2	M						1
COIL		115E0		115E0		115E3		115F3		115D7		115E5					COIL

DIODES

DESIG	LOC	CODE
AIC	115C7	446F
AIC1	54A/C1	446F
AIC2	115G8	446F

DRAWING ISSUE

75B
76D
77A
78D
79A
80D
81A
83A

APP FIG 138

LAMP

	DESIG	LOC	CODE
	KR	18/A8	2Y MI
	STT	4A/A9	2Y MI
(ZQA)	ARET	5A/A3	2Y MI
(ZQA)	PG	5A/B9	2Y MI
(ZQA)	PRB	5A/A9	2Y MI

APP FIG 139 (MFR DISC)

RELAY

DESIG	WR(00-39)																DESIG
CODE	AF24																CODE
OPTION																	OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	23A/G9															12
11	M																11
10	M																10
9	M																9
8	M																8
7	M	24A/G3															7
6	M	23A/G9															6
5	M	23A/G9															5
4	M	25G2															4
3	M	26A/E7															3
2	M	24A/G3															2
1	M																1
COIL		20A/D7															COIL

DIODE

DESIG	LOC	CODE
WR00-39	20A/F6	446F

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-C100
BELL TELEPHONE LABORATORIES INCORPORATED	SHEET 65

APP FIG 140

RELAY

DESIG CODE OPTION	RTFA AK4 CONT ARR	RTFA AK4 LOC	RTFB AK4 CONT ARR	RTFB AK4 LOC	RTFC AK 26 CONT ARR	RTFC AK 26 LOC	RTFD AK 26 CONT ARR	RTFD AK 26 LOC	DESIG CODE OPTION
12	M	118/F8			M	10A/E3			12
11	EBM				B				11
10	EBM				BM				10
9	EMB				B				9
8	EMB				M	118/D8			8
7									7
6									6
5			EMB				M		5
4			EMB	118/F8			BM	118/E6	4
3			EBM				B	118/G7	3
2			EBM				BM		2
1			M				M	118/E6	1
COIL		10A/A2		118/E8		118/E8		118/E8	COIL

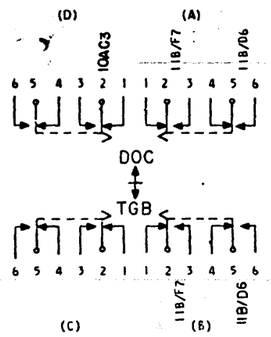
RELAY

DESIG CODE OPTION																					DESIG CODE OPTION
12																					12
11																					11
10																					10
9																					9
8																					8
7																					7
6																					6
5																					5
4																					4
3																					3
2																					2
1																					1
COIL																					COIL

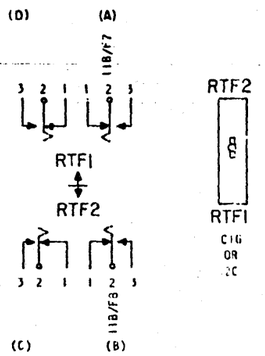
DIODE

OPT	DESIG	LOC	CODE
	RTF	118/G7	446F

KEY OR KEY UNIT CIS 20H — KEY TOP

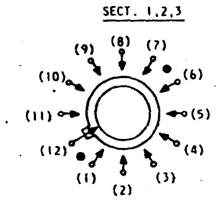


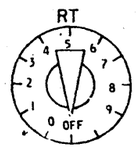
KEY CR KEY UNIT CIG 2C — KEY TOP



SWITCH RT — SWITCHTOP

SECT. 1,2,3





SWITCH SECTIONS ARE SHOWN IN OFF POSITION

DESIG	RT	
CODE	KS-14618,L40	
OPTION		
SECT NO.	TERM.	LOC
1	1-10,12	118/D7
2	1-10,12	118/D7
3	1-10,12	118/D7

SD-25800-01-C101

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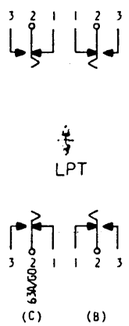
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C101

BELL TELEPHONE LABORATORIES INCORPORATED 6S

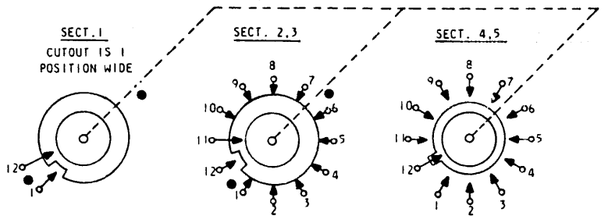
APP FIG 143

KEY CIG (D) OR KEY UNIT 2C (A)

KEY TOP



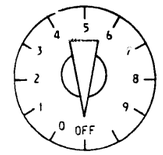
SWITCH
LP



(SWITCH SECTIONS SHOWN IN "OFF" POSITION)

SWITCH		
DESIG	LP	
CODE	KS-14618,L96	
OPTION		
SECT. NO.	TERM.	LOC
1	1,12	63A/E1
2	1-10,12	63A/F1
3	1-8,12	63A/F1
4	1-10,12	63A/G1
5	1-8,12	63A/H1

SWITCH TOP
LP



APP FIG 144 (A&M ONLY)

KEY CIG (D) OR KEY UNIT 2C (A)

KEY TOP

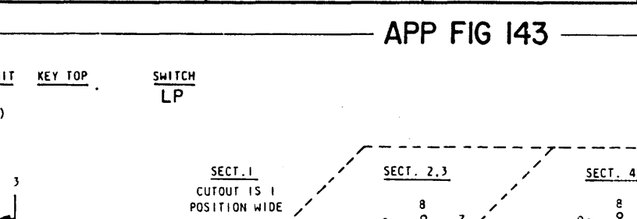
KEY CIG (D) OR KEY UNIT 2C (A)

KEY TOP

KEY CIG (D) OR KEY UNIT 2C (A)

KEY TOP

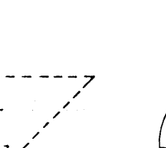
SWITCH
AIL,AIS



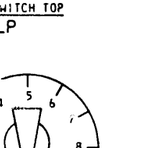
SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	AIL		AIS	
CODE	KS-14618,L64		KS-14618,L64	
OPTION				
SECT. NO.	TERM.	LOC	TERM.	LOC
1	1,12	115D3	1,12	115D1
2	1-10,12	115E4		
3	1-11	115E4	1-4,11	115D2

SWITCH TOP
AIL



SWITCH TOP
AIS



LAMPS

DESIG	LOC	CODE
MBF	115G4	27 M1

DRAWING ISSUE
76D
77A
79A
81A

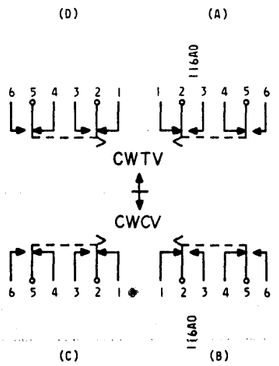
ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C102

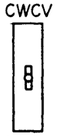
BELL TELEPHONE LABORATORIES INCORPORATED 6S

APP FIG 145

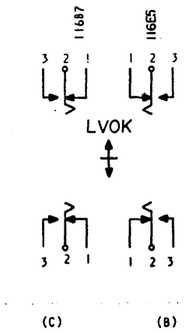
KEY OR CIS — KEY UNIT 2DH



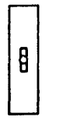
KEY TOP



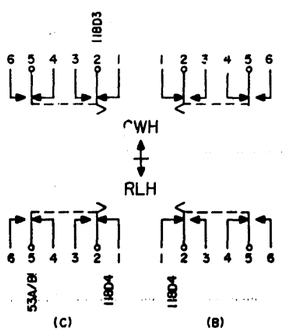
KEY OR CIG — KEY UNIT 2C



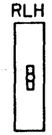
KEY TOP



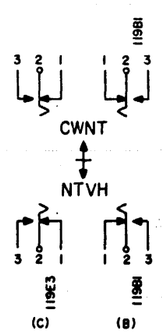
KEY OR CIS — KEY UNIT 2DH



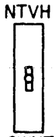
KEYTOP



KEY OR CIG — KEY UNIT 2C



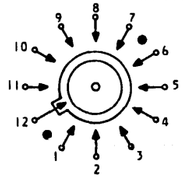
KEYTOP



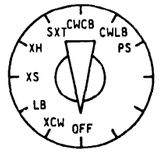
LAMP DESIG	LOC	CODE
CRL	116E4	2# M1 (RED)
CWH	116H1	
CWK	116E1	
CWL	116D1	
CWSP	116G1	
CWT	11701	
CWTH	11604	
LOK	116E4	2# M1
LVO	116F1	
CNTT	11902	
NCW	116E1	
NCWC	116F1	
NTCW	11982	
NTV8	119C2	
RLH	116G1	
CNTT	11902	

SWITCH — CW

SECT. 1-3



SWITCH TOP — CW

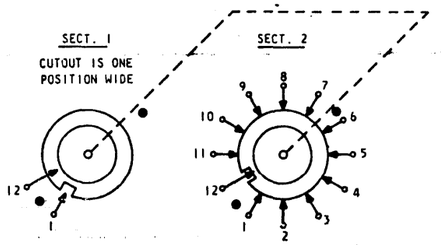


SWITCH — CWC

SECT. 1

CUTOUT IS ONE POSITION WIDE

SECT. 2



SWITCH TOP — CWC

SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	CW		CWC					
CODE	KS-14618,L40		KS-14618,L100					
OPTION								
SECT. NO.	TERM.	LOC	TERM.	LOC				
1	1-8,12	117F4	1,12	117F1				
2	1-8,12	117F4	1-11,12	117F1				
3								
4								

DRAWING ISSUE: 76D, 78D, 80D, 83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-C103

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SD-25800-01-C103

APP FIG 146

RELAY

DESIG	CWI		CW2		CWCV		CWDS		CWSP		CWH		CWHI		CWK		CWKR		CWRL		DESIG
CODE	AF83		AJ83		AJ83		AK30				AJ15		AJ15		AJ15		AK30				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	11760	EBM		EBM				M		EBM		EBM		EBM		M				12
11	M	248/G1	EBM	54A/E3	EBM				EBM		EBM		EBM		EBM	18/G9	EBM	11686			11
10	M	11980	EBM		EBM				EBM	116H0	EBM	3B/D5	EBM		EBM		EBM				10
9	M	95A/G1	EBM		EBM				EMB		EBM	11768	EBM	117G9	EBM		EMB	18/A5			9
8	M	1A/D1	EMB		EMB	117C7			EMB	117D3	EMB	1B/B3	EMB		EMB		EMB				8
7	M		EBM	2A/F2	EBM	11686					EBM	548/H6	EBM		EBM						7
6	M	11686	EMB		EMB						EMB	11688	EMB		EMB	117C8					6
5	M		EMB		EMB		EMB				EMB	116C7	EMB	116E8	EMB				EMB		5
4	M	116C7	EBM	3B/F5	EBM		EMB				EBM		EBM	116E8	EBM				EMB	116A7	4
3	M	116A6	EBM		EBM	11680	EBM	11801			EBM		EBM		EBM	11801			EBM	118/A3	3
2	M	116C4	EBM	50A/G3	EBM	116D5	EBM				EBM	1B/B5	EBM	116H0	EBM	116E0			EBM	116F3	2
1	M	116C1	EBM	50A/G2	EBM		M				EBM		EBM	1B/B4	EBM	118E4			M	116C7	1
COIL		11681		11671		116A1		116C5		117D3		11687		117F8		117D8		1B/A5		116C7	COIL

RELAY

DESIG	CWL		NCW		CWLT		CWM1		CWM2		CWOR		CWTH		CWTL		CWTV				DESIG
CODE	AK30				AJ15		AF24		AJ15		AJ15		AJ15		AJ15		AJ83				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	11708			EBM		M	22B/H7	EBM		EBM	48A/C8	EBM		EBM		EBM	48A/C8			12
11	EBM				EBM		M	117C8	EBM		EBM	116A7	EBM		EBM		EBM				11
10	EBM	116D0			EBM		M	117C9	EBM	117D7	EBM	118E4	EBM	116D3	EBM		EBM	48A/A6			10
9	EMB				EBM		M	117C7	EBM		EBM	48A/D9	EBM		EBM	11687	EBM	48A/D8			9
8	EMB				EMB		M	117C8	EMB		EMB		EMB		EMB		EMB	117C6			8
7					EBM		M	117G4	EBM	208/C6	EBM	2A/E2	EBM		EBM	378/E5	EBM	64E9			7
6					EMB	3B/C5	M	22A/H6	EMB	25C7	EMB	2A/B3	EMB	116C4	EMB	3B/C5	EMB				6
5			EMB	1B/G9	EMB		M	11706	EMB	25C7	EMB	208/C6	EMB		EMB		EMB				5
4			EMB	57A/H5	EBM	3B/E5	M		EBM	25C7	EBM	118E4	EBM	48C/F0	EBM	3B/D5	EBM	3B/D5			4
3			EBM		EBM		M	52B/D1	EBM	25C7	EBM	11803	EBM	48C/G1	EBM	44B/D6	EBM	11680			3
2			EBM	116F0	EBM	11684	M	119G4	EBM	25C7	EBM	118E4	EBM	48C/G2	EBM	44B/D4	EBM	548/H6			2
1			M	11709	EBM		M	119F4	EBM	51A/D2	EBM	118E3	EBM	48C/D5	EBM	44B/C2	EBM	11648			1
COIL		11708		11709		3B/C5		116C1		116C1		2A/B3		11685		3B/C5		11641			COIL

RELAY

DESIG	LOK		NCWC		LVO		RLH		CWNT		NTCW		NTVB		CNTT						DESIG
CODE	AK30				AK30				AJ15		AK6				AK30						CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	118D1					M	11708	EBM	119F2			BM	119F3	M	119D0					12
11	EBM						EBM		EBM				BM		EBM						11
10	EBM	116E3					EBM	116G0	EBM				BM	119C0	EBM						10
9	EMB						EMB	118C4	EBM	119D3			BM		EMB	119F3					9
8	EMB	118F2					EMB	118D4	EMB				BM	57A/H5	EMB						8
7									EBM												7
6									EMB												6
5			EMB		EMB				EMB		BM	57A/H6					EMB				5
4			EMB		EMB				EBM	64C8	BM						EMB				4
3			EBM		EBM				EBM	64D9	BM	119C0					EBM				3
2			EBM		EBM	116G0			EBM	57A/H4	BM						EBM				2
1			M	11702	M	11703			EBM	548/G6	BM	119G3					M				1
COIL		11800		11702		11703		11708		11982		119G3		119F3		119F3					COIL

RELAY

DESIG																					DESIG
CODE																					CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12																					12
11																					11
10																					10
9																					9
8																					8
7																					7
6																					6
5																					5
4																					4
3																					3
2																					2
1																					1
COIL																					COIL

LAMP

DESIG	LOG	CODE
CW	117H0	13J(RES)

RESISTOR

DESIG	LOG	CODE
CWH	117G4	18CP
XCW	117G8	198T

DRAWING ISSUE
780
900
83A

ISSUE
99A

MASTER TEST CONTROL CIRCUIT (2)

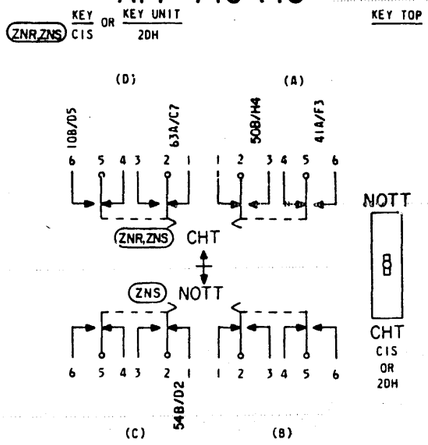
SD-25800-01-C104

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET NO. 65

E-7422-A-3(8-64)

APP FIG 148



APP FIG 149

RELAY

DESIG	CHT		TOC		IAOC																DESIG
CODE	AF24		AK22																		CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	52B/A6	EBM																		12
11	M	63A/A4	EBM																		11
10	M	50B/F4	EBM																		10
9	M	9D5	EMB																		9
8	M	63A/D6	EMB	41A/C2																	8
7	M	52B/D6																			7
6	M	95A/G1																			6
5	M	63A/F3			EMB																5
4	M	63A/G3			EMB																4
3	M	50B/H4			EBM	28B/E1															3
2	M	63A/E8			EBM	52B/F5															2
1	M	63A/E8			EBM	52B/D3															1
COIL		50B/G4		37B/E8		52B/A6															COIL

LAMP

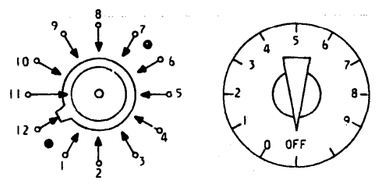
DESIG	LOC	CODE
CHT	63A/E7	13J(RES)

APP FIG 150

SWITCH
CSS

SWITCH TOP
CSS

SECT 1-6



(SWITCH SECTIONS SHOWN IN "OFF" POSITION)

SWITCH DESIG	CSS	
CODE	KS-14618,L51	
OPTION		
SECT. NO.	TERM.	LOC
1	1-11	121E0
2	1-11	121E1
3	1-11	121E2
4		
5		
6		

LAMP

DESIG	LOC	CODE
CSI	121F1	24 MI

DRAWING ISSUE
76D
78D

ISSUE
99A

SD-25800-01-C105

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-C105

APP FIG. 151

RELAY

DESIG	ADD0,2,4,6,8		ADD1,3,5,7,9		AGA		AGB		AGC												DESIG
CODE	[5] AK30				AF83		AF83		AF24												CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	90C7			M	8C/F6	M		M												12
11	EBM				M	8C/F6	M		M												11
10	EBM	90H0			M	8C/F6	M	90G1	M	90G7											10
9	EMB				M	8C/F6	M	90G1	M	90G7											9
8	EMB	90F8			M	8C/F6	M	90G1	M	90G7											8
7					M	8C/F6	M	90G1	M	90G7											7
6					M	8C/F6	M	90G1	M	90G7											6
5			EMB	90G8	M	8C/F6	M	90G1	M	90G7											5
4			EMB		M	8C/F6	M	90G1	M	90G7											4
3			EBM	90H0	M	8C/F6	M	90G1	M	90G7											3
2			EBM		M	8C/F6	M	90G1	M	90G7											2
1			M	90C7	M	8C/F6	M	90G1	M	90G7											1
COIL		90F8		90G8		90C2		90C2		90D2											COIL

LAMP

OPT	DESIG	LOC	CODE
	[10]ADD0-9	90C7	~~2Y~~ MI

APP FIG. 152

RELAY

DESIG	AGCM-																				DESIG
CODE	AJ512																				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	BM																				12
11	BM	90H2																			11
10	BM	90G2																			10
9	BM	90G2																			9
8	BM	90G2																			8
7	BM	90G2																			7
6	BM	90G2																			6
5	BM	90G2																			5
4	BM	90G2																			4
3	BM	90G2																			3
2	BM	90G2																			2
1	BM	90G2																			1
COIL		8C/F7																			COIL

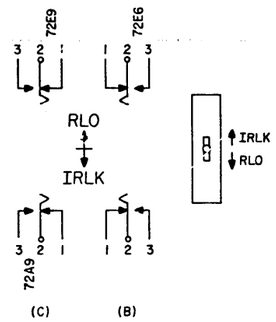
APP FIG. 153

RELAY

DESIG			IRL		IRPT																DESIG
CODE	AK30				AJ15																CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M				EBM	72C3															12
11	EBM				EBM	72C4															11
10	EBM				EBM	72B8															10
9	EMB				EBM	5B80															9
8	EMB				EMB																8
7					EBM																7
6					EMB																6
5			EMB	72E9	EMB																5
4			EMB		EBM	72D8															4
3			EBM	72D0	EBM	72D5															3
2			EBM	5B80	EBM	72C5															2
1			M	72A8	EBM	72D5															1
COIL				72D9		72C2															COIL

KEY CIG OR KEY UNIT 2C

KEYTOP



LAMP

OPT	DESIG	LOC	CODE
	IRL	72A8	~~2Y~~ MI

APP FIG 154

RELAY

DESIG	AREP		TTRP		LVP		ATTP		MTCP		PGA		PGB		PR		LIP				DESIG
CODE	AK22				AK22				AJ15		AF83		AJ15		AK22						CODE
OPTION																	ZMG				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	5D/F4			EBM	5D/F6			EBM	5A/D9	M	5D/C8	EBM	5D/F2	EBM	6B/C8					12
11	EBM	5D/B4			EBM	5D/B6			EBM	5D/B8	M	5D/G3	EBM	5D/F3	EBM	5A/A0					11
10	EBM	5D/D7			EBM	5D/D7			EBM	5D/D8	M	5D/G2	EBM	5D/F4	EBM	102B0					10
9	EMB				EMB				EBM	5A/D8	M	5D/G4	EBM	5D/F5	EMB	5A/D9					9
8	EMB				EMB				EMB		M	5D/G5	EMB	5D/F6	EMB						8
7									EBM		M	5D/G6	EBM	5D/F1							7
6									EMB	69B/A3	M	5D/G1	EMB	5D/B9							6
5			EMB				EMB		EMB	69A/C0	M	5A/D9	EMB	5D/F0			EMB				5
4			EMB				EMB		EBM	6B/B9	M	5D/G1	EBM				EMB				4
3			EBM	5D/D7			EBM	5D/D7	EBM	19H3	M		EBM				EBM	5D/D7			3
2			EBM	5D/B5			EBM	5D/B8	EBM	5A/C6	M		EBM	5A/C8			EBM	5D/B1			2
1			EBM	5D/F5			EBM	5D/F1	EBM		M		EBM	5A/B8			EBM	5D/F1			1
COIL		5D/E4		5D/E5		5D/E6		5D/E1		5A/C9		5D/C7		5D/C8		5A/D9		5D/E0			COIL

DESIG	REP		EPR		ROTP		WTRP														DESIG
CODE	AK22				AK22																CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	6B/C8			EBM	5D/F2															12
11	EBM	5A/D9			EBM	5D/C2															11
10	EBM	1B/B6			EBM	5D/D8															10
9	EMB	6B/B8			EMB																9
8	EMB				EMB																8
7																					7
6																					6
5			EMB	5A/D8			EMB														5
4			EMB	7A/G1			EMB														4
3			EBM				EBM	5D/D8													3
2			EBM				EBM	5D/B3													2
1			EBM				EBM	5D/F3													1
COIL		6B/A9		5A/C9		5D/E2		5D/E3													COIL

DRAWING ISSUE

78D	
80B	
82D	

ISSUE 98B

SD-25800-01-C106

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C106

BELL TELEPHONE LABORATORIES INCORPORATED 6S

APP FIG. 155 (A8M ONLY)

RELAYS

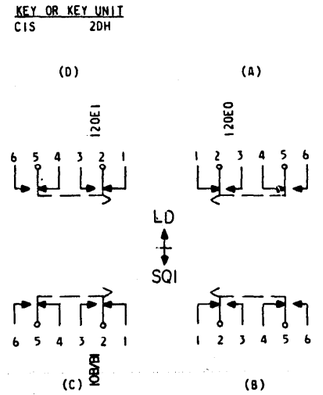
DESIG	IFL		SNR					
CODE	AK30							
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			M	120E3				
11			EBM	42B/F1				
10			EBM	42A/C8				
9			EMB	120E3				
8			EMB					
7								
6								
5	EMB							
4	EMB							
3	EBM	42A/C9						
2	EBM	42B/F1						
1	M	120E2						
COIL		12001		120E3				

DIODES

OPT	DESIG	LOC	CODE
	J1	108/C2	446F
	J4	108/B2	446F

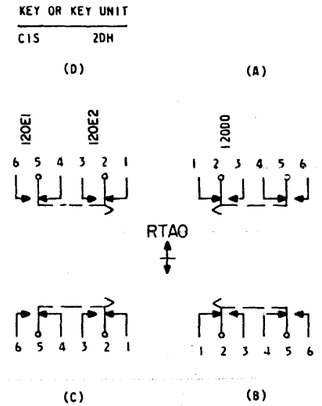
KEY OR KEY UNIT — CIS 2DH

KEYTOP



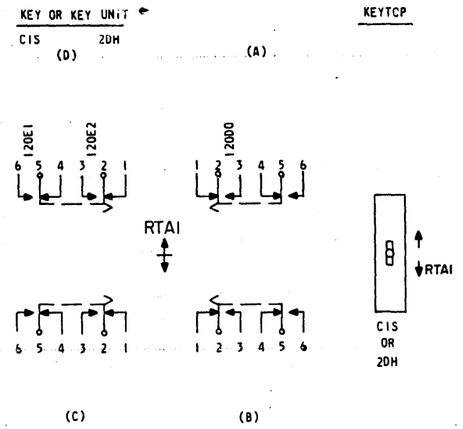
KEY OR KEY UNIT — CIS 2DH

KEYTOP



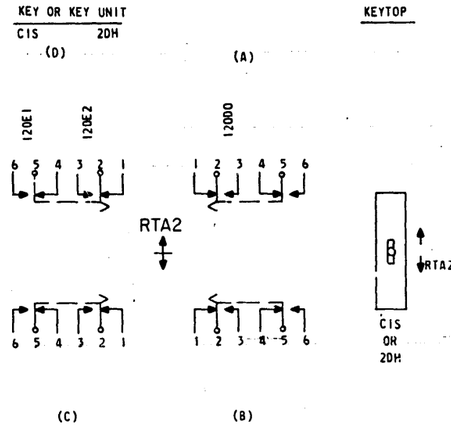
KEY OR KEY UNIT — CIS 2DH

KEYTOP



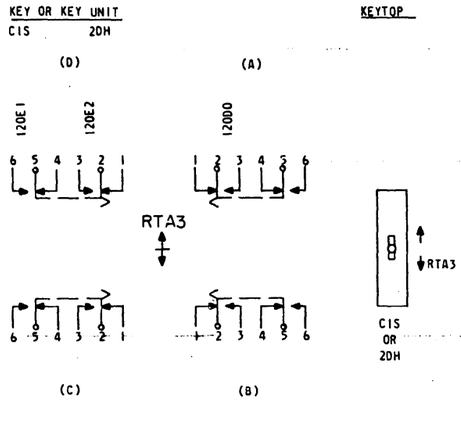
KEY OR KEY UNIT — CIS 2DH

KEYTOP



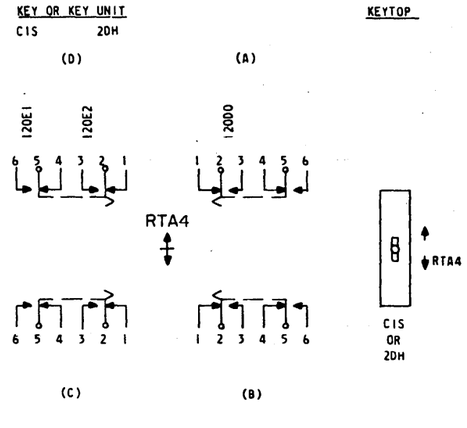
KEY OR KEY UNIT — CIS 2DH

KEYTOP



KEY OR KEY UNIT — CIS 2DH

KEYTOP



LAMP

OPT	DESIG	LOC	CODE
	LD	12001	2Y MI
	LDK	120E0	2Y MI
	SNR	12003	2Y MI

ISSUE

DRAWING ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SC 25800-01-C107

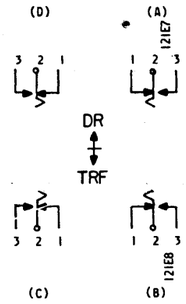
PRINTED IN U.S.A.

APP FIG. 156 (A&M ONLY)

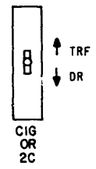
RELAY

DESIG	ACD2		ACD3		ACD4		RL		ITR		TRF										DESIG
CODE	AF24		AJ15		AF24		AK70				AJ83										CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	26A/C8	EBM	11B/C4	M		M	121F5			EBM	20B/B5									12
11	M	26A/C8	EBM	20B/D1	M		EBM				EBM	24A/H0									11
10	M	26A/C8	EBM	20B/D0	M	26A/C8	EBM				EBM	25H0									10
9	M	32A5	EBM	96D6	M	26A/C8	EMB				EBM	26A/E5									9
8	M		EMB		M	26A/C8	EMB	121D6			EMB	65B/D4									8
7	M	20B/D7	EBM		M	26A/C8					EBM										7
6	M	20B/D5	EMB		M	26A/C8					EMB										6
5	M	20A/E6	EMB		M	26A/C8			EMB	121D6	EMB										5
4	M	121F6	EBM		M	26A/C8			EMB		EBM										4
3	M	121F7	EBM	25F6	M	26A/C8			EBM		EBM	50B/B3									3
2	M	121E8	EBM	24B/F6	M	26A/C8			EBM		EBM	50A/B2									2
1	M	121E8	EBM	23B/G8	M	26A/C8			M	121F6	EBM	50A/B2									1
COIL		121E7		121E8		21E8		121D6		121D5		121E8									COIL

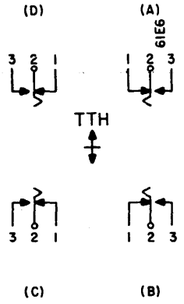
KEY / CIG OR KEY UNIT / 2C



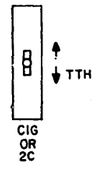
KEYTOP



KEY / CIG OR KEY UNIT / 2C



KEYTOP



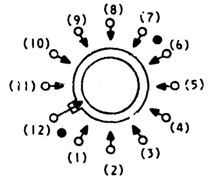
LAMP

OPT	DESIG	LOC	CODE
	ITR	121F6	24 MI
	RL	121F5	24 MI

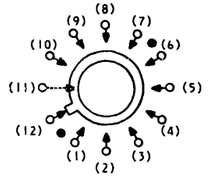
SWITCH

CD

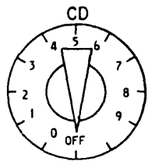
SECT 1



SECT 2



SWITCH TOP



SWITCH

SWITCH SECTIONS SHOWN IN "OFF" POSITION

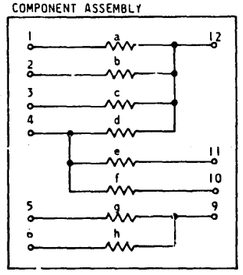
DESIG	CD	
CODE	KS-14618	
LIST	61	
OPTION		
SECT NO.		
1	–	
2	12107	

APP FIG. 158

RELAY

DESIG	ILTT		2LTT			PSA		PMST		PSG		ROH		TIP		RAC				DESIG
CODE	AK30				AK30			AJ15		AK30				AK30						CODE
OPTION																				OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	
12	M				M			EBM	41C/H0	M	42B/D3			M						12
11	EBM	51C/D1			EBM			EBM	26A/F6	EBM	42B/G5			EBM	51C/A1					11
10	EBM	51C/D3			EBM			EBM	43G7	EBM	42B/E4			EBM	51C/D1					10
9	EMB				EMB			EBM	51B/H6	EMB				EMB						9
8	EMB				EMB			EBM	51B/C6	EMB				EMB						8
7								EBM	8A/F7											7
6								EMB	42B/E4											6
5			EMB			EMB		EMB	41A/D2			EMB				EMB	108/H6			5
4			EMB			EMB	51C/B1	EBM	10A/A6			EMB				EMB	8A/E7			4
3			EBM	51C/A3		EBM	51C/D3	EBM	40B/A8			EBM	42B/E5			EBM	40B/A7			3
2			EBM	51C/B2		EBM	51C/C2	EBM	8A/F1			EBM	42B/D5			EBM	8A/F1			2
1			M			M		EBM	8A/F2			M	42B/C3			M	8A/F1			1
COIL		51C/B6		51C/C6			42B/D4		51C/G3		42B/D3		42B/C3		51C/B6		43E2			COIL

COMPONENT ASSEMBLY

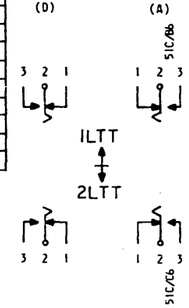


DESIG	PST			
CODE	ED-94823-(),C751			
OPTION				
COMPONENT		DESIG	LOC	CODE
RESISTOR	a	PS3	51C/C2	2244, KS-20810, L1A, 2550
	b	PS4	51C/C3	2244, KS-20810, L1A, 5050
	c	PS6	51C/B3	2244, KS-20810, L1A, 706
	d	PS5	51C/C2	2244, KS-20810, L1A, 1kΩ
	e	PS2	51C/B2	2244, KS-20810, L1A, 402
	f	PS1	51C/C2	2244, KS-20810, L1A, 706
	g	PS7	51C/B3	2244, KS-20810, L1A, 200
	h	PS8	51C/B3	2244, KS-20810, L1A, 24.9kΩ

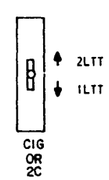
LAMP

OPT	DESIG	LOC	CODE
	PSG	42B/H5	24 MI
	ROH	42B/C5	24 MI

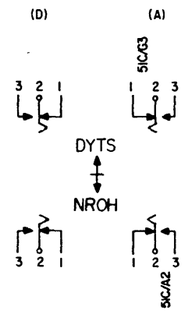
KEY / CIG OR KEY UNIT / 2C



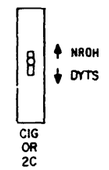
KEYTOP



KEY / CIG OR KEY UNIT / 2C



KEYTOP



APP FIG. 159 (A&M ONLY)

RELAY

DESIG	ROTP		
CODE	U192		
OPTION			
	CONT NO.	ARR	LOC
TOP			
	6,5,4	BM	5C/C8
	3,2,1	BM	5C/G8
BOT	3,2,1	BM	5B/D7
	5,4	M	
COIL			5C/C7

DRAWING ISSUE

ISSUE 103A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-C108

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-C108

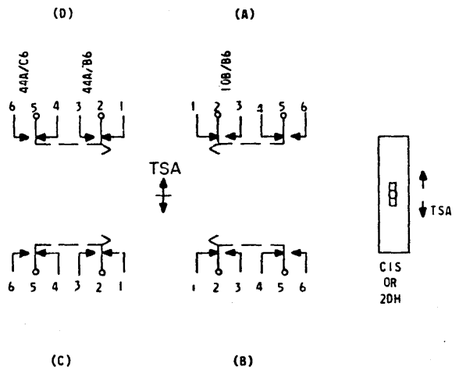
APP FIG. 160 (A&M ONLY)

RELAY

DESIG		ACDA		KTSQA		KTSQ									
CODE		AF24		AK30											
OPTION															
	CONT ARR		LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M			M	44A/C6										
11	M			EBM	44A/D5										
10	M			EBM	44A/C6										
9	M			EMB	108/A6										
8	M			EMB											
7	M														
6	M														
5	M					FMB									
4	M					EMB									
3	M	44A/C5				EBM									
2	M	44A/B7				EBM	108/A7								
1	M	44A/A7				EBM	44A/B6								
COIL		8C/D3			44A/B6		44A/B6								

KEY OR KEY UNIT

C1S 2DH

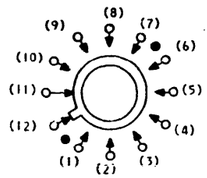


KEYTOP

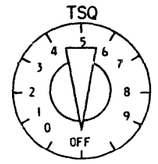
SWITCH

TSQ

SECT. 1-6



SWITCH TOP



SWITCH

SWITCH SECTIONS SHOWN IN "OFF" POSITION

DESIG	TSQ	
CODE	KS-14618	
LIST	51	
OPTION		
SECT. NO		
1	44A/A6	
2	108/B6	
3	44A/C6	
4	-	
5	-	
6	-	

APP FIG. 161 (A&M ONLY)

(SEE APP FIGURE 132)

RELAY

DESIG		TNMA			TNMB												
CODE		U495			U495												
OPTION																	
	CONT NO	CONT ARR	LOC		CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP	12,11	M	102B7		12,11	M	102C7												
	10,9	M	102C7		10,9	M	102C7												
	8,7	M	102C7		8,7	M	102C7												
	6,5	M	102C7		6,5	M	102C7												
	4,3	M	102C7		4,3	M	102C7												
	2,1	M	102C7		2,1	M	102C7												
BOT	2,1	M	107C7		2,1	M	102C7												
	4,3	M	102C7		4,3	M	102D7												
	6,5	M	102C7		6,5	M	102C7												
	8,7	M	102C7		8,7	M	102B1												
	10,9	M	102C7		10,9	M													
	12,11	M	102C7		12,11	M													
COIL			102A1				102A1												

SD-25800-01-C109

ISSUE 89A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-C109

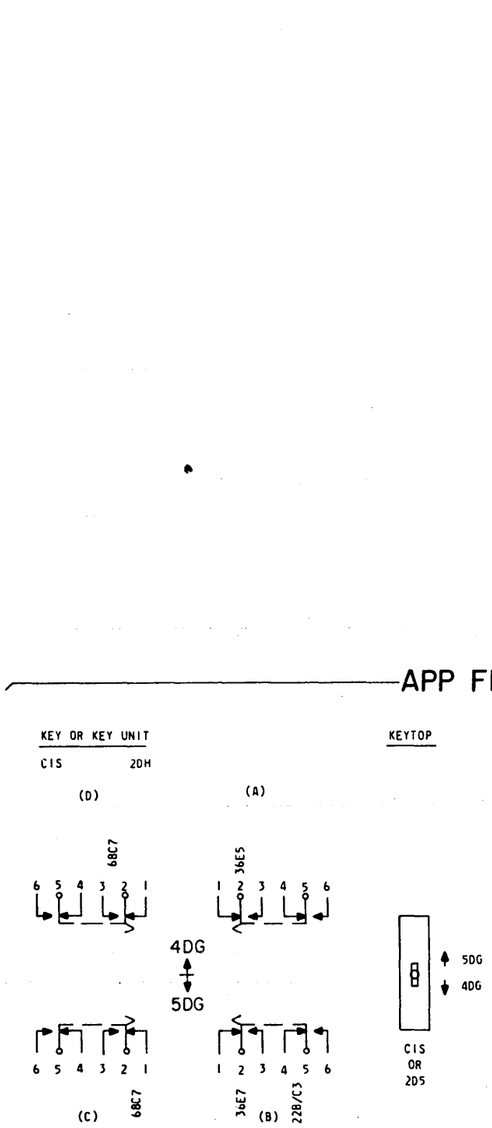
BELL TELEPHONE LABORATORIES INCORPORATED 6S

APP FIG. 163

KEY OR KEY UNIT

CIS 2DH

KEYTOP

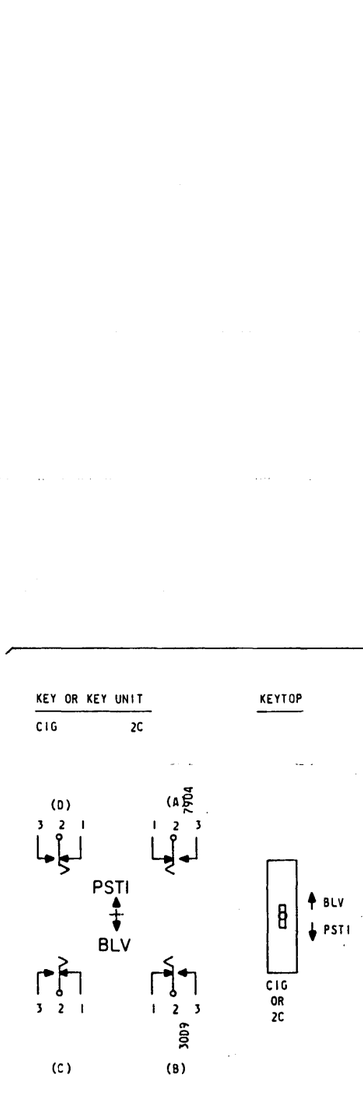


APP FIG. 164

KEY OR KEY UNIT

CIG 2C

KEYTOP

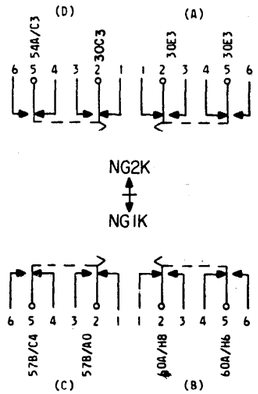


ISSUE 107A	
MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-C110
BELL TELEPHONE LABORATORIES INCORPORATED	CODE 6S

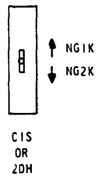
SD-25800-01-C110

APP FIG. 165

KEY OR KEY UNIT — CIS 2DH

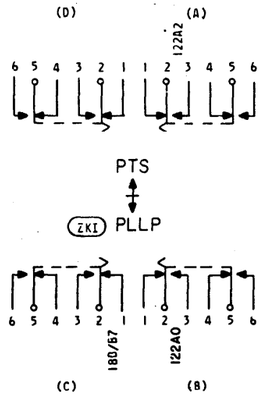


KEYTOP

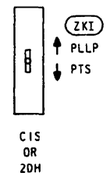


APP FIG. 166

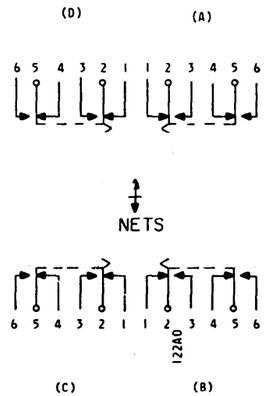
KEY OR KEY UNIT — CIS 2DH



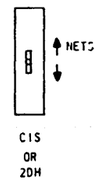
KEYTOP



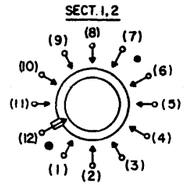
KEY OR KEY UNIT — CIS 2DH



KEYTOP



SWITCH — TB-RA



SWITCH TOP — TB-RA

SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	TB-RA	
CODE	KS-14618	
LIST	39	
OPTION		
SECT. NO.		
1	122E6	
2	122F6	

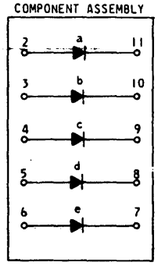
APP FIG. 167

RELAY

DESIG	PTS		PTS1		PTS2		PTS3		PTS4		K1A		K2A		PCAM		NTA		ENTF	
CODE	AJ5		AF24		AF24		AF24		AF24		AK30				AK4				1/2AK4	
OPTION															ZKM					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM		M	44B/B1	M		M		M		M	158/D4			M				M	
11	EBM	40F/E7	M	44B/B1	M		M	41C/C1	M		EBM	54B/C4			EBM	48/D6			EBM	31E6
10	EBM	43B9	M	44B/B1	M	122C2	M	45B7	M	45E7	EBM	54B/C0			EBM				EBM	
9	EBM		M	40B/F8	M	122C2	M	45B7	M	45E7	EMB	118/E4			EMB				EMB	
8	EBM		M	40B/E8	M		M	45B7	M	45E7	EMB				EMB	7188			EMB	
7	EBM		M	40B/D8	M		M	45B7	M	45E7										
6	EBM		M	40B/D8	M		M	45B7	M	45E7										
5	EBM		M	122E8	M	44B/C7	M	45B7	M	45E7			EMB				EMB	122B5		
4	EBM		M	122E8	M	44B/C7	M	45B7	M	45E7			EMB	118/D4			EMB	122B2		
3	EBM	122C2	M	122E8	M	44B/C7	M	45B7	M	45E7			EBM	54B/C0			EBM			
2	EBM	122B2	M	122E8	M	44B/C7	M	45B7	M	45E7			EBM	54B/C4			EBM	122C1		
1	EBM	8C/E0	M	122E8	M	44B/C7	M	45B7	M	45E7			M				M			
COIL		122A3		122B3		122C3		122C3		122C3		158/B4		13A/F5		7186		40B/E8		40B/F8

MTD/W SPARE

COMPONENT ASSEMBLY



DESIG			PTS		PTS1		PTS2	
CODE			ED-94823-(),G217					
OPTION							ZIL	
COMPONENT		CODE	DESIG	LOC	DESIG	LOC	DESIG	LOC
DIODE	a	446F OR 533F	NT	40B/C8	TM1	54B/D4	EBN	54A/F1
	b		TS	40B/C7	TM2	54B/D4	ERI	54A/E1
	c		FS	40B/D5	DMF	26A/C7	ETBI	54A/E2
	d		NF	40B/F5	K2	13A/H5		
	e		VER	13A/G0				

MASTER TEST CONTROL CIRCUIT

DWG SIZE 6S

ISSUE 107A

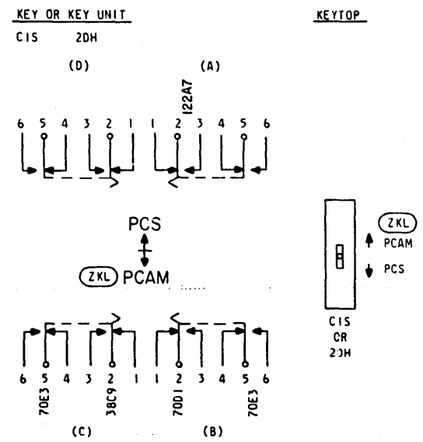
BELL LABORATORIES | SD-25800-01- | CIII

APP FIG. 168

RELAY

DESIG	PCSS		PCS1		PCS2			
CODE	AJ5		AJ12		AJ12			
OPTION								
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	26A/F0	EBM	26B/C8	EBM			
11	EBM	26A/C6	EBM	26B/D7	EBM			
10	EBM		EBM	26B/D3	EBM			
9	EBM		EBM	26B/D3	EBM			
8	EBM		EBM	26B/D3	EBM			
7	EBM		EBM	26B/D3	EBM			
6	EBM		EBM	26B/D3	EBM			
5	EBM		EBM	26B/C0	EBM	26B/D7		
4	EBM		EBM	26B/C0	EBM	26B/D7		
3	EBM	27A2	EBM	26B/C0	EBM	26B/D7		
2	EBM	122C7	EBM	26B/C0	EBM	26B/D7		
1	EBM	122B7	EBM	26B/C0	EBM	26B/D7		
COIL		122A8		122B8		122C8		

APP FIG. 169



MASTER TEST ...L CIRCUIT

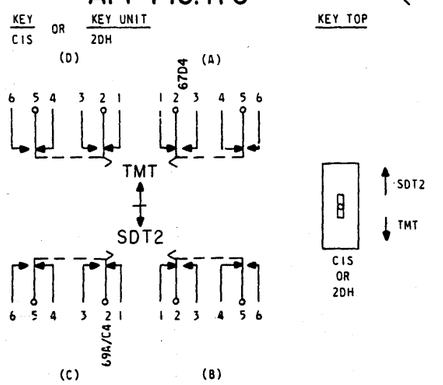
DWG SIZE 6S

ISSUE 99A

BELL LABORATORIES SD-25800-01-

C112

APP FIG. 170



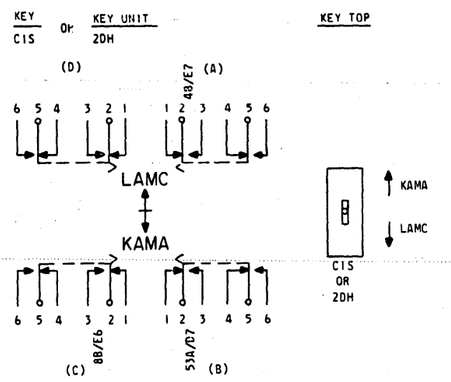
APP FIG. 171

RELAY

DESIG	SDR1		SDR2				TV		TV1				TV2		TV3		TVK		TVK1		DESIG
CODE	AJ12		AJ12				AJ95		AJ12				AK30				AK30				CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	68/D3	EBM	6A/H0			M	38/B5	EBM				M				M				12
11	EBM	56A/E8	EBM	56A/E8			M	11A/D6	EBM				EBM				EBM	5A/C6			11
10	EBM	54B/G1	EBM				BM	58A0	EBM				EBM				EBM	69A/B2			10
9	EBM	9F4	EBM				M	69A/B4	EBM				EMB	108/F7			EMB				9
8	EBM	47D9	EBM	58C3			BM	688/D3	EBM				EMB				EMB	69A/C0			8
7	EBM	7A/F4	EBM	7A/F4			M	65A/C5	EBM												7
6	EBM	58B3	EBM	7B/G1			BM	7A/E4	EBM												6
5	EBM	6A/H0	EBM	688/E3			M	68/C5	EBM						EMB				EMB	5A/C6	5
4	EBM	31D0	EBM	638/C1			BM	20A/H0	EBM	568/F3					EMB				EMB	69A/C0	4
3	EBM	20A/H2	EBM				M	12G8	EBM	56A/F5					EBM				EBM		3
2	EBM	12H7	EBM				M	a	EBM	11B/F4					EBM	29F8			EBM		2
1	EBM	5A/D2	EBM				M	4A/G4	EBM	5A/D2					M	2908			M	69A/G0	1
COIL		68/D3		6A/H1				38/B5		688/E4				688/D6		11A/D6		698/A4		69A/C0	COIL

(ZRW) 5A/G8
a
(ZRU) 58/D1

APP FIG. 172

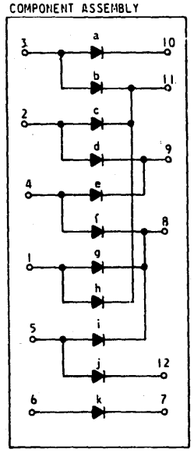


APP FIG. 173

RELAY

DESIG	PLLP		PLLP1		PLLP2		PLLP3														DESIG
CODE	AJ12		AJ12		AJ12		AF24														CODE
OPTION																					OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	638/B3	EBM	638/D1	EBM	638/E1	M	638/E1													12
11	EBM	188/F5	EBM	638/D1	EBM	638/E1	M														11
10	EBM	188/F5	EBM	628/F6	EBM	628/C6	M	628/C2													10
9	EBM	188/F5	EBM	628/F6	EBM	628/C6	M	628/C2													9
8	EBM	188/F5	EBM	628/F6	EBM	628/C6	M	628/C2													8
7	EBM	188/F5	EBM	628/F5	EBM	628/C6	M	628/C2													7
6	EBM	628/A4	EBM	628/F6	EBM	628/C6	M	628/C2													6
5	EBM	628/E5	EBM	628/F6	EBM	628/C6	M	628/F2													5
4	EBM	638/C1	EBM	628/F6	EBM	628/C6	M	628/F2													4
3	EBM	122E2	EBM	628/F6	EBM	628/B6	M	628/F2													3
2	EBM	122D2	EBM	628/F6	EBM	628/B6	M	628/F2													2
1	EBM	122D2	EBM	628/F6	EBM	628/B6	M	628/F2													1
COIL		122B4		122D3		122D3		122E3													COIL

COMPONENT ASSEMBLY



DESIG		NGA		NGB		SA		SB		TBTA		TBTB		TBUA		TBUB	
CODE		ED-94933-01, G093															
OPTION		ZKG		ZKG													
COMPONENT	CODE	DESIG	LOC	DESIG	LOC	DESIG	LOC	DESIG	LOC	DESIG	LOC	DESIG	LOC	DESIG	LOC	DESIG	LOC
a		NGA0	638/D2	NGB0	638/F2	SA0	188/E4	SB0	188/E6	TBTA0	628/B3	TBTB0	628/D3	TBUA0	628/F3	TBUB0	628/F3
b		NGA1	638/E2	NGB1	638/G2	SA1	188/E4	SB1	188/E6	TBTA1	628/B3	TBTB1	628/D3	TBUA1	628/F3	TBUB1	628/F3
c		NGA2	638/E2	NGB2	638/G2	SA2	188/E4	SB2	188/E6	TBTA2	628/B3	TBTB2	628/D3	TBUA2	628/F3	TBUB2	628/F3
d		NGA3	638/E2	NGB3	638/G2	SA3	188/E4	SB3	188/E6	TBTA3	628/B3	TBTB3	628/D3	TBUA3	628/F3	TBUB3	628/F3
e		NGA4	638/E2	NGB4	638/G2	SA4	188/E5	SB4	188/E6	TBTA4	628/B3	TBTB4	628/D3	TBUA4	628/F3	TBUB4	628/F3
f		NGA5	638/E2	NGB5	638/G2	SA5	188/E5	SB5	188/E6	TBTA5	628/C3	TBTB5	628/E3	TBUA5	628/F3	TBUB5	628/F3
g		NGA6	638/F2	NGB6	638/H2	SA6	188/E5	SB6	188/E7	TBTA6	628/C3	TBTB6	628/E3	TBUA6	628/F3	TBUB6	628/F3
h		NGA7	638/F2	NGB7	638/H2	SA7	188/E5	SB7	188/E7	TBTA7	628/C3	TBTB7	628/E3	TBUA7	628/F3	TBUB7	628/F3
i		NGA8	638/F2	NGB8	638/H2	SA8	188/E5	SB8	188/E7	TBTA8	628/C3	TBTB8	628/E3	TBUA8	628/F3	TBUB8	628/F3
j		NGA9	638/F2	NGB9	638/H2	SA9	188/E5	SB9	188/E7	TBTA9	628/C3	TBTB9	628/E3	TBUA9	628/F3	TBUB9	628/F3
k		SPARE		SPARE		PLLP	122B4	SPARE		SPARE		SPARE		SPARE		SPARE	
DIODE	446K																

MASTER TEST CONTROL CIRCUIT

DWG SIZE	ISSUE
6S	102B

BELL LABORATORIES | SD-25800-01- | C113

APP FIG. 174

RELAY

DESIG	LIP																	DESIG
CODE	AK22																	CODE
OPTION																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	EBM	5C/G8																	12
11	EBM																		11
10	EBM	5B/D6																	10
9	EMB																		9
8	EMB	5C/C9																	8
7																			7
6																			6
5			EMB																5
4			EMB																4
3			EBM																3
2			EBM																2
1			EBM																1
COIL		5C/D8																	COIL

NETWORK

OPT	DESIG	LOC	CODE
	LIP	5C/D8	185A

APP FIG. 175

RELAY

DESIG	TVKL																	DESIG
CODE	AK4																	CODE
OPTION																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12	M	69A/G1																	12
11	EBM																		11
10	EBM	69A/H1																	10
9	EMB																		9
8	EMB																		8
7																			7
6																			6
5			EMB																5
4			EMB																4
3			EBM																3
2			EBM																2
1			M																1
COIL		69A/G1																	COIL

APP FIG. 176

RELAY

DESIG	DCTI																	DESIG
CODE	AK30																	CODE
OPTION	ZJN																	OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M																12
11			EBM																11
10			EBM																10
9			EMB																9
8			EMB																8
7																			7
6																			6
5	EMB	51C/F4																	5
4	EMB																		4
3	EBM																		3
2	EBM	41A/D2																	2
1	M	55A3																	1
COIL		55A3																	COIL

DIODE

OPT	DESIG	LOC	CODE
ZJN	PK	51C/F3	533F

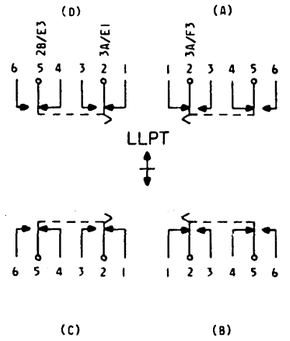
APP FIG. 177

KEY OR KEY UNIT: CIS OR 2CH

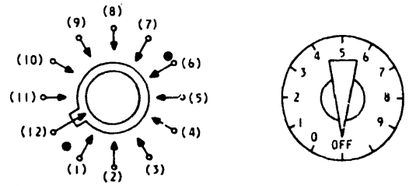
KEY TOP

SWITCH: LPNA, LPNB, LPNC

SWITCH TOP: LPNA, LPNB, LPNC



SECT 1.2



SWITCH (SWITCH SECTIONS SHOWN IN "OFF" POSITION)

DESIG	LPNA		LPNB		LPNC	
CODE	KS-14618,L39		KS-14618,L39		KS-14618,L39	
OPTION						
SECT NO	TERM	LOC	TERM	LOC	TERM	LOC
1	1-10,12	63B/E0	1- 0,12	62B/C0	1-10,12	62B/E0
2	1-10,12	63B/E0	1-10,12	62B/C0	1-10,12	62B/E0

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-C114

BELL TELEPHONE LABORATORIES INCORPORATED

6S

CBL-250 (12-74)

APP FIG. 178

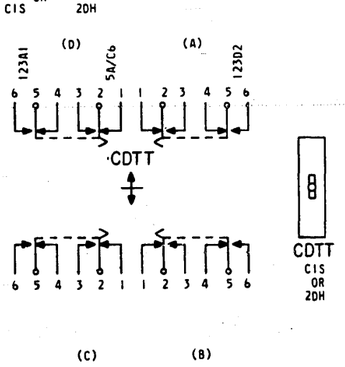
RELAY DESIG	LLP			LLP1			LLP2			LLP3			LLPK			LPNA		
CODE	U535			U611			U1459			U81			U675			U81		
OPTION																		
	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC	CONT NO	CONT ARR	LOC
TOP	12,11	B	40B/E1							12,11	M	48C/D8				12,11	M	8D/F5
	10,9	B								10,9	M		12,11	M		10,9	M	1220D
	8,7	B	54B/C5				11,10,9	BM	12F5	8,7	M	31A7	10,9,8	BM	528/D4	8,7	M	628/D1
	6,5	B	33A/D6	9,8,7	BM	3A/E1	8,7,6	BM	48C/G5	6,5	M		7,6	M		6,5	M	628/D1
	4,3	B	31E2	6,5,4	BM	3A/E2	5,4	B	34B/B2	4,3	M		5,4	M	54B/D1	4,3	M	628/D1
	2,1	B	64B9	3,2,1	BM		2,1,3	MB		2,1	M	31B2	2,1,3	MB	30D4	2,1	M	628/D1
BOT	2,1,3	MB	54A/D3	3,2,1	BM	28/D4	3,2,1	BM	578/B2	2,1	M	53B/F3	2,1	M		2,1	M	628/D1
	5,4	B	38G2	6,5,4	BM	408/B1	6,5,4	BM	48C/G5	4,3	M		4,3	M		4,3	M	628/E1
	7,6	M	628/G0	9,8,7	BM	378/E3	9,8,7	BM	20A/E1	6,5	M		6,5	M	54B/F3	6,5	M	628/E1
	9,8	B								8,7	M	628/H1	9,8,7	BM		8,7	M	628/E1
	11,10	M	3A/B2							10,9	M	628/G1	11,10	M		10,9	M	628/E1
										12,11	M	12200				12,11	M	628/E1
COIL			3A/B2			628/G2			628/G2			628/H2			30C3			12201

RELAY DESIG	LPNB																	DESIG
CODE	AF132																	CODE
OPTION																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	
12	M	8D/H7																12
11	M	638/E1																11
10	M	638/E1																10
9	M	638/E1																9
8	BM	638/E1																8
7	M	638/E1																7
6	BM	12201																6
5	M	188/E3																5
4	M	188/E3																4
3	M	188/E3																3
2	M	188/E3																2
1	M	188/E3																1
COIL		12201																COIL

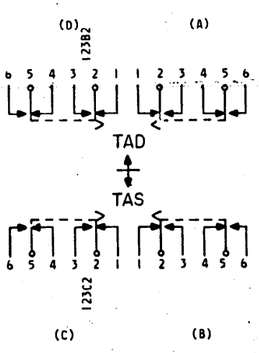
APP FIG 179

KEY CIS OR KEY UNIT 2DH

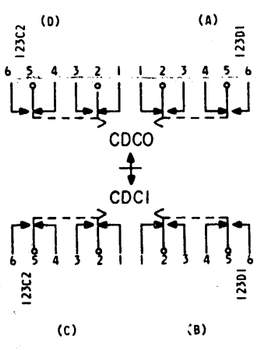
KEY TOP



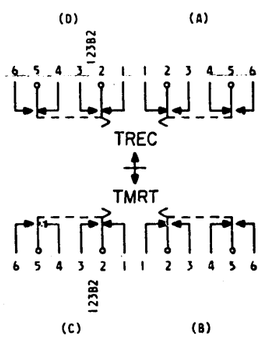
CDTT CIS OR 2DH



TAS TAD CIS OR 2DH



CDCI CDCO CIS OR 2DH



TMRT TREC CIS OR 2DH

RESISTOR

OPT	DESIG	LOC	CODE
	TST	12300	18AG

MASTER TEST CONTROL CIRCUIT

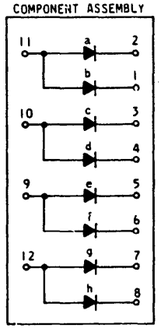
DWG SIZE	ISSUE
6S	107A

BELL LABORATORIES | SD-25800-01- | C:15

APP FIG 180

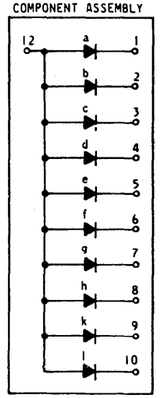
RELAY DESIG / CODE / OPTION	CONT ARR	LOC	MTD/W SPARE AIC4 1/2 AK30 CONT ARR	LOC	ALC0 AF24 CONT ARR	LOC	ALC1 AF24 CONT ARR	LOC	ALT AJ5 CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	RELAY DESIG / CODE / OPTION
12			M	115C2	M		M	115D6	EBM												12
11			EBM	115F6	M		M		EBM	115D6											11
10			EBM		M	115C5	M	115C5	EBM	115C5											10
9			EMB		M	115C5	M	115C5	EBM	115C5											9
8			EMB	115F3	M	115C5	M	115C5	EBM	115C5											8
7					M	115C5	M	115C5	EBM	115C5											7
6					M	115C5	M	115C5	EBM	115C5											6
5					M	115C5	M	115C5	EBM	115C5											5
4					M	115C5	M	115C5	EBM	115C5											4
3					M	115C5	M	115C5	EBM	115C5											3
2					M	115C5	M	115C5	EBM	115C5											2
1					M	115C5	M	115C5	EBM	115C5											1
COIL				115E1		115F3		115F3		115E6											COIL

COMPONENT ASSEMBLY



DESIG		AI		AIA		AIB	
CODE		ED-94859-46, G102					
OPTION							
COMPONENT	CODE	DESIG	LOC	DESIG	LOC	DESIG	LOC
DIODE a	446F OR 533F	A0	11505	A4	11505	A8	11505
DIODE b		B0	11505	B4	11505	B8	11505
DIODE c		A1	11505	A5	11505	A9	11505
DIODE d		B1	11505	B5	11505	B9	11505
DIODE e		A2	11505	A6	11505		
DIODE f		B2	11505	B6	11505		
DIODE g		A3	11505	A7	11505		
DIODE h		B3	11505	B7	11505		

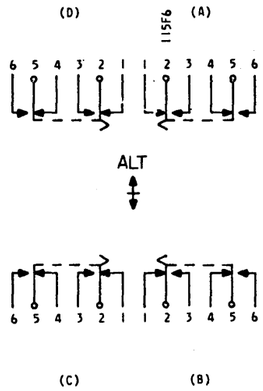
COMPONENT ASSEMBLY



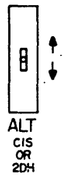
DESIG		AIC		AID			
CODE		ED-94823-76, G280					
OPTION							
COMPONENT	CODE	DESIG	LOC	DESIG	LOC		
DIODE a	446F OR 533F	C0	11505	D0	11506		
DIODE b		C1	11505	D1	11506		
DIODE c		C2	11505	D2	11506		
DIODE d		C3	11505	D3	11506		
DIODE e		C4	11505	D4	11506		
DIODE f		C5	11505	D5	11506		
DIODE g		C6	11505	D6	11506		
DIODE h		C7	11505	D7	11506		
DIODE k		C8	11505	D8	11506		
DIODE l		C9	11505	D9	11506		

KEY OR KEY UNIT

C1S 2DH



KEY TOP



MASTER TEST CONTROL CIRCUIT

DWG SIZE 6S

ISSUE 106B

BELL LABORATORIES SD-25800-01- C116

CIRCUIT NOTES:
1 1/3 AMP, 48 VOLT SIG BAT. FUSE
(SEE NOTE 1 & 2)

101. (A)

DESIG	BATTERY SUPPLY FOR FIG.	APPARATUS
B1	B	LV2-6,MCB,SDR1,2,TV,TV2-4,LV6
	F	PT
	J,K	LT
	M	SLK1(R),SLKT(C),SLKT(E),SLKT(R)
	1	KR,KR1,MC,MC1,MC2,MC18
	2	DT,INC,IR,LHC,MC3,4,MKT2,MS(R),OR, ORIG,SDR,SDRA,ST
	3	AL(R),CKG,IAO,IT,ITDO,ITNP,ITP,MCS,MISC, N(R),OGT,SB,TB,TKT1,TKT2,TTR
	9	KRA
	13	KLT
	22	IMS
	38	MKT3
	41	IMT
	56	PRDK
	120	ACD1,ACDT,AV,AV(L),AVG,AVG(L),CLK,NTS,OBS(RL), PRD,PRD(L),PRU,PRU(L),PRUK,SIG
		TGT1,TGT1(L)
	133	LLS
	155	IFL, SNR
	156	RL(L),ITR(L)
B2	N	SDT
	1	BT,MFC1,MRL,MTP,SP(RL),TRL,TS
	30	FAA,FAB
	31	ORT,SRG1,SRG2
	49	LO(L)
	89	XM,XMA
	156	ACD(2-4),ITR,RL,TRF
B3	1	DCT,DIS1,LK2,MO1,MS1,RBT1,REC, TC1,TRL1
	123	RDK(L),RDR(L)
	131	RV(L)
B4	4	K,KA,KB,KC,KD,KE,KF,KG,KH,KJ,KL, KK,TM1
B5	4	BB,K1,K2,OTL5,TTL,TTL1,TTL2
	5	NA,NA1,NB,NB1,NC,NC1,ND,ND1,VER3-5
B6	L,M	MLVF,MLVM,VER2,VER7
	M	VER6
	7	CSGK,CSK,CSK1,CSRK,FTK,FUK,HGK, RCK,VER1,VER9,VFK
B7	3	N1

101.(A)

DESIG	BATTERY SUPPLY FOR FIG.	APPARATUS
B7	M	LI,NS,SLK
	6	KHGA,KFTU,KFU,KV,KV1,KVF1,KVG1,2,3,4
	7	IOD,KCSO.1.2.3.5.6KRC1.2.TCBT
	17	CK(L)
	23	FNK
	37	CGA,CGAB,CGB,KCS4,VER8
B8	X	KOSA
	8	ASB,KOS,KOSG,OSK,SSA,SSB,SST1
	18	OSGO-4
	35	ASB,KOS,OSK,SSA,SSAA,SSB,SSBA
	36	OSGO-11
	160	ACDA,KTSQ,KTSQA
B9	9	HMSA,KFS,KMT9,KTF,KTS,P3A,P4A,P5A, RA,RA1-5,RAP1-5,RAV,WSD,XFT
B10	9	FTC(RL),TT(RL)
	10	JSQ,KCH,KJSQ,STP
	13	FL(L)
B11	11	KTNA
	12	KMB,KTN,KTN1
	13	CSW,RSO-9
B12	11	BN,KIC,KIC1,KLT1,KTN2,MC2,R1, SDR3,4,TAN,TKT3,TOL
	13	FB,FC,JHM,KF2,KINC,K1TC,KRN,KRS, LLIK,LS,PBX,RC,RSH,TC,TM,TM(R)
B13	14	F1,LHM,LHMA,LK1,NTB,NTC,NTC1,NTH, SCB,SCB1
	15	XLH(R),XLH1(R)
	49	NTH1
B14	15	CL(R)
B15	7	TNK
	15	CON,CT1-4,EXT(R),HMS1,MC,MC14, PBX1,PU,SL
	32	NGT,NGT(R)
	179	TST (R)
B16	1	NTR
	13	PBX(R)
	16	KNT,KPBX,LF,LF1,M,MPT,MPTA,NIT,ROTP
	17	AMA,CK1,CNR,KOR,KOR1,L(R),OSC, ROT,TMK
B17	H	POF(L)
	1	BT-OF(L),DIS1(L),LK2(L),MRL(L),RBT1(L), TC1(L),TRL(L),TRL1(L)
	3	TB(L),SB(L)
	9	TSK(L),XTSK(L)
	14	NTB(L)
	15	TCT(L)
	16	LF(L),M(L),MPT(L),NTT(L)
	17	CNR(L)
B18	M	SLK(L)
	11	BN(L),RI(L),TBI(L)
	13	1(L),1+(L),2(L),2+,2+(L),3,3+(L),4(L), 5(L),BY(L),FLI(L),OFL(L),PBX(L),RP(L),TP(L)
	34	LP
B19	L,M	MLVF(L),MLVM(L)
	8	TVL(L),TVT(L),TVK(L)
	2	DT(L),INC(L),IR(L),OR(L),ORIG(L),SDR(L)
	3	IAO(L),ITDO(L),ITNP(L),ITP(L),LT(L), MISC(L),MLV(L),OGT(L)
	20	SDT3(K),TLVF(L),TLVM(L)
	105	ADD(L),AGC(L),ALM(L),INH(L), Z1,2,4,8,16,32,64(L)
	109	LOLP(L)
	118	WTB(L)
	138	KR(L)
	151	ADD(L)
	150	CSI(L)

101.(A)

DESIG	BATTERY SUPPLY FOR FIG.	APPARATUS
B20	F	CMA,B,C,CM3,G1,GR,PC1-3,PRL,PST(R), PTR1,SD,SR
	H	DS,MC9,OF(R),PC,PCD,PCD1,PCR,PCS,S
	20	AIDT,KR2,KTV,STK
	125	A,A1A,CK,PA,PAR,TBL
	153	IRL(L)
B21	20	UCK
	125	A(R),B(R),C(R),CO,CO1,DST,IK,K(R),RO,TAB
	125, 127	TVT
	126	(5)PTR(J)
	161	TNMA,TNMB
B22	20	HK,LV2,LV8,OFK,THK,TK,TLVF,TLVM,UK
	126	(5)PTO(J)
	132	TNM
B23	20	HN,OFF,T,TH,U
B24	F	CMA-C(L),CM3(L),G1(L),GR(L),HD(L), PRL(L),PTR(L),PTT(L),SD(L)
	H	PC(L)
	11	TAN(L),TOL(L)
	22	IMS(L)
	49	PR1
	98	ARL(L)
B25	9	RA1-11(L),RCY(L)
	24	MTT(L)
	26	ATT(L)
	31	RON(L)
	38	LMMT(L),LLJ(L),TLH(L)
	77	SAC(L),SSC(L),TSCT(L)
	89	XM(L)
	99	RAD,RAT1,2(L)
B26	V	FSO-2
	24	MTT
	25	TS1-11
	26	ATT(L)
	27	ERP,(6B)MTCP,PR,REP,(1T)REP
	28, 39	AERP,(8T)AERP,(9T)AERP,ARET(L),ATTP (1B)ATTP,(2T)ATTP,LVP,(1T)LVP,(2T)LVP, TTRP,(1T)TTRP,(2T)TTRP
	29	TVK,TVK1
	138	ARET(L)
B27	R	P,P1,POR
	40	APTT(L),CAM6,GS,PD,PLST,POSC,POSC(L), SGA,SGB,TBC,TBC(C),TSK
	46	CAM4
	64	ATV
	100	VER4
B28	40	CAM7,OTT(R),PO
	41	AD,AIA,AIB(R),CAM1-3,CAM5,CAMA(L), CAMA(C),CSR,DMS,FCAM,IMT(L),IMT1, KCCN,MC11,OD,TTA1
	42	CX2(L),CX3,L1(R)
	44	MC10,ROP,ROP(L),TVA
	45	KCN,KCN1
	48	ASDR,ATLV,CL3,OCN
	56	TTL8
	59	PE(L)
	93	KACN

101.(A)

DESIG	BATTERY SUPPLY FOR FIG.	APPARATUS
B29	7	TNK(L)
	43	VER10
	49	4W,4W(L),4WA-D,4WF,BB1,FA,KTN3,NYC2, OPR,OPR(L),OTL3,4,PR(L),TTL3,4
	51	BRL,BRL(L),BRL1,BTG,CE,EV,ITRK,MC13, ODD,OFO,1
	62	CCT(L),EC(L),RC(L),ST(L)
	76	CKCB,CKCB(L),ENCB,ENCB(L),ENFL,ENFL(L), ES(L),ESCK,LLES,TLES
	94	4WE,MC12,TCTA(L)
	98	LPO-2(L),SKS(L),TPO,1(L)
	99	E1(L),FP(L),PLB(L)
	110	CBRL(L)
	117	TAMA
B30	49	MC15
	55	ATC,ATC(L),CDN,CDN(L),CRO,CR1, CTTO,1,2,4,7(L),(51)CTTO,1,2,4,7, CUTO,1,2, 4,7(L),(51)CUTO,1,2,4,7,FDLP,KINC1,MC17, OV,POK,RE,TRF,TRF(L),TRF1,TTL5
	56	ATNT(L),CB(L),LB(L),KNT4,PO(L),PLTO(L), SPBL(L),TTL6,7
	58	2LN,2LN(L),TBSK,TERK,UAK
	58,65	KTBS,RIP,RIP(L)
	86	CTAO,1,2,4,7(L),CUO1,2,4,7(L),DAT(L), DTF(L),TIR(L)
	87	DT7(L),LIDF(L),LIDM(L),LLAT(L),LR(L)
B31	9	RCY
	60	LLP,LLP1-3,LLPK,LLPV
	61	2WLL(L),2WTL(L),4WTL(L)
	77	SAC,SSC,TSCT
	97	MC16
	178	LLP,LLP1-3,LLPK,LPNA,LPNB
B32	49	4WG,LO,OPR,OTL6,PR1
	59	PE,PER
	62	AST,ASTR,CCT,CRC,RST,(1)STA, STA,STL(L)
	110	CBRL
B33	36	(51)CTAO,1,2,4,7
	49	NTC2
	86	CF(R),CR1R,(51)CUO,1,2,4,7,DAT, DT4,5,DTF,DTR,DTR1,KLL,NTC3, NTH2,OFR,OTL7
	87	CMK,FT(AK,BK),FU(AK,BK),HGO,1,2,4,7, HG(AK,BK),KL1,LIOF,LIOM,LIK1-3, LITR,R1A,T1,TRIC,VF1K,VG(AK,BK)
B34	86	CTL2,TL5(B,C)
	87	1DST,FTO-3,FUO,1,2,4,7,LLO,1,2,4,7 LL(AK,BK),TTK,VGO,1,2,4,7,10
B35	87	CATN,DT7,IDT,(1)LIK1,MC19,X1,XHG, XHG(L),XHGA,XL
B36	90	LFTO-5,MPP,PLL
B37	94	4WE,MC7
B38	98	AF,ARL,FO,KSK,KSK1,MC20,LOL(R), LPO-2,PRE,PRO,PTL,SKO-5,SK1-5(L) SKS,SKA0,SKA0(L),SKAL,SKB0,SKB0(L), SKCA,SKCK,SKF,SKF(D,T),SKFP(L), SKFT(L),SKTK,XSK,XSKA,XTG
	99	4WLL(L)

NOTES:

1. (a) FUSED ON PRTD FRAME.
   (b) FUSED ON OSAIS FRAME (A & M AIS ONLY).

BATTERY SYMBOL	VOLTAGE RANGE	
-48	45-50V 48.5-50V 125-135V	(SEE NOTE 306)
+130	133-135V	

2. LEGEND OF APPARATUS ABBREVIATIONS USED IN CIRCUIT NOTES:

NO ABBREVIATION	RELAY WINDING
(12)MP	CONTACT 12 OF MP RELAY
(C)	CAPACITOR
(E)	ELECTRON TUBE
(J)	JACK
(K)	KEY
(L)	LAMP
(R)	RESISTOR
(RL)	RESISTANCE LAMP

DRAWING ISSUE
80D
82D

ISSUE
107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D1

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-D1

CIRCUIT NOTES:
1 1/3 AMP, 48 VOLT SIG BAT. FUSE
(SEE NOTES 1 & 2, SHEET 01)

101.(A) (CONT.)

DESIG	FIG.	BATTERY SUPPLY FOR APPARATUS
B39	11	TKT3A
	99	4WIR,4WLT,4WM,ATMK,E1,FPS,KTNS,
		LLP,MTTK,PLB,RAT8,B,TTS
	114	LK,MTKK
	123	RDCK,RDR
	124	LTP
	175	TVKL
B41	102	3DC,OTL8,9,TTL9
B42	106	L1A,OTL10,11,TTL10
	118	LBH,LBH(RL),LBS
	135	WTB
B43	112	KPD,KPD1
B44	M	NST1
	60	LLPA
	105	ADD
	108	TDV(R),TDVA
	109	LOL,LOLP,NOL,NTRE,REX
	131	RVI
B45	111	ANGC,GLTA,TSE,TSEA
	153	IRL,IRPT
B46	1	IAD1,KR3,MC22,N2
B47	* 146	CNTT,CW1,2
		CWCV,CWH,CWH1,CWK,CWLT,CWM1,2, CWNT,
		CWOR,CWTH,CWTL,CWTV
B48	122	LCT(L),NSA(L),NSA(R),NRD,NRD(L),RCD,
		RCD(L),SMP(R)
B49	135	MBC,VLB,VLBK,VLR,VLRK,WHMT,WHOM,
		WLVF,WLVK,WRSK,WRSK(R)
B50	107	TBTO(RL)
B51	107	TBT1(RL)
B52	107	TBT2(RL)
B53	107	TBT3(RL)
B54	107	TBT4(RL)
B55	107	TBT5(RL)
B56	107	TBT6(RL)
B57	107	TBT7(RL)
B58	107	TBT8(RL)
B59	107	TBT9(RL)
B60	107	ANGA,B, TBTO-9(RL),TBU(RL)
B61	127	BAK,CB,CS,CTR,CTV,DRST,LCP,RBTL,
		TMCK,TRSA
B62	128	AEC(L),BAK,CBY(L),CS(L),CTR(L),DEC(L),
		DISC(L),DNK(L),DRST(L),IEC(L),LCP(L), MA(L),
		NRST(L),RST(L),RTB(L),TCTR(L),TST(L),TTC(L)
B63	127	AR,BR,CR,DR1,2,DR1A,2A,L1,2,RST1(RL)
B64	1	DISC
	125,127	TVT
	127	AEC,CGD,DEC,DNK,ETRC,IEC,IR(R),
		MA(R),TCT, TCT1,2,TCTR,TNT,TNTA,TTV,TTV1,
		TKCT,UK(R),XTN(R)
B65	127	TCTN(RL)
B66	127	RECE,RL1,2(RL),TCTK,TCTN,TCTT,
		TNPX,TNT,TST
B67	146	CWDS,CWKR,CWL,CWRL,CWSP,LOK,LVO,NCW,
		NCWC,NTCW,NTV8,RLH
B68	135	WB,WBT, WBT1-5,WHS, ILV,
		WMT,WTK
B69	135	IAOB,IAOF,JSF,JSF1,RUK,WBLK,WCK,
		WDC1,WJH2,WLH2,WLK,WRT,WTH2
B70	135	WM(RL)
B71	135	WL(RL)
B72	14	LK1A
	135	KTN7,RIW,RWL, TTL12-13,VLR(R),WBK, WBNT,
		WBT8,WBTK,WFAK, WFBK,WFLG,WLV1,WLXP,WT,
		WT1(R),WTLH1,2,WTRP,(1)WTRP

101.(A)

DESIG	FIG.	BATTERY SUPPLY FOR APPARATUS
B73	135	ICNK,2CNK,CWCN,LPCK,LWLP,TKCK,ULP,
		VTS,WCF(R),WLB,WTK8
B74	135	CSTK,CTM1,2,JXW,LXW,SKTM,SLFK,
		WBLC,WBT6,WCST,WMT1
B75	1	IT1,MFCD,MKT4
B76	146	CRLA,CWDC,(12)CWDS,CWRL,
		CWT,LOH
B78	146	CW(RL),CWH(R),XCM(R),XCW(R)
B79	149	CHT,CHT(RL), IAOC,TOC
B80	151	ADDO-9,AGA-C
	152	AGCMO-11
B81	1	KTN6,TM2
	4	K3,KM
	140	RTFA,B,C,D
B82	154	AREP,ATTP,EPR,LVP,MTCP,PGA,PGB,PR,LTP
		ROTP,TTRP,WTRP
B83	1	DIS2,MC23,MC24
	3	AICT,AISM,REPR,REPS,REPT
B84	135	BCNK,BSC,BSMT,BSNT,BSTK,
		KTN8,KTN8A,LSS
B85	158	TIP,PST,ILTT,2LTT,RAC
		PSA,ROH,PSG
B86	127	ATVA,ATVB,ATVC
B87	167	K1A,K2A,NTA,PCAM,PTS,PTS1-4,ENTF
	168	PCSS, PCS1,2
	173	PLLP,PLLP (1-3)
B88	170	SDR1,SDR2,TV,TV(1,2,3)
		TVK,TVK1

101.(A)

DESIG	FIG.	BATTERY SUPPLY FOR APPARATUS
C1	H	PC(L),POF(L)
	7	TNK(L)
	11	BN(L),R1(L),TAN(L),TB1(L),TOL(L)
	13	1(L),1+(L),2(L),2+(L),3(L),3+(L),4(L),5(L),
		BY(L),FL(L),FL1(L),OFL(L),9BX(L),RP(L),TP(L)
	15	TCT(L)
	17	CK(L),CNR(L)
	31	RON(L)
	40	APTT(L),POSC(L)
	41	CAMA(L)
	42	CK2(L)
	49	4W(L),OPR(L),PR(L)
	58	2LN(L)
	61	2WLL(L),2WTL(L),4WTL(L),
		LRFTO-5(L),LRFUO-9(L)
	62	CCT(L),EC(L),RC(L),ST(L)
	76	CKCB(L),ES(L),ENCB(L),ENFL(L)
	89	XM(L)
	94	TCTA(L)
	105	ADD(L),AGC(L),ALM(L),Z1,2,4,8,16,32,64(L)
	110	CBRL(L)
	120	AV(L),AVG(L),PRO(L),PRU(L),TGTI(L)
	155	LD(L),LDK(L),SNR(L)
	156	ITR (L), RL (L)
C2	F	HD(L),CI(L),GR(L),PRL(L),PTR(L)
	L,M	MLVF(L),MLVM(L)
	M	SLK(L)
	1	BT-OF(L),DISI(L),LK2(L),MRL(L),
		RBTI(L),TCI(L),TRL(L),TRLI(L)
	3	SB(L),TB(L)
	9	RCY(L),TSK(L),XFT(L),XTSK(L)
	16	LF(L),M(L),MPT(L),NTT(L)
	20	TLVF(L),TLVM(L)
	24	MTT(L)
	26	ATT(L)
	38	LHMT(L),LLJ(L),TLH(L)
	55	ATC(L),CON(L),TRF(L)
	56	CB(L),GT(R),LB(L),PO(L),PLTO(L),SPBL(L)
	58,65	RIP(L)
	59	PE(L)
	77	SAC(L),SSC(L)
	86	DAF(L),DTF(L),TIR(L)
	87	DT7(L),LIDF(L),LIDM(L),LLAT(L)
	122	LCT(L),NRD(L),RCD(L),SA(L)
C3	B	TLV(L),TVT(L),TVK(L)
	F	PTT(L)
	2	DT(L),INC(L),IR(L),OR(L),ORIG(L)
	3	IAO(L),I..P(L),ITDO(L),ITP(L),LT(L),
		MISC(L),OGT(L)
	9	RAI-11(L),RAT1,2(L)
	22	IMS(L)
	39	ARET(L)
	41	IMT(L)
	49	LO(L)
	56	ATNT(L)
	77	TCST(L)
	90	STP(L)
	99	RAO(L)
	101	CCSA(L),POTS(L)
	109	LOLP(L)
	131	RV(L)
	138	KR(L),PG,PR,STT(L)
	150	CSI(L)
	145	CRL(L),CWH(L),CWK(L),CWL(L),CWSP(L),CWT(L),
		CWTH(L),LOK(L),LVO(L),NCW(L),NCWC(L),
		NTCW(L),NTV8(L),RLH(L),CNTT(L)

101.(A)

DESIG	FIG.	BATTERY SUPPLY FOR APPARATUS
C4	55	CTTO,1,2,4,7(L),CUTO,1,2,4,7(L)
	86	CTAO,1,2,4,7(L),CUO,1,2,4,7(L)
	98	ARL(L),LPO-2(L),SK1-5(L),SKAO(L),
		SKBO(L),SKFP(L),SKFT(L),TPO-2(L)
	151	ADDO-9(L)
	99	4WLL(L),E1(L),FP(L),PLB(L)
C6	128	AEC(L),BAK(L),CBY(L),CS(L),CTR(L),CTV(L),
		DEC(L),DISC(L),DNK(L),DRST(L),IEC(L),
		LCP(L),MA(L), NRST(L) ,RST(L),RTBL(L),
		TCTK(L),TCTR(L),TST(L),TTC(L)
	144	MBF(L)
	134	IAOB,F(L),JSF1(L),OTL(L),RTIK,2K(L),RUIK(L),
		RU2K(L),SWAT(L),TTO(L),TTI(L),VLB(L),VLBK(L),
		VRL(L),VLRK(L),WBLK(L),WBTK(L),WCK(L),
		WHOM(L),WHS(L),WLVF(L),WLVK(L),WMB(L),
		WROL(L),WRSK(L),WRTL(L),WTK(L)
C7	122	NSA(L)
	134	INCK(L),2CNK(L),CWCN(L),LPCK(L),LWLF(L),
		LWLP(L),TKCK(L),ULF(L),ULP(L),WMC(L)
C9	153	IRL(L)
D1	134	ICNK(L),2CNK(L),CWCN(L),DAW8(L),IAO8(L),
		IAOF(L),JSF1(L),LPCK(L),LWLF(L),WLP(L),
		OTL(L),R1W(L),RTIK(L),RT2K(L),RUIK(L),
		RU2K(L),SWPT(L),TKCK(L),TTO(L),TTI(L),
		ULF(L),ULP(L),VLB(L),VLBK(L),VLR(L),VLRK(L),
		WBLK(L),WBTK(L),WCK(L),WHMD(L) WHS(L),
		WLVF(L),WLVK(L) WM8(L),WMC(L),WRO(L),
		WRSK(L),WRTL(L),WTK(L)
	145	CRL(L),CWH(L),CWK(L),CWL(L),CWSP(L),CWT(L),
		CWTH(L),LOK(L),LVO(L),NCW(L),NCWC(L),
		NTCW(L),NTV8(L),RLH(L),CNTT(L)
	158	PSG(L),ROH(L)
M2(b)	137	AIC,AIC1,2,AILT,CKD
	180	AIC4,ALCO,ALC1,ALT

DRAWING ISSUE
80D
81A
82D
83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D2

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-D2

CIRCUIT NOTES:

101. (B) 1 1/3 AMP, +130 VOLT SIG BAT. FUSE
(SEE NOTE 2, SHEET D1)

DESIG	BATTERY SUPPLY FOR FIG.	BATTERY SUPPLY FOR APPARATUS
B1	15	CA(R)
	16	NB(R)
	34	LLF(C),LLF(R),NGF(C),NGF(R)
	122	SA(R)
B2	87	LR(R),LR(E),LR3(R)
B3	98	SKF(C),SKF(E),SKF(R)
	118	LBS(L)
B4	135	VLS1,2(R),WT2(R)

101. (C) 3/4 AMP, HIGH VOLTAGE FUSE

DESIG	BATTERY SUPPLY FOR FIG.	BATTERY SUPPLY FOR APPARATUS
LI-TP (a)	87	FUSED ON PRTD FRAME

101. (D)

DESIG	FUSE AMP	POTENTIAL	ONE PER
B1		GROUND	FIG. 1, 120,155&156
B2		GROUND	FIG. 1,30,A&156
B3		GROUND	FIC. 1,A,H,166&169
B4		GROUND	FIG. 1
B5		GROUND	FIG.2,22,31,38,89,A,G & N
B6		GROUND	FIG.3,A,J,K & M
B7		GROUND	FIG. 4 & 5
B8		GROUND	FIG. 6,7,37,A,L & M
B9		GROUND	FIG. 8,35 & W
B10		GROUND	FIG. 8,18,36 & 160
B11		GROUND	FIG. 9 & 10
B12		GROUND	FIG. 1,11,13,60,137,H & N
B13		GROUND	FIG. 13
B14		GROUND	FIG. (4,49 & 86
B15		GROUND	FIG. 7,15,31,33,34,49,94 & 143
B16		GROUND	FIG. 16,17
B17		GROUND	FIG.B
B18		GROUND	FIG. 1,3,11,13,15-17,23,32, 37,94,97,101,105,106,111,113
B19		GROUND	FIG. 2,8,9,20,35,68,74,86, 87,88,122,F,U&V
B20		GROUND	FIG. 6,S & T
B21		GROUND	FIG. 6,7,11,H & L
B22		GROUND	FIG. 4
B23		GROUND	FIG. 4
B24		GROUND	FIG. 9,U & V
B25		GROUND	FIG. 12 & 13
B26		GROUND	FIG. 20,F,H & N
B27		GROUND	FIG. 20
B28		GROUND	FIG. 20 & 47,48
B29		GROUND	FIG. 24,25,26,27,29
B30		GROUND	FIG. 40,41 & R
B31		GROUND	FIG. 41,42,44,45 & 48
B32		GROUND	FIG. 49,51,59,62,76,98,99, 103,114 & 130
B33		GROUND	FIG. 55,56 & 86
B34		GROUND	FIG. 9,58,60,65&178
B35		GROUND	FIG. 49,59,62 & 110
B36		GROUND	FIG. 86,87 & 121
B37		GROUND	FIG. 90
B38		GROUND	FIG. 11,98,99 & 114,175
B39		GROUND	FIG. 101
B40		GROUND	FIG. 102
B41		GROUND	FIG. 106 & 118
B42		GROUND	FIG. 109 & 112
B43		GROUND	FIG. 60,105 & 109
B44		GROUND	FIG. 111,131 & 153
B45		GROUND	FIG. 145
B46		GROUND	FIG. 1
B47		GROUND	FIG. 146
B48		GROUND	FIG. 122
B49		GROUND	FIG. 135
B50		GROUND	FIG. 127,128
B51		GROUND	FIG. 127,128
B52		GROUND	FIG. 128
B53		GROUND	FIG. 127
B54		GROUND	FIG. 134
B55		GROUND	FIG. 135
B56		GROUND	FIG. 135

101. (D)

DESIG	FUSE AMP	POTENTIAL	ONE PER
B57		GROUND	FIG. 135
B58		GROUND	FIG. 135
B59		GROUND	FIG. 1,135
B60		GROUND	FIG. 1,144,180
B62		GROUND	FIG. 14,148 & 149
B63		GROUND	FIG. 139
B64		GROUND	FIG. 151,152
B65		GROUND	FIG. 107
B66		GROUND	FIG. 1,140
B67		GROUND	FIG. 154
B68		GROUND	FIG. 1,3
B69		GROUND	FIG. 135
B70		GROUND	FIG. 158
B73		GROUND	FIG. 127
B87		GROUND	FIG. 167,168, 173
B88		GROUND	FIG. 170,171
D1		GROUND	FIG. 134
D2		GROUND	FIG. 145
M2(b)		GROUND	FIG. 137, 180

101. (D)

DESIG	FUSE AMP	POTENTIAL	ONE PER

DRAWING ISSUE
800
820

ISSUE
106B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D3

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D3

CIRCUIT NOTES:

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-
1	B19	C1	-
1+	B18	C1	-
1CNK	C7	C7	D1
2	B18	C1	-
2+	B18	C1	-
2CNK	C7	C7	D1
2LN	B30	C2	-
2WLL	B31	C1	-
2WTL	B31	C1	-
3	B18	C1	-
3+	B18	C1	-
4	B18	C1	-
4W	B29	C1	-
4WLL	B38	C4	-
4WTL	B31	C1	-
5	B18	C1	-
ADD	B19	C1	-
ADDO-9	B19	C4	-
ADRA	-	C2	D1
AEC	B62	C6	-
AGC	B19	C1	-
ALM	B19	C1	-
APTT	B27	C1	-
ARET	B26	C3	-
ARL	B24	C4	-
ATC	B30	C2	-
ATNT	B30	C3	-
ATT	B25	C2	-
AV	B1	C1	-
AVG	B1	C1	-
BAK	B62	C6	-
BN	B18	C1	-
BRL	B29	-	-
BT-OF	B17	C2	-
BY	B18	C1	-
CAMA	B28	C1	-
CB	B30	C2	-
CBRL	B29	C1	-
CBY	B62	C6	-
CCSA	B40	C3	-
CCT	B29	C1	-
CDN	B30	C2	-
CK	B7	C1	-
CK2	B28	C1	-
CKCB	B29	C1	-
CM3	B24	C2	-
CMA	B24	C2	-
CMB	B24	C2	-
CMC	B24	C2	-
CNR	B17	C1	-
CNTT	C3	C3	D1
CRL	C3	C3	D1
CS	B62	C6	-
CSI	B19	C6	-
CTAO,1,2,4,7	B30	C4	-
CTIO,1,2,4,7	B30	C4	-

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-
CTR	B62	C6	-
CTV	B62	C6	-
CUO,1,2,4,7	B30	C4	-
CUTO,1,2,4,7	B30	C4	-
CWCN	C7	C7	D1
CWH	C3	C3	D1
CWK	C3	C3	D1
CWL	C3	C3	D1
CWSP	C3	C3	D1
CWT	C3	C3	D1
CWTH	C3	C3	D1
DAT	B30	C2	-
DAWB	B40	C3	D1
DEC	B62	C6	-
DISI	B17	C2	-
DISC	B62	C6	-
DNK	B62	C5	-
DRST	B62	C6	-
DT	B19	C3	-
DT7	B30	C6	-
DTF	B30	C2	-
EI	B29	C4	-
EC	B29	C1	-
ENCB	B29	C1	-
ENFL	B29	C1	-
ES	B29	C1	-
FL	B10	C1	-
FLI	B18	C1	-
FP	B29	C4	-
GI	B24	C2	-
GR	B24	C2	-
HD	B24	C2	-

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-
IAO	B19	C3	-
IAOB	C6	C6	D1
IAOF	C6	C6	D1
IEC	B62	C6	-
IMS	B24	C3	-
IMT	B28	C3	-
INC	B19	C3	-
INH	B19	C1	-
IR	B19	C3	-
IRL	B20	C6	-
ITDO	B19	C3	-
ITNP	B19	C3	-
ITP	B19	-	-
ITR	B1	C1	-
JSFI	C6	C6	D1
KR	C3	C3	-
LB	B30	C2	-
LCP	B62	C6	-
LCT	B48	C2	-
LD	-	C1	-
LDK	-	C1	-
LF	B17	C2	-
LHMT	B25	C2	-
LIDF	B30	C2	-
LIDM	B30	C2	-
LK2	B17	C2	-
LLAT	B30	C2	-
LLJ	B25	C2	-
LO	B2	C3	-
LOK	C3	C3	D1
LOLP	B19	C3	-
LPO,1,2	B29	C4	-
LPCK	C7	C7	D1
LR	B30	C2	-
LPFTO-5	B31	C1	-
LRFUO-9	B31	C1	-
LT	B19	C3	-
LVO	C3	C3	D1
LWLF	C7	C7	D1
LWLP	C7	C7	D1
M	B17	C2	-
MA	B62	C6	-
MBF	C6	C6	-
MISC	B19	C3	-
MLV	B19	C3	-

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-
MLVF	B19	C2	-
MLVM	B19	C2	-
MPT	B17	C2	-
MRL	B17	C2	-
MTT	B25	C2	-
NCW	C3	C3	D1
NCWC	C3	C3	D1
NRU	B48	C2	-
NRST	B62	C6	-
NSA	B48	C7	-
NTB	B17	C2	-
NTCW	C3	C3	D1
NTT	B17	C2	-
NTVB	C3	C3	D1
OFL	B18	C1	-
OGT	B19	C3	-
OPR	B29	C1	-
OR	B19	C3	-
ORIG	B19	C3	-
OTL	C6	C6	D1
P8X	B18	C1	-
PC	B24	C1	-
PE	B28	C2	-
PG	C3	C3	-
PLB	B29	C4	-
PLTO	B30	C2	-
PO	B30	C2	-
POF	B17	C1	-
POSC	B27	C1	-
POTS	B40	C3	-
PR	B29	C1	-
PRB	C3	C3	-
PRD	B1	C1	-
PRL	B24	C2	-
PRU	B1	C1	-
PSG	-	-	D1
PTR	B24	C2	-
PTT	B24	C3	-
RAOI-11	B25	C3	-
RATI,2	B25	C3	-
RBTI	B17	C2	-

DRAWING ISSUE 82D

ISSUE 90D

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D4A

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-D4A

CIRCUIT NOTES:

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-
RC	B29	C1	-
RCD	B48	C2	-
RCY	B25	C2	-
RDK	B3	C3	-
RDR	B3	C3	-
RI	B18	C1	-
RIP	B30	C2	-
RIW	C7	C7	D1
RL	B1	C1	-
RLH	C3	C3	D1
ROH	-	-	D1
RON	B25	C1	-
ROP	B28	C1	-
RP	B18	C1	-
RST	B62	C6	-
RT1K	C6	C6	D1
RT2K	C6	C6	D1
RTBL	B62	C6	-
RU1K	C6	C6	D1
RU2K	C6	C6	D1
RV	B3	C3	-
SA	B48	C2	-
SAC	B25	C2	-
SB	B17	C2	-
SD	B24	C2	-
SDR	B19	C3	-
SK1-5	B38	C4	-
SKA0	B38	C4	-
SKB0	B38	C4	-
SKFP	B38	C4	-
SKPF	B38	C4	-
SKS	B29	C4	-
SLK	B18	C2	-
SNR	-	C1	-
SPBL	B30	C2	-
SSC	B25	C2	-
ST	B29	C1	-
STL	GRD	GRD	-
STP	C3	C3	-
STT	C3	C3	-
SWAT	C6	C6	D1
TAN	B24	C1	-
TB	B17	C2	-
TBI	B18	C1	-
TCI	B17	C2	-
TCT	B17	C1	-
TCTA	B29	C1	-
TCTK	B62	C6	-
TCTR	B62	C1	-
TGTI	B1	C1	-
TIR	B30	C2	-
TKCK	C7	C7	D1
TLH	B25	C2	-
TLV	B19	C3	-
TLVF	B19	C2	-
TLVM	B19	C2	-
TNK	B29	C1	-
TOL	B24	C1	-
TP	B18	C1	-
TPO-2	B29	C4	-
TRF	B30	C2	-
TRL	B17	C2	-
TRLI	B17	C2	-
TSCT	B25	C3	-

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-
TSK	B17	C2	-
TST	B62	C6	-
TTC	B62	C6	-
TTI	C6	C6	D1
TTO	C6	C6	D1
TVK	B19	C3	-
TVT	B19	C3	-
ULF	C7	C7	D1
ULP	C7	C7	D1
VLB	C6	C6	D1
VLBK	C6	C6	D1
VLR	C6	C6	D1
VLRK	C6	C6	D1
WBLK	C6	C6	D1
WBTK	C6	C6	D1
WCK	C6	C6	D1
WHMO	C6	C6	D1
WHS	C6	C6	D1
WLVF	C6	C6	D1
WLVK	C6	C6	D1
WMB	C6	C6	D1
WMC	C7	C7	D1
WROL	C6	C6	D1
WRSK	C6	C6	D1
WRTL	C6	C6	D1
WTB	B19	-	-
WTK	C6	C6	D1
XFT	B17	C2	-
XM	B25	C1	-
XSK	B29	C4	-
XTSK	B17	C2	-
Z1,2,4,8	B19	C1	-
Z16,32,64	B19	C1	-

101.(E)

LAMP	FUSING ASSIGNMENT		
	CONTROL BAY		AUX CONTROL BAY
	OTHER THAN J23252AJ-	J23252AJ-	J23252BW-

DRAWING ISSUE 82D

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D48

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D48

CIRCUIT NOTES:

LOOP SIMILARLY DESIGNATED LEADS WHEN APPARATUS IS OMITTED

102.

PAR.	FEATURE OR OPTION			PROVIDE: APP FIG	APP OR WRG	QUANTITY
1	TEST START AND RELEASE CONTROLLER			1		1 PER CKT
2	MARKER, REGISTER & SENDER TEST CONTROLLER			2		1 PER CKT
3	TRUNK LINE VERIFICATION & LINE CONTROLLER			3		1 PER CKT
4	CALLED NUMBER			4		1 PER CKT
5	NUMBER CONNECTOR			5		1 PER CKT
6	LINE IDENTIFICATION			6		1 PER CKT
7	CLASS OF SERVICE, RINGING COMBINATION & LINE VERIFICATION			7		1 PER CKT
8	TRUNK LINK FRAME & TRK SELECTION			9		1 PER CKT
9	CHANNEL & JUNCTOR GROUP SELECTION			10		1 PER CKT
10	INCOMING CLASS			11		1 PER CKT
	INCOMING TRUNK NUMBER			12		1 PER CKT
11	MKR INC STAGE TEST CONTROLLER			13		1 PER CKT
12	TEST LINE CONTROLLER			14		1 PER CKT
13	CONTINUITY GROUND TEST			15		1 PER CKT
14	PBX HUNT AND NO TEST, TEST CONTROLLER			16		1 PER CKT
15	MISCELLANEOUS KEYS			17		1 PER CKT
16	MARKER AND TRANSVERTER SELECTION			81		1 PER CKT
17	AMA, CAMA, ANI NOT PROVIDED			A		
	AMA, CAMA OR ANI PROVIDED			8,20, 47	KH,N, NL,ZOX, ZZI	
	AND NO. OF DIGITS IN CODE FOR THIS OFFICE IS	NONE			ZA	
		ONE			ZB	
		TWO			ZC	
		THREE			ZD	
18	AMA OR CAMA OR AMA-ANI RECORDING FACILITY	NOT PROVIDED			ZOD, ZTS, ZXF, ZPQ	
		PROVIDED	PAPER TAPE	125, 126	ZOD, ZPQ, ZTS, ZXF, ZXH	
			MAGNETIC TAPE	127, 128, 132	ZTT, ZXG	
			TV CKT ARRANGED FOR ANI: YES			ZTV, ZPR, ZTW
			TV CKT ARRANGED FOR ANI: NO			ZPQ, ZOD
	ANI TRANSVERTERS PROVIDED			125, 126	ZOD, ZPQ, ZTS, ZXF, ZXH	
19	WHERE COIN SERVICE IS PROVIDED				K	ZPR
24	WHEN MARKER IS EQUIPPED WITH 2 STEP ALLOTTER (SEE NOTE 1240)				D, ZTR	
25	WHEN SPECIAL MARKERS ARE EQUIPPED WITH MESSAGE REGISTRATION POTENTIAL DETECTOR				ZR, YD	
28	WHEN MARKERS OPERATE WITH SENDERS			35		1 PER CKT
				36		1 PER SDR GR
					J	
29	WHERE PRETRANSLATORS ARE NOT PROVIDED			E		
	WHERE PRETRANSLATORS ARE PROVIDED			F		
30	WHEN INTERMARKER GROUP OPERATION IS PROVIDED			22		1 PER CKT

102.

PAR.	FEATURE OR OPTION			PROVIDE: APP FIG	APP OR WRG	QUANTITY
31	NO PULSE CONVERSION			G		
	PULSE CONVERSION			H		
32	WHEN INTERTOLL SWITCHING IS PROVIDED				ZQ	
34	WHERE LINE VERIF CKT (SD-26181-01) IS PROVIDED IN OFFICE AND SPECIAL MARKERS ARE OF WIRE SPRING TYPE (FIRST TWO TEST MARKERS)				SQ	
36	AUTO. MON REGISTER & SENDER TEST CKT	NOT PROVIDED TEST SET TYPE FACILITIES PROVIDED FOR TESTING ORIGINATING REGISTERS		31, 89	XJ	
		PROVIDED	MARKER GROUP HAS ONLY 2-WIRE LINES		XI, YI	
			4-WIRE LINES OR 2-WIRE AND 4-WIRE LINES PROVIDED	AUTO. MON ARRANGED FOR 4-WIRE	XI, YI, AK, AM	
				AUTO. MON NOT ARRANGED FOR 4-WIRE	XI, YI, RR, AJ, AL	
37	SENDER TEST CKT	PROVIDED		N		
		NOT PROVIDED		P	XZ	
39	6-WIRE RINGING SWITCHES ARE PROVIDED	AND NO 8 PTY LINES ARE PROVIDED			XS	
		AND 8 PTY BUT NO 10 PTY LINES ARE PROVIDED			XT	
		AND BOTH 8 PTY AND 10 PTY LINES ARE PROVIDED			XU	
40	FOREIGN AREA TRANSLATOR SELECTOR ARRANGED FOR A MAX. NUMBER OF FOREIGN AREAS OF	NONE		30	XV, MK	1 PER CKT
		3			XW, MK MM	
		6			XW, ML MN, MD	
		9			XW, ML MN, MP	
		12				

102.

PAR.	FEATURE OR OPTION			PROVIDE: APP FIG	APP OR WRG	QUANTITY
41	WHEN NUMBER GROUPS ARE ALLOTTED FOR LARGE PBX GROUPS			32		1 PER CKT
		PROGRAMMED LINE LINK PULSING PROVIDED FOR NO.5 ETS	NO		ZKF	
			YES		ZKG	
42	PROGRESS AND IDENTIFICATION LAMP CONTROL			143		1 PER CKT
	PROGRESS AND IDENTIFICATION LAMP BOOSTER			34		1 PER CKT
46	TEST OF SURGE OPERATION OF HOLD MAGNETS			38		1 PER CKT
47	WHERE THE OFFICE IS EQUIPPED WITH MORE THAN TEN SENDER GROUPS				TH	
48	CENTRALIZED AUTOMATIC MESSAGE ACCOUNTING	NOT PROVIDED			VY	
		PROVIDED		40, 41, 42, 44, 46	ZMF, VZ, SK, OU, AW	1 PER CKT
		CAMA POS OPERATORS LOCALLY LOCATED		Q		1 PER CKT
		CAMA POS OPERATORS REMOTELY LOCATED	LOOP SIGNALING	R	KQ	1 PER CKT
			E&M SIGNALING		KR	
		CAMA POS OPERATORS LOCATED BOTH LOCALLY AND REMOTELY		R	ZPP	1 PER CKT
		BOTH LOOP AND E&M SIGNALING (SEE NOTE 1244)		31, 89	ZOK	
		LOOP SIGNALING ONLY			KQ	
		E&M SIGNALING ONLY			KR	
		NO.5 ETS PROVIDED (SEE NOTE 1250)	NO		ZKP	
			YES		ZKL ZKM	
49	AUTO. NO. IDENT	NOT PROVIDED			SA	
		PROVIDED		48	SB	1 PER CKT
		AUTO. MON PROVIDED		93		1 PER CKT
		TV CKT- MAGNETIC TAPE RECORDING			ZPT	
		TV CKT- PAPER TAPE RECORDING OR ANI TV ONLY			ZPV, ZPS	
50	WHERE LINE LINKS GENERATE CLASS OF SERVICE ON CLASS UNITS AND CLASS TENS BASIS AND 1-20 RATE TREATMENTS ARE PROVIDED				RH, JJ	
51	4-WIRE LINES	NOT PROVIDED			ZMK	
		PROVIDED		49	RJ, ZML, ZMR, ZMS, ZMT	
		2-WAY OFF-NET ACCESS LINES PROVIDED (4-WIRE)			ZTB, ZTC	

102.

PAR.	FEATURE OR OPTION			PROVIDE: APP FIG	APP OR WRG	QUANTITY
52	ORIGINATING REGISTER GROUP SELECTION OR DIAL TRANSFER PROVIDED (FOR DIAL TRANSFER TRUNKS OR 1 TO 6 ORIGINATING REGISTER GROUPS)			124		1 PER CKT
54	CENTREX SERVICE PROVIDED			55, 56	PU, OP, LC, EH, BF	1 PER CKT
		TEST POSITION NOT PROVIDED			EM	
55	AMA OR ANI PROVIDED AND NO. OF OFFICE INDICES IS	10 OR LESS		57	GC, OD	
		MORE THAN 10			OC, OE	
56	NUMBER GROUP TENS BLOCK SCREENING PROVIDED			58	OZ, IW	
57	LINE LINK PULSING OR AUTO. INCPT USING LLP	NOT PROVIDED			ZYM	
		PROVIDED		60	DT, ZYN	1 PER CKT
58	TO DETECT LOCATION OF LINE LINK OR TRUNK LINE FRAME HAVING LOCKED TEST RELAY			61	DB	
60	OFFICE ARRANGED FOR AMA OR ANI OR BOTH	AMA TRANSVERTERS ONLY PROVIDED			CI, MV	
		COMBINED AMA-ANI TRANSVERTERS PROVIDED		100	MV, LB, CJ	
		ANI TRANSVERTERS PROVIDED		64	MZ, LA, CI	

DRAWING ISSUE	
69D	RF
70A	RF
71D	PX
73D	
75D	
78D	CB
80D	CB
83A	CB

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D5

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-D5

CIRCUIT NOTES:

102. (CONT)

PAR.	FEATURE OR OPTION			PROVIDE APP FIG	PROVIDE APP OR WRG	PROVIDE QUANTITY
61	OFFICE ARRANGED FOR ANI (AUTO. MON ALSO PROVIDED) OR CAMA			45		
	OFFICE ARRANGED FOR CAMA OR CENTREX OR BOTH			82, 164		
	OFFICE ARRANGED FOR CAMA, LINE LINK PULSING OR, AUTO. INCPT USING LLP			85		
63	OFFICE ARRANGED FOR 4-WIRE OR UNIVERSAL PAD CONTROL			76	ZYB, KP	
64	TRAFFIC SAMPLE CKT (SEE NOTE 1245)	PROVIDED		103, 130	KU	1 PER CKT
		CUSTOMER GROUP		77	ZXZ, ZYW	1 PER CKT
		SELECTED TRUNK GROUP		122	ZYV	1 PER CKT
		CUSTOMER GROUP & TRUNK GROUP		77 122	ZYV, ZXZ	1 PER CKT
		NOT PROVIDED			ZYW	
66	DIAL TRANSFER PROVIDED			86	IX	1 PER CKT
		LINE IDENTIFIER PROVIDED		87	ZPR, GJ, FJ, EJ	
			REMOTE CORD LINE TEST START PROVIDED		ZRX	
			WIDEBAND CENTREX OPERATION PROVIDED — NO		ZSF, ZSG, ZPU	
			WIDEBAND CENTREX OPERATION PROVIDED — YES		ZSE	
67	OFFICE ARRANGED FOR PAIRED LINE LINK OPERATION			90		
69	OFFICE ARRANGED FOR 4-WIRE OR DIAL TRANSFER			94	EQ	1 PER CKT

102.

PAR.	FEATURE OR OPTION			PROVIDE APP FIG	PROVIDE APP OR WRG	PROVIDE QUANTITY
70	PREFIX DIGITS	PREFIX DIGITS CONTROL PROVIDED BY MASTER TEST CONTROL CKT		116	YQ	
71	LINE LINK PULSING OR PBX BLOCK SELECTION HUNTING GROUP TEST CONTROL OR AUTOMATIC INTERCEPT USING LLP PROVIDED					
		NO			ZKD	
		YES		97	LD	1 PER CKT
		LINE LINK PULSING PROVIDED AND	PBX BLOCK SELECTION HUNTING GROUP TEST CONTROL — YES		ZJT	
			PBX BLOCK SELECTION HUNTING GROUP TEST CONTROL — NO		ZJT	
		NO. 5 ETS PROVIDED	NO		ZKD, ZKH	
			YES	173	ZKE, ZKI	1 PER CKT
74	AIOD TRANSLATORS PROVIDED (APP FIG 20 AND 57 PROVIDED	CONVENTIONAL PBX ONLY			CF, CX, DZ	
		101 ESS CONTROL UNIT ONLY			CF	
		BOTH CONVENTIONAL PBX AND 101 ESS CONTROL UNIT PROVIDED			DZ, CF, CX	
75	DIRECT ACCESS TO 101 ESS PROVIDED			101	CP, ZWT	1 PER CKT

102.

PAR.	FEATURE OR OPTION			PROVIDE APP FIG	PROVIDE APP OR WRG	PROVIDE QUANTITY
76	DUAL NUMBER GROUP OPERATION PROVIDED			104		1 PER CKT
77	ACCESS GROUP CONTROL OPERATION PROVIDED			105, 151	CU	1 PER CKT
				152		1 PER COMPL CKT
78	PBX BLOCK SELECTION HUNTING GROUP TEST CONTROL PROVIDED			107		1 PER CKT
79	OFFICE ARRANGED FOR TEST SET TYPE TESTING OF ORIGINATING REGISTER ARRANGED FOR TOLL DIVERSION			108		1 PER CKT
80	OFFICE ARRANGED FOR RANGE EXTENSION OF UNIGAUGE LINES	YES		109	ZNK, BY	1 PER CKT
		NO			BW	
81	OFFICE ARRANGED FOR CENTREX OR RANGE EXTENSION OF UNIGAUGE LINES				BV	
82	OFFICE ARRANGED FOR GLARE DETECTION			111	ZZX	1 PER CKT
83	MARKER CONTROLLED IMMEDIATE RING PROVIDED			113	NK	
		APTT NOT PROVIDED			ZMC	
		APTT PROVIDED			ZMD	
84	AUTO. INCPT USING LLP	PROVIDED			NA ZJD ZJI	
		NOT PROVIDED			ZJH	
85	SEE NOTE 1243					
87	TANDEM AMA PROVIDED (SEE NOTE 1242)	NO			ZLD	
		YES		117	ZLE, SJ, WV	1 PER CKT
89	OFFICE ARRANGED FOR PHASE III CENTREX			121		1 PER CKT
90	AMA, CAMA, ANI, OR IMMEDIATE GLARE TEST PROVIDED			129		
91	MARKER ARRANGED FOR TOLL DIVERSION			131	ZWD	1 PER CKT
92	2-WAY OFF NETWORK ACCESS LINES, CENTREX MULTILEVEL PRECEDENCE PREEMPTION 2-WAY TRUNK TEST, CENTREX CENTRALIZED ATTENDANT WITH LDN TRAFFIC ROUTED TO A PRIMARY OFFICE FROM A SECONDARY OFFICE	PROVIDED		133	ZWH	
		NOT PROVIDED			ZYG	

102.

PAR.	FEATURE OR OPTION			PROVIDE APP FIG	PROVIDE APP OR WRG	PROVIDE QUANTITY
94	CENTRALIZED ATTENDANT OPERATION (PHASE III CENTREX) PROVIDED				ZUK	
		7-DIGIT TRANSFER			ZVK	
95	CENTREX MULTILEVEL PRECEDENCE PRE-EMPTION 2-WAY TRUNK TEST PROVIDED	YES			ZUR	
		NO			ZUQ	
96	INTER-NATIONAL DIRECT DISTANCE DIALING (IDDD)	NOT PROVIDED			ZSR	
		PROVIDED	11 DIGITS		ZSR	
			AUTO. MONITOR WITH END OF DIALING (EOD) PROVIDED (SEE NOTE 1185)		ZVN, ZVO	
			12 DIGITS		ZVN, ZSO, ZSP	
			AUTO. MONITOR PROVIDED		ZVO, ZSQ	
97	CALL WAITING	NOT PROVIDED			ZTH	
		PROVIDED		145, 146	ZTI	1 PER CKT
99	DYNAMIC OVERLOAD CONTROL AND/OR EADAS/NM (FOR CONTROL OF ROUTES 20-39)	PROVIDED		140	ZQC	1 PER CKT
		NOT PROVIDED			ZQB	
100	REMOTE SELECTION FROM RC-JACKS PROVIDED	FOR MARKERS	NO		ZVY	
			YES		ZVZ	
		FOR TRANS-VERTERS	NO		BM	
			YES		BN	

ISSUE
690 BF
70A BT
710 BX
73D
74A
76D
77A
78D
79A
80D
81A
820
83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D6

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-D6

CIRCUIT NOTES:

102. (CONT)

PAR.	FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
101	PRETRANSLATORS FOR USE WITH INCOMING REGISTERS	PROVIDED	153	ZRR	1 PER CKT
		NOT PROVIDED		ZRS	
102	MORE THAN 2000 TRUNK NUMBERS	PROVIDED		ZQJ	
		NOT PROVIDED		ZQI	
103	MARKER ARRANGED FOR EXPANDED PERMANENT SIGNAL ROUTING (SEE NOTE 1256)	NO		ZPZ	
		YES	158	ZOA	1 PER CKT
105	* LOCAL AMA (LAMA) (SEE NOTE 1163)	PROVIDED			
		TV ARRANGED TO CANCEL CHECK OF OBS/NOB ON 2ND TRIAL		ZPN	
		CAMA PROVIDED		ZNE	
		TV NOT ARRANGED TO CANCEL CHECK OF OBS/NOB ON 2ND TRIAL		ZWA	
		NOT PROVIDED		ZWA	
106	COMPUTER LINE VERIFICATION ACCESS CKT PROVIDED (CLVA)	NO		ZNH	
		YES		ZNI	
107	OFFICE ARRANGED FOR LAMA-C OR NO.5 ETS	NO		ZNV	
		AMA PROVIDED		ZJW	
		YES		ZNX, ZMB	
		LAMA-C (SEE NOTE 1248)	172		1 PER CKT
		NO.5 ETS		ZOF	
		PROGRAM CONTROLLED TRANSVERTER CKT PROVIDED (SEE NOTE 1238) (ANI OPERATION ONLY)			
		NO	A		1 PER CKT
		YES (SEE NOTE 1248)	170, 171	ZKC, ZMV	1 PER CKT
109	TRAFFIC SAMPLING AND/OR CANCEL CHECK OF (OBS) AND (NOB) ON SECOND TRIAL (FORMERLY NOTE 1163)	NOT PROVIDED		ZWB	
		PROVIDED		ZWC	
110	LINE LINK PULSING OR AUTO INCPT USING LLP OR PHASE III CENTREX TEMPORARY INCPT		165	ZLJ	1 PER CKT
111	PROGRAMMED TRUNK SELECTION FOR NO. 5 ETS PROVIDED (SEE NOTE 1246)	NO		ZLK, ZLM	
		YES	166, 167	ZLL	1 PER CKT
		OPERATION WITH GENERIC 5X2 AND LATER PROVIDED — NO		ZIK	
		OPERATION WITH GENERIC 5X2 AND LATER PROVIDED — YES		ZIL	

102.

PAR.	FEATURE OR OPTION		PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
112	PROGRAMMED CLASS OF SERVICE SELECTION FOR NO. 5 ETS PROVIDED (SEE NOTE 1247)	NO		ZKA	
		YES	168, 169	ZLQ	1 PER CKT
113	DIAL TRANSFER WITH LINE IDENTIFIER AND/OR OFFICE ARRANGED FOR LAMA-C OR NO.5 ETS WITH PROGRAM CONTROLLED TRANSVERTER CKT. PROVIDED AND/OR AMA OR CAMA OR AMA-ANI RECORDING FACILITY WITH MAGNETIC TAPE RECORDING AND TV CKT IS ARRANGED FOR ANI			ZMU	
114	POST NO 5 ETS-LLP AND/OR LLP-AIS	YES	177, 178	ZJW	1 PER CKT
		NO		ZMJ	
115	AUXILIARY LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO. 5 ETS			ZJY	
116	CALL DATA TRANSMITTER	NO		ZIC	
		YES	179	ZID	1 PER CKT
117	MINI-ROTL INTERFACE PROVIDED (SEE NOTE 1260)			ZIG	

102.

PAR.	FEATURE OR OPTION	PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY

102.

PAR.	FEATURE OF OPTION	PROVIDE APP FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY

DRAWING ISSUE 800

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-D7

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-D7

CIRCUIT NOTES (CONT)

103. RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
	FIGS 21	FIGS 19	153, 1175	FIGS 21		FIGS 19
4D	FIG.E OR FIG.F	FIG.E	102 (29), 135 (29)	FIG.E, FIG.F		
6D	FIG.22	NONE	102 (30)	FIG.22		
	FIG.G OR FIG.H	FIG.G	102 (31)	FIG.G, FIG.H		
7A	ZN	NONE	105, 141	ZN		
	ZQ	NONE	102 (32)	ZQ		
	ZY OR ZZ	ZY		ZZ		ZY
8D	ZL OR ZM	ZL	111	ZM		ZL
	ZO OR ZP	ZO	106, 147	ZP		ZO
	ZR	B OR NONE	102 (25)	ZR		B
	ZS OR ZT	ZS		ZT		ZS
	ZU OR ZV	ZU		ZV		ZU
	YA OR YB	YA		YB		YA
	YC OR YD	YC	102 (25)	YD		YC
9D	FIG.23	NONE	196	FIG.23		
	FIG.J OR FIG.K	FIG.J	110, 138, 141	FIG.K		FIG.J
	FIG.L OR FIG.M	FIG.L		FIG.M		FIG.L
	ZG,YZ, XA OR XB	ZG	135 (34)	YZ,XA, XB		ZG
	YE OR XE	YE	196	YE,XE		
	YH OR YI	YH	102 (36)	YI		YH
	YJ OR YK	YJ		YK		YJ
	YL OR YM	YL		YM		YL
	YT,YU OR XD	YT AND XD	108	YU		YT,XD
	YV,YW, YX,YY	YV	135 (34), 135 (35), 138,139	YV,YW, YX,YY		
	XC	NONE		XC		
11D	FIG.24, YN,YP OR XX	YN	102 (38), 135 (38)	FIG.24, YP,XX		YN

CIRCUIT NOTES (CONT)

103. (CONT) RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
11D	FIG.25, FIG.26, FIG.27, FIG.28, FIG.29, FIG.32, FIG.33	NONE	102 (38), 102 (41), 102 (42), 115, 135 (38), 1176	FIG.25, FIG.26, FIG.27, FIG.28, FIG.29, FIG.32, FIG.33		
	FIG.30, XF,XV, XW OR XY	XF	102 (40), 135 (40)	FIG.30, XF,XV, XW,XY		
	FIG.31, FIG.N, FIG.P, XI,XJ, XP OR XZ	(XI AND XZ) AND FIG.P AND (YT OR YU) AND (YX OR NONE)	102 (36), 135 (35), 102 (37)	FIG.31, FIG.N, FIG.P, XI,XJ, XP,XZ		
	ZW OR ZX	ZW	112	ZX		ZW
	YF,YG OR YO	YF	102 (38), 135 (38), 134	YF,YG, YO		
	YR OR YS	YR	110, 141, 153	YS		YR
	XG OR XH	XG	114 8 123	XH		XG
	XK	ZZ	107	XK		ZZ
	XL OR XM	YW OR TV	135 (34)	XL,XM		
	XN OR XO	XN	113	XO		XN
	XQ,XR,XS, XT OR XU	XQ AND XS	102 (39), 1103	XO,XR, XS,XT, XU		
	RELAYS			U1323		U539
	RELAYS			U519		U1210
13D	FIG.35, FIGS.36	FIG.8 AND FIGS.36	102, (28), 116	FIG.35, FIGS.36		FIG.8, FIGS.18
	FIG.34	NONE	102 (42), 115, 1180	FIG.34		
	WA OR WB	WA		WB		WA
	WC,WD, OR WG	NONE	135 (35), 135 (43)	WC,WD, WG		
	WE OR WF	WE		WF		WE
	WH OR WM	ZZ AND WM	135 (34), 118	WH		WM
	WI OR WJ	WI	135 (45)	WI,WJ		
	WK OR WL	WK		WL		WK

CIRCUIT NOTES (CONT)

103. (CONT) RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
13D	WO OR WP	WO	124	WP		WO
	WQ OR WR	WQ	119	WR		WQ
14B	WY OR WZ	WY	123, 153	WZ		WY
	VA,VB, VC OR VD	WO AND VA OR WP AND VC	120	VD		VA,VB, VC
15D	WN	NONE	110	WN		
16D	FIG.37, VH OR VI	VH	135 (34)	FIG.37, VH,VI		
	FIG.38, VK OR VL	VK	102 (46), 135 (46), 123	FIG.38, VK,VL		
	VE OR VJ	VE	102 (38) 122, 135 (38)	VE,VJ		
	VF OR VG	VF	121	VG		VF
	VV	NONE	144	TV		
17B	VN,VO, VP OR VQ	WO AND VP OR WP AND VN	124	VO		VN,VP, VQ
18D	WS,WT, TT OR TU	WS AND TU	125	WT,TT	TU	WS
	WU	B AND WU, OR ZR OR NONE				WU
	WW OR WX	WW	125	WX		WW
	VM	NONE	135 (47)	VM		
19AR	VR OR VS	VR		VS		VR
20B	UF OR UG	UF	128	UG		UF
	UX OR UY	UX	127	UY		UX
	UZ OR TA	YG AND UZ OR NONE	136	TA		UZ
21D			135 (34)	FIG.37		
			135 (17)	FIG.D		FIG.C
	FIG.S OR FIG.T	FIG.S	130	FIG.T		FIG.S
	FIG.U FIG.V UM OR UN	FIG.U AND UM	131	FIG.V, UN		FIG.U, UM
			135 (26) 1101	Z,Y,X, W,V,U, T		
			135 (21)	S,R,Q		
			133		P	
			135 (17)	M,H		
			132		A	
			135 (22)	ZF		

CIRCUIT NOTES (CONT)

103. (CONT) RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
21D			135 (34), 151, 155	ZH		
			135 (29)	ZJ,ZJ, ZK		
			134		YQ	
			135 (34) 135 (35) 159(D)	YX,YY, YZ		
			135 (34) 151	XB		XA,XL XM,VH
			135 (40)	XY		XF
			135 (35) 159(D)			XP
			135 (38)	XX		
			135 (35) 159(D)	WC, WG		
			135 (43) 159(E)	WD		
			135 (44)	WM		
			135 (45)	WJ		WI
			135 (34) 155	VX		
			135 (46) 123	VL		VK
VT OR VU	VT		129	VU		VT
VV OR VW	NONE		102 (38) 129	VV,VW		
UK OR UL	UK		130	UL		UK
UO	NONE		131	UO		
22D	FIG.39	FIG.28 OR NONE	102 (38)	FIG.39		FIG.28
	FIG.40, FIG.41, FIG.42, FIG.43, FIG.44	NONE	102 (48)	FIG.40, FIG.41, FIG.42, FIG.43, FIG.44		
	FIG.45	NONE	102 (61) 1173	FIG.45		
	FIG.Q OR FIG.R	NONE	102 (48)	FIG.Q FIG.R		
	FIG.W OR FIG.X	FIG.W		FIG.X		FIG.W
			138, 139	YW		YV
	VX	YY OR NONE	141	VX		YY
	US	VM OR NONE	125	US		VM

DRAWING ISSUE

	LAST CHG	ADDED
51D		
53D		
56D		
62D		
65A		
73D		
76D		
80D		

ISSUE 95A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D8

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP. FIG., WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	
220	VY OR VZ	VY	102 (48), 141	VY,VZ			
	UH	NONE		UH			
	UI OR UJ	UI	138, 141, 153, 164	UJ		UI	
	UP,UT,UU OR UV	UP AND (YW AND UT) AND (UU OR NONE)	137, 138	UP,UU, UV		UT	
	UQ OR UR	UQ		UR		UQ	
	UW,TK OR TL	TL	138, 141	UW,TK		TL	
	TB,TC OR SQ	TB	102 (34), 140, 143	TC,SQ		TB	
	TD OR TE	TD	140	TE	TD		
	TH	NONE	102 (47)	TH			
	TR OR TS	TR	138	TS		TR	
	SO OR SP	YG AND SP OR YF AND SO	140	SP		SO	
	RA	NONE		RA			
238	TF,TG, TI OR TJ	WO OR WP AND (VC AND TI) OR WP AND (VD AND TI)	120	TF,TG, TI,TJ			
288	TM OR TN	TM	141	TN		TM	
	TW OR TX	TW		TX		TW	
294	TY OR TZ	TY	138, 141, 145, 164	TZ		TY	
308	TP OR TQ	TP		TQ		TP	
318	SE OR SF	WN AND SE OR NONE	145	SF		SE	
	SK	NONE	102 (48)	SK			
320	FIG.46	FIG.40 WITH FIG.46 OR NONE	177, 102, (48)	FIG.46			
	FIG 47 SC OR SD	FIG.44 WITH SC OR NONE	1119, 102, (17)	FIG.47, SD		SC	
	SA OR SB	SA	102(49)	SA,SB			
	FIG.48	NONE	102 (49)	FIG.48			
350	SM OR SN	SM	146	SN		SM	

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP. FIG., WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	
370	SR	ZO OR NONE	147	SR			
	SV,SW OR SX	SV	148	SW,SX		SV	
38A	SS OR ST	SS AND (UP OR NONE)	149	ST		SS,UP	
	SU	NONE	138	SU			
398	SY,SZ OR RQ	SY	140, 141	SZ,RQ		SY	
410			150	G		F,E	
	RB OR RC	RB	151	RL		R3	
	RD OR RE	RD	151, 155	RE		RD	
	RF OR RG	RF	151, 155	RG	FIG.37, VI,RF		
	RH	NONE	102, (50), 155	RH			
	QG,QH	QG	158	QH		QG	
430	FIG.52	FIGS.19 OR FIGS.21	102 (16), 153, 1175	FIG.52		FIGS.21	
	FIG.49, RJ OR RR	NONE	102 (36), 102 (51)	FIG.49, RJ,RR			
	FIG.50 OR RK	RK	102 (52)	FIG.50, RK			
	FIG.51 OR RP	NONE		FIG.51, RP			
			156	TI,VD		TG,TJ	
	RI OR MX	RI	153	MX		RI	
	RL	NONE		RL			
	RM OR RN	RM		RN		RM	
	RO OR MY	RO	153	MY		RO	
	RS OR RT	RS	153	RT		RS	
	RU OR RV	(WD WITH RU) OR NONE	154	RV		RU	
	RX,RY,RZ QQ,QR OR QS	QQ AND (RG WITH RX) AND QR OR VH AND (RF WITH RY) OR VI,FIG. 37 AND (RF WITH RY)	151, 153, 155	RX,QS	RY,RZ	QQ,QR	
	QE OR QF	QE	179	QF		QE	

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP. FIG., WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	
440C	QA,QB, QC OR QD	(XI WITH QB) OR NONE AND (E AND QC) OR (F AND QC) OR (G WITH QA AND QC)	157	QD		QA,QB, QC	
440	FIG.57	FIG.C OR FIG.D	102 (55)	FIG.57		FIG.D	
	FIG.53 OR FIG.54	(FIG.40 WITH FIG.53) OR NONE	165	FIG.54	FIG.53		
	FIG.55 OR FIG.56	NONE	102, (54) 161 1111, 1112	FIG.55 FIG.56			
	QI OR QJ	QI OR (XI OR SN) AND QJ	159 (A) 146	QJ		QI	
	QK,QL OR QM	(XI WITH QK), (FIG. 22 WITH QL) OR (XI, FIG.22 AND QM)	159 (A), 159 (B)	QM		QK,QL	
	QN OR QO	QN OR (FIG.N AND QO)	159 (C)	QO		QN	
	QP, OR LH	NONE	151, 166		QP	LH	
	QT	ZO OR ZP	106, 147, 165	QT		ZP	
	QU,QV OR QW	(FIG.F WITH QV)	151	QV		QU,QW	
	QX OR QY	QX	161	QX		QY	
	QZ	QZ OR WC OR (YX OR XP) OR NONE	159 (D)	QT		YX,WC	
	PA OR PB	(WD AND WJ WITH PB) OR WD OR (WJ AND PA)	159 (E)	PB		WD,PA	
	PC OR PD	PC OR (M AND PD)	159 (F)	PD		PC	
	PE OR PF	PE OR (FIG.32 AND PF)	115	PF		PE	
	KV OR KW	KV	186	KW		KV	

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP. FIG., WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	
480	PG	UH OR (PG AND SZ)	140	PG		UH	
	PK OR LO	SX OR NONE AND LO	161, 163	PH		SX,LO	
	PI,PJ OR PK	(FIG.35 WITH PI), (FIG.48 WITH PJ) OR (FIG.35 AND FIG. 48) WITH PK	164	PK		PI,PJ	
	PL,PM OR PN	(FIG.B WITH PL), (FIG.F WITH PM) OR (FIG.B AND FIG. F) WITH PN	159 (G)	PN		PL,PM	
	PO OR PP	NONE	161, 1111, 1127	PP		PO	
	OC,OD OR OE	OD	102 (55)	OC,OD, OE			
	OH OR OI	OH	160	OI		OH	
	OJ OR OK	OJ	161	OJ		OK	
	OU OR OV ON,OP, OQ OR LT	ON	102 (54), 160, 161 1111	OP,LT		ON,OQ	
	OU OR OV	OU OR NONE	102 (48), 1108	OU,OV			
	LC	NONE	102 (54), 1111	LC			
	LI, LJ OR LK	(M WITH LI) OR NONE	162	LJ,LK		LI	
	LM OR LN	LM OR NONE	162	LN		LM	
	LU OR LV	LU	160	LV		LU	
490	FIG.58 OR OZ	NONE	102 (56)	FIG.58, OZ			
	PS,PT OR PU	PT AND (OP WITH PS) OR NONE	102 (54) 1111	PU		PS,PT	
	CH	SR WITH CH OR ZO OR NONE	147, 161	CH			
	PV OR PW	PV		PW		PV	
	PX OR PY	FIG.49 WITH PX OR NONE	163	PY		PX	

DRAWING ISSUE		
51D	FMU	AMD
52A	WAS	AMD
53D	GEM	AMD
560	EM	AMD
57A	EM	AMD
59A	ASL	AMD
620	JAR	AMD
670	SAV	AMD
760	SLK	
800		

80

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D9

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-D9

STABILO

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
	PZ OR OA	MY WITH PZ	168	OA		PZ
	OF OR OG	MX WITH OF		OG		OF
	OL OR OM	FIG.51 WITH OL OR NONE		OM		OL
	FIG.59, SL	NONE	102 (53)	FIG. 59,SL		
	LP OR LQ	LP	169	LQ		LP
	OW,OX OR OY	OW AND (QH WITH, OX) OR OW&QG	170	OY		OW,OX
490	FIG.60, OT	NONE	102 (57)	FIG. 60,OT		
	FIG.61, OB,MI	NONE	102 (58) 172	FIG. 61,OB MI		
	OR,OS	OR	167, 177	OS		OR
	MA OR MB	MA	171	MB		MA
	MC OR MD	FIG. 51 WITH MC OR NONE	171	MD		MC
	FIG.62, ME	NONE	102 (59)	FIG. 62,ME		
	MF,MG OR MH	FIG.39 WITH MF OR NONE	173	MG,MH		MF
	MJ	NONE	102 (51), 174	MJ		
	MK OR ML	MK OR NONE	102 (40)	MK,ML		
	MM	(XW WITH MM) OR NONE		MM		
	MN,MO OR MP	XV OR XW		MN,MO MP		
	FIG.63	FIG.43 OR NONE	102 (48), 102 (57), 175, 165	FIG. 63	FIG. 43	
	JO	RX WITH JO OR NONE	151, 155, 167, 177	JO		
	GZ OR FA	RD OR RE WITH GZ	197	FA		GZ
	CI,CJ, FIG.100	CI	102 (60)	CI,CJ, FIG.100		

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORD DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
	MQ OR MR	(LT WITH MQ) OR NONE	1124	MR		MQ
	MS	NONE	1124	MS		
	MT OR MU	SA WITH MT OR SB WITH MU		MT		MU
	MV,MW,OR MZ,FIG. 64	MV OR (FIG. 46 WITH MW)OR BOTH	102 (60)	MV MZ, FIG. 64		MW
	LA,LB,OR LD	SB WITH LA OR NONE	102 (49), 102 (60)	LA, LB, LD		
490	FIG.65	NONE	177		FIG. 65	
	DA OR DB, LE OR LF	FIG. 49 WITH DA & LE OR NONE	102 (70), 174, 1113, 1114	DB, LF		DA, LE
	LG,LL LR OR LS	LG AND (YL OR YH WITH LL) AND (QE OR QF WITH LR)	178	LR,LS		QF, LG, LL
	LW	RT WITH LWOR NONE	153, 179	LW		
	DQ OR DR	FIG.N WITH DQ AND/OR UV WITH DR OR NONE	167			DQ, DR
	ZYM,ZYN	FIG.M WITH ZYM OR NONE	102 (57)	ZYM, ZYN		
	GT OR BZ	FIG.M WITH GT OR NONE	197	BZ		GT
	BO, BP, ZTU	ZYU & (OR) OR (ND WITH BO)	102 (57)	BO BP ZYU		
	KEYS			490C		490A
510	FIG. 66	NONE	102 (62)	FIG. 66		
			180	PT		PK
	LX,LY FIG. 93	FIG.45 WITH LX OR NONE	1102, 180, 102, (49)	LY FIG.93	LX	
	LZ,KA, KB OR KC	SA WITH LZ & KC OR SB WITH KA	180, 1102	KC,KC	KA, LZ	
	KD OR KE	VY WITH KD OR VZ WITH KE			KD,KE	

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
	KF,KG OR KH	FIG.B WITH KF AND FIG.20 WITH KG OR NONE AND SC OR SD OR NONE	102 (17), 180	KH	KF, KG, SD	
	KI OR KJ	UI OR UJ AND KI	180	KJ		KI
510	FIG.67,68 69,70,71, 72,73 OR 74,75 OR KK,KL OR KM	FIG.2 WITH FIG.67 & 75 AND FIG.3 WITH FIG.68 AND FIG.22 WITH FIG.69 OR KL AND FIG.41 WITH FIG.70 OR KD AND FIG.B WITH FIG.71 OR FIG.A WITH KM AND FIG.F WITH FIG.72 OR FIG.E AND FIG.N WITH FIG.73 OR FIG.P	182	FIG. 74,KK	FIG. 69,70, 71,72, 73,75	FIG. 67,68, KL,KM
51D	KN	NONE	183	KN		
	FIG.76 CB, CC,KO, KP OR GM	FIG.49 WITH KO & FIG.76 WITH CB OR NONE	102 (63), 184, 185, 199	CC,GM, KP, FIG.76		CB, KO
	KQ OR KR	FIG.R WITH KQ OR NONE	102 (48)	KQ,KR		
	FQ OR FR	FQ	184	FR		FQ
	FIG.78	FIG.S OR FIG.T		FIG.78		FIG.T
	EY OR EZ	FIG.49 WITH EY OR NONE		EZ		EY
	ZYJ	WK OR WL		ZYJ		
	GA,GB, ZYK, ZYL	WP WITH GA OR WO WITH ZYK	190	GB	ZYL	GA, ZYK

CIRCUIT NOTES (CONT)

103. (CONT)

RECORD OF APP FIG., WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD
		KX; Z WITH KY OR NONE; Y WITH KZ OR NONE; X WITH JA OR NONE; W WITH JB OR NONE; V WITH JC OR NONE; U WITH JD OR NONE; T WITH JE OR NONE; RB OR RC; RD OR RE; ZF OR NONE; JG; RG WITH JH OR RY; ZG,XA OR XB; QE,QF OR LS WITH IB; ZM WITH JK OR NONE; WD,PA OR PB OR NONE; M WITH JN OR NONE; H OR NONE; WK OR WL				
510	KX,KY,KZ JA,JB,JC JD,JE,JF JG,JH,JK JN,IB		182 (H)	JF	RC	KX,KY KZ,JA JB,JC JC,JE JG,JH JK,JN IB,RE XB,PB WL,H ZF
	JI OR JJ	RH WITH JI OR NONE	102 (50)	JJ	JI	
	JL OR JM	WJ WITH JM OR WI WITH JL		JL		JM

DRAWING ISSUE

51D	JAT FMH AHD
52A	GA FMH AHD
53D	EM FMH AHD
55A	LPH FMH AHD
56D	EM FMH AHD
57A	EM FMH AHD
58D	KLL AHD
59A	ALL AHD
60D	DPH AHD
61A	JLC EM AHD
62D	LF RAV AHD
64A	WMF RLP AHD
65D	DX IB AHD
66A	DX IB AHD
68A	DSK

DRAWING REFURNISHED WITHOUT CHANGE 2-20-68 ESM

800

ISSUE 101A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D10

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D10

STABILO

CIRCUIT NOTES: (CONT)

103. (CONT)

RECORD OF APP FIG. WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD
	JP,JQ	FIG.49 WITH LE OR LF OR NONE; FIG.49 AND MJ WITH JP OR NONE		JQ		LF,JP
	JR,JS	FIG.56 WITH JR OR NONE		JS		JR
	JT,JU	FIG.57 WITH JT OR NONE		JU		JT
	JV,JW	FIG.58 WITH JV OR NONE		JW		JV
	JX, JY	FIG.60 WITH JX OR NONE		JY		JX
	JZ,IA	FIG.62 WITH JZ OR NONE		IA		JZ
51D	FIG. 79 OR 80	FIG.U OR FIG. V WITH FIG.79		FIG.80		FIG.79
	FIG.81	FIG.19, 21 OR 52	102 (16), 1175	FIG.81		FIG.52
	FIG.83 OR 84	FIG.8 OR FIG. 35 WITH FIG.83		FIG.84		FIG.83
	FIG.85	FIG.43 OR FIG. 63 OR NONE	102 (61), 175	FIG.85	FIG.63	
	IK,IL	FIG.48 WITH IK OR NONE	180, 1102	IL	IK	
	IQ,IR	FIG.40 WITH IQ OR NONE	180, 1102	IR	IQ	
	IS, IT	FIG.41 AND TN WITH IS OR NONE	180, 1102	IT	IS	
	GC,GD OR GE	LK OR NONE; FIG.37 WITH GC OR NONE	162	GE	GD	GC LK
	FIG. 82	FIG. 53 FIG. 54 OR NONE	102 (61), 160	FIG. 82		FIG.54
	ZOP, ZOQ	ZU OR (ZV WITH ZOP)	1137	ZOQ		ZOP
	IH OR IL	RH WITH IH OR NONE	187	II		IH
53D	IE,IJ,IX, RW, FIG. 86	NONE	1112, 187, 102 (66)	IE, IX, FIG. 86	IJ, RW	
	IU OR IV	FIG. 55 WITH IU OR NONE	1111, 1112	IU	IV	
	FIG. 88	FIG. 20 WITH FIG. 88 OR NONE	102 (65)	FIG. 88		
	IW	NONE	102(56), 187, 1115	IW		
	IC OR ID	IC	187	ID		IC
	IF OR IG	IF	187	IG		IF
	FIG. 97 LD	FIG. 60 WITH FIG. 97 AND OT WITH LD OR NONE	102 (71)	FIG. 97, LD		
	FP,DH OR DP	DH & OZ WITH FP OR NONE	192, 1115	DP		FP, DH

CIRCUIT NOTES: (CONT)

103. (CONT)

RECORD OF APP FIG. WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD
	IY	NONE	187, 1115	IY		
	FU, FV, OR IZ	FIG. 58 WITH (JV WITH FU)	187, 1115	IZ	FV	FU
	GF OR GG	FIG. 37 WITH GF OR NONE	191		GF, GG	
	FIG.77	NONE	102 (64)	FIG.77		
	KU	NONE	102 (64)	KU		
			191		GZ,RE	
	GH,GI, GK OR GL	GH AND FIG.78 WITH GK AND JF WITH GL	192	GI		GH, GK, GL
	FIG.87, GJ	NONE	102 (18), (66)	FIG.87, GJ		
	IM,IN, IO OR IP	NONE	102 (66), 1112	IN, IP	IM, IO	
53D	GN OR GO	FIG.8 WITH GN OR FIG. A	194	GO		GN
	GP OR GQ	FIG.31 WITH GP OR NONE	195	GQ		GP
	GR,GS OR ET	FIG.49 WITH GR OR NONE	195, 1110	GS, ET		GR
	GU	FIG.55 WITH GU OR NONE	1111		GU	
	GV OR GW	LT WITH GV OR NONE	187	GW		GV
	FIG.94	FIG.49 WITH FIG.94 OR NONE	102 (69)	94		
	EN OR EP	RI WITH EN OR MX WITH EP	1110	EP		EN
			1209			VH,VE
	EQ	RJ WITH EQ OR NONE	102 (69)	EQ		
			196	FIG. 23, XE		YE
	DF OR DG	DF	192, 1115, 1131, 1121	DG		DF

CIRCUIT NOTES: (CONT)

103. (CONT)

RECORD OF APP FIG. WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD
	EO OR ER	RI OR MX WITH EO	1110	ER		EO
	CL	NONE	1120, 1115	CL		
	ZWB, ZWC	FIG. 103 &ZWB	102 (109)	ZWC		ZWB
	EU OR EV-	FIG.49 WITH EU OR NONE	1110	EV		EU
	EW OR EX	FIG.49 WITH EW OR NONE	1110	EX		EW
	EB OR EC	EB	189	EC		EB
	ED,EE OR EF	RH WITH ED & EE OR NONE	1107,	ED, EF		EE
			1108		OV	
	FK OR FL	RO OR MY WITH FK	168	FL		FK
53D	FIG.92, FM	FIG.51 WITH (FIG.92 AND OL OR OM) OR NONE	102 (53), 1105, 168, 171	FIG.92, FM		OM, RP, FIG.51
	FIG.110, TO	NONE	MI, 102, (59)	FIG.110, TO		
	FS OR FT	KX WITH FS	187		FT	FS
	AY OR AZ	VY WITH AY OR VZ WITH AZ	1132	AZ		AY
	EA	NONE	102 (66), 187	EA		
	PQ OR PR	FIG. 55 WITH PQ	1111	PR	PQ	
	FIG. 91	FIG. 31 WITH FIG. 91 OR NONE	1104, 1106	FIG. 91		
	ZNE	NONE	102 (105)	ZNE		
	ZWA,ZPN	FIG. 20 WITH ZWA OR NONE	102 (105)	ZWA, ZPN		
	ZNP	YF WITH ZNP OR NONE	102 (38), 1209	ZNP		YF
	ZNQ	YP WITH ZNQ OR NONE	102 (38), 1209	ZNQ		YP
	ZMM	YG WITH ZMM	1209	ZMM		
54B	FIG. 89	NONE	102 (38), 193	FIG. 89		
	GX OR GY	FIG.56 WITH GX OR NONE	160	GY		GX
56D	FIG.90	NONE	102 (67)	FIG.90		
	FB OR FC	FB	198	FC		FB
	FD	NONE	102 (68)	FD		
	FE OR FF	FE	1101	FF		FE
	FG	U OR NONE	1101	FG		U
	ZOI, FIG 159	SN WITH ZOI	102 (20)	ZOI, FIG.159		

CIRCUIT NOTES: (CONT)

103. (CONT)

RECORD OF APP FIG. WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD
	EG OR EH	NONE	102 (54), 1106, 1111	EG, EH		
	EI OR EJ	NONE	102 (66), 1106, 1112	EI, EJ		
	EK OR EL	EK	1109	EL		EK
	EM	NONE	102 (54)	EM		
			155			RT,RZ
56D	FIG.95	FIG.49 WITH FIG.95 OR NONE	1113, 1114	FIG.95		
	ZOJ	FIG.27 WITH ZOJ	102 (20)	ZOJ		
	FH OR FI	FH	1101	FI		FH
			1103	XR		XQ
	FJ	NONE	102 (66), 1106	FJ		
	FW OR FX	FW	1106	FX		FW
	FY OR FZ	FIG.87 WITH FY OR NONE	1106	FZ		FY
	FIG.96	FIG.95 OR NONE	102 (70), 1114	FIG.96		FIG.95, JQ
	DC	MJ WITH DC				DC
	DD	NONE	102 (70), 1114	DD		
58D	DI OR DJ	DI	1115	DJ		DI
	DK,DL, CG	QE;QF; OR (LS WITH DK) AND IB OR (JF WITH DL AND CG)	1115	CG		DK, DL
	DM	RI OR MX WITH DM	1115			DM
	BI	RJ WITH BI OR NONE	1115			BI
	BJ	FIG. 49 WITH BJ OR NONE	1115			BJ
	FIG. 107, BL	FIG. 97 WITH (BL & JX OR JY)OR NONE	102 (78), 1128	FIG. 107, BL		JY

DRAWING ISSUE

530	EM EN EP
548	EM EN EP
560	EM EN EP
57A	EM EN EP
580	EM EN EP
59A	EM EN EP
600	EM EN EP
61A	EM EN EP
630	EM EN EP
64A	EM EN EP
66A	EM EN EP
72A	EM EN EP
760	EM EN EP
79A	EM EN EP
800	EM EN EP

ISSUE 94D

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-D11

BELL TELEPHONE LABORATORIES INCORPORATED — 65

SD-25800-01-D11

STABILO

CIRCUIT NOTES:

103. (CONT)

RECORD OF APP FIG , WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
58D	DN	FIG.24 WITH DN OR NONE	1115, 1138, 1258			DN	
	FIG.98, FIG.99	NONE	102 (72)	FIG.98, FIG.99			
	CK OR DO	CK	102 (72)	CK, DO			
	CM,CN	FIG.58 WITH(FU, FV OR IZ) OR NONE	187, 1115	CN	CM	IZ,FV	
	KS OR KT	FIG.58 WITH KS OR NONE	1115	KT		KS	
	DS OR DT	KH WITH DS OR NONE	1115	DT		DS	
	DU OR DV	GQ WITH DU	1115	DV		DU	
	ES	GR,ET OR NONE	1115	ES		ET	
			180, 1115	KI		KJ	
	DW OR DX	(FIG.57 WITH DW & JT OR JU) OR FIG.C OR FIG.D	1116	DX		DW, JU	
	DY OR DZ	(FIG.20 WITH WE OR WF) OR NONE	102 (74), 1116	DY,DZ		WF	
	CA	NONE	1117	CA			
	CD OR CE	RH WITH CD OR NONE	1118	CD,CE			
	CF	FIG.57 WITH KN OR NONE	102 (74), 183	CF		KN	
	AS OR AT	TD WITH AS OR TE WITH AT	1136	AS, AT			
	AU,AV OR AW	VY WITH AU OR VZ WITH AV	1136, 102 (48)	AU, AW, AV			
	NR,NS	FIG.L OR FIG.M, WITH NR	1136	NS		NR	
	BG OR BH	KH WITH BG OR NONE	180	BH		BG	
	ZZL,ZZM	YS WITH ZZL OR NONE	110,141, 153, 192, 1132	ZZM		ZZL	
	ZXI, ZXJ	ZXI	153	ZXJ		ZXI	
60D	UA,UB, UC,UD, UE	UD; FIG.56 WITH UA OR NONE; LM WITH UB OR LN WITH UC	1122, 1148	UE		UA, UB, UC, UD	
			156			TF	
	FIG.101, CV,CW, CP	CV OR NONE	102 (75), 1121	FIG.101 CP, CW		CV	
	CO	NONE	1121, 1123	CO			
	FIG.102, CQ OR CR	CQ	1122	CQ			CR, FIG.102

CIRCUIT NOTES:

103. (CONT)

RECORD OF APP FIG , WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
600	FIG.103, CS OR CT	FIG.77 WITH (FIG.103 AND CS) OR NONE	102 (64), 1122	FIG. 103, CS			CT
	FIG.104	FIG.49 WITH FIG.104 OR NONE	102 (76)	FIG. 104			
	CX	NONE	102 (74)	CX			
	BB,BC OR BD, FIG.106	BB	1126	BB			BC,BD FIG. 106
62D	NL	B WITH NL OR NONE	1141, 102 (17)	NL			
	NI OR NJ	UV WITH NI AND YW WITH NJ OR NONE	1125		NI, NJ		
	BK	NONE	1131	BK			
	SG,SH	UI OR UJ WITH SG	1134, 1168	SH		SG	
	ZZQ	IX WITH ZZQ OR NONE	187, 1149	ZZQ			
	FIG.105, CU	NONE	102 (77)	FIG. 105, CU			
	CZ OR BA	CZ	1123	BA		CZ	
	ZYO,ZYP	ZYO	1131	ZYP		ZYO	
	BE OR BF	FIG.55 WITH BE OR NONE	1127, 102 (54)	BF	AX	BE	
	BQ OR BR	"OR" OR OS WITH BQ	1129	BR		BQ	
	BS,BT OR BU	FIG.31 WITH BS AND FIG.91 WITH BT OR NONE	1130	BU		BS, BT	
	FIG.108	NONE	102 (79)	FIG. 108			
	BV	NONE	102 (81)	BV			
	BW OR BY	BW	102 (80)	BW, BY			
	FIG. 109	NONE	102 (80)	FIG. 109			
	AA, AB, AE	AA AND (CV OR CW WITH AB) OR NONE	1121	AE		AA, AB	
	AC OR AD	FIG.101 WITH AC OR NONE	1121	AD		AC	
	AF OR AG	QP WITH AF OR NONE	166, 1132		AG	AF	
	AH OR AI	DI OR DJ WITH AH	1121, 1132	AI		AH	
			1136		AT, AV		
630	ZMC, ZMD	ZMC	102(83)	ZMC,ZMD			

CIRCUIT NOTES:

103. (CONT)

RECORD OF APP FIG , WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
63D			138, 141, 161, 1125		QX		
	ZXS	IM WITH ZXS	1125, 1112		ZXS		
	ZXY, ZXT, ZXU	PP WITH ZXT OR QQ OR PO WITH ZXY	1127	ZXT	ZXY, ZXU		
	ZXV, ZXW, ZXX	ZXW AND CL WITH ZXV	1127	ZXX		ZXV, ZXW	
	ZWZ, ZVA	VZ WITH ZWZ	1145, 1167	ZVA	ZWZ		
	ZUL, ZUM	FIG. D WITH ZUL	1125		ZUM	ZUL	
	ZUN, ZUO	FIG. 57 WITH ZUN	1125	ZUO		ZUN	
	ZUP	NT	1125		ZUP		
	ZXO	NONE	102(83)	ZXO			
	FIG.113, NK	NONE	102 (83)	FIG.113, NK			
	NA	NONE	102, 1168, 1258	NA			
	NM,NC, ND,NE, NF,NG, NH	NH; "OR" OR (OS WITH ND AND NE); FIG.97 WITH NB;MH WITH NC	167, 177, 1138, 1168, 1258	ND, NF	NG	NB, NC, NH, NE	
			1139	VR	VS		
	NM OR NN	NM	1138, 1142	NN		NM	
	AJ OR AK	MX WITH AJ OR RI WITH AK	102 (36)	AK, AJ			
	AL OR AM	FIG.49 WITH AL OR NONE	102 (36)	AM, AL			
	FIG.112, AN, FIG.116, YQ	FIG.95 OR FIG.96 OR NONE	1134, 1135, 102 (70)	FIG.112 AN FIG.116 YQ		FIG.96 DB,DD, MJ	
	AQ,AP, AQ,AR	FIG.76 WITH(CC WITH AP OR NONE)	102 (72) 1135	AQ, AQ, AR		AP	
	FIG.111, ZZX	NONE	102 (82)	FIG. 111, ZZX			
	ZZA, ZZB, ZZC	FIG.100 WITH ZZA & ZZC OR NONE	1126, 1143			ZZA	ZZB, ZZC
	ZZD, ZZE	BD WITH ZZD & ZZE OR NONE	1143, 1126			ZZE	ZZD
	OO	WI OR WJ WITH	1145, 1125		OO		
	ZYQ, ZYR	ZYQ	1161	ZYR		ZYQ	
	NO	UP OR UV WITH NO	138, 1125	NO	UU,UV, YW		
	NP	NP	1125			NP	
	NQ,NT	NT	1125,1258	NQ		NT	
	ZXR	KX OR JF	1125		ZXR		

CIRCUIT NOTES:

103. (CONT)

RECORD OF APP FIG , WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
63D	NU	AA OR AE WITH NU	1125, 1145, 1258		NU		
	NV	"OR" OR OS WITH NV			NV		
	NW	VY OR VZ WITH NW			NW		
	NX	FIG. G OR FIG. H WITH NX			NX		
	NY	IX WITH NY OR NONE			NY		
	NZ	FIG.55 WITH NZ OR NONE			NZ		
	FN	FIG.86 WITH FN OR NONE			FN		
	FO	XI WITH FO OR NONE			FO, WG, WH		
			1125, 1144		ZE		
			108, 1125		YU		
			107, 1125		XK		
			148, 163, 1125		SW,PH		
			149, 1125		ST		
			154, 1125		RV		
			159, 1125		QZ		
			158, 1125		QH		
			170, 1125		QY		
			189,1125 1258		DE,EC		
			1125 1145		FA	JL	
	DE	DM,(DJ WITH DE) OR NONE	1115 1138, 1258	DE			
	ZZN, ZZO, ZYF, FIG.118	(BD WITH ZZN) & FIG.106 WITH ZYF OR NONE	1126			ZZN, ZYF	FIG. 118, ZZO
	ZZZ, ZYA	NONE	184, 1153	ZZZ, ZYA			
	ZYC OR ZYB	FIG.76 WITH ZYC OR NONE	1153, 102 (63)	ZYB		ZYC	
	ZYD, ZYE	ZYD	1153	ZYE		ZYD	
	FIG.114, ZZP	FIG.99 WITH FIG.114 AND ZZP OR NONE	102 (85), 1208	FIG. 114, ZZP			
	CY	KX OR JF WITH CY	1125			CY	
			1125, 1145		IP		
	ZTU	FIG 20 WITH ZTU OR NONE	1125			ZTU	

DRAWING ISSUE	
63D	WM KLP AND
64A	WM KLP AND JEK
65D	JEK T&L AND
66A	JEK I.W AND
67D	IW
68A	IW
73D	
74A	
800	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-D12

SD-25800-01-D12

CIRCUIT NOTES:

103. (CONT)

RECORD OF APP FIG, WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
63D	FIG. 124	G AND (RK OR FIG.50)	1151, 102 (52)	FIG.124		RK, G, FIG.50	
	ZYY	IN WITH ZYY	1112, 1125		ZYY		
	ZYZ	UW WITH ZYZ	1125		ZYZ		
	ZXA	IF OR IG WITH ZXA	1125, 187		ZXA		
			138, 1125		SU		
	ZXB	TZ WITH ZXB	1125		ZXB		
	ZXC	FIG. 60 WITH ZXC	1125		ZXC		
	ZXD	FIG. 41 WITH ZXD	1125		ZXD		
	ZXE	WW OR WX	1125	ZXE	WX		
	ZSI	NONE	1125	ZSI			
650	FIG.133, ZYG OR ZWH	ZYG	102 (92)	FIG.133, ZYG, ZWH			
	SI, SJ, WV	FIG. 49 WITH SI AND RJ WITH WV OR NONE	102 (87), 1147	SJ,WV		SI	
	ZZI	FIG.20 WITH ZZI	102 (17)	ZZI			
	ZZR, ZZS	FD WITH ZZR OR NONE	1150	ZZS		ZZR	
	ZZT, ZZU	ZZT	1150	ZZU		ZZT	
	ZYH OR ZYI	UF WITH ZYH	1154	ZYI		ZYH	
	FIG.117	FIG.49 WITH FIG. 117 OR NONE	102 (87)	FIG. 117			
	FIG.149, ZZY	G AND RK,FIG. SO, OR FIG.124	1151, 102 (52)	FIG. 119, ZZY			
	FIG.120, ZZV, OR ZZW	ZZV	102 (88)	FIG.120, ZZV, ZZW			
	FIG.121	FIG.87 WITH FIG. 121 OR NONE	102 (89)	FIG. 121			
	FIG.129	FIG.20 WITH FIG. 129 OR NONE	102 (90)	FIG. 129			
	ZNA, ZNB	(YG OR ZRU WITH ZNA	102 (87)	ZNA, ZNB			
67D	ZPR	GJ WITH ZPR OR NONE	102 (18), (66)	ZPR			
	ZOD, ZTV, ZTW	ZOD	102 (18)	ZTV, ZTW, ZOD			
	ZPQ	FIG.B WITH ZPQ OR NONE	102 (18)	ZPQ			
	ZPS, ZPT	SB WITH ZPS OR NONE	102 (49)	ZPS, ZPT			
	ZPV	KH WITH ZPV OR NONE	102 (49)	ZPV			

103.

RECORD OF APP FIG, WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
67D	FIGS. 125,126, 127,128, 132,ZXF, ZXG	FIG.20 WITH (FIG.125, 126 AND ZXF)	102 (18)	FIGS. 125,126, 127,128, ZXF,ZXG, 132			
	FIG.130	NONE	102 (64)	FIG. 130			
	FIG.131	NONE	102 (91)	FIG. 131			
	ZZJ, ZZK	ZZJ	1155, 1180	ZZK		ZZJ	
	ZXH	FIG.B WITH ZXH	102 (18)	ZXH			
	ZXK, ZXL	FIG.39 WITH ZXK OR NONE	1158	ZXL		ZXK	
	ZXM, ZXN	ZXM	1158	ZXN		ZXM	
	ZTK	NONE	102 (17)	ZTK			
	ZWD	NONE	102 (91)	ZWD			
	ZWG	NT OR NQ WITH ZWG	1125	ZWG			
			1160	BP		ZYU,BQ	
	ZVG	NONE	1157,1158, 1180, 1216	ZVG			
	FIG.122, ZYV,ZYW	ZYW OR NONE	102 (64)	FIG.122, ZYV,ZYW			
	FIG.123, ZYS,ZYT	NONE	102 (86)	FIG.123, ZYS,ZYW			
	ZVH, ZVI	(FIG. 8 OR 35) WITHZVH	1157, 1172	ZVI		ZVH	
	ZNK, ZXP, ZXQ	FIG.109 WITH ZXP	102 (80), 1158, 1226, 1232	ZNK, ZXQ		ZXP	
	ZNQ	NONE	102 (38)	ZNQ			
			102 (18)	ZWA			
	ZTS,ZTT	ZTS	102 (18)	ZTS, ZTT			
	ZWE,ZWF	ZWE	1165	ZWF		ZWE	
69D	ZWI	FIG.106 WITH ZWI	1126			ZWI	
	ZWJ	FIG.118 WITH ZWJ	1126			ZWJ	
	ZWL	BD WITH ZWK	1126			ZWL	
	ZXZ	NONE	102(64), 1162	ZXZ			
	ZWK	BD WITH ZWK	1126			ZWK	
71D	ZPM	NONE	102 (93)	ZPM			
	ZTF	NONE	1166	ZTF			
	FIG.134, 135,136	NONE	102 (93)	FIG.134, 135,136			
			1121				
			102(93), 1166	ZZA			
	ZWM, ZWN	ZWM	102 (93)	ZWM, ZWN			
	ZWO	NONE	102 (93)	ZWO			
	ZWP, ZWQ	JF WITH ZWP	1166	ZWQ		ZWP	
	ZWR, ZWS	FIG.78 WITH ZWP	1166	ZWS		ZWR	
	ZWT, ZWU	FIG.101 WITH ZWT	102 (75)	ZWT, ZWU			
	ZWT, ZWU	FIG.101 WITH ZWV	102 (38)	ZWV, ZWW			
			102 (93)	BD			

103.

RECORD OF APP FIG, WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
71D	ZWX	FIG.17 WITH ZWX	102 (93)	ZWX			
	ZTM	KX WITH ZTM	1166			ZTM	
	ZWY	YG WITH ZWY	102 (78)	ZWY			
	ZUA	NONE	1166	ZUA			
	FIG.139	NONE	102 (93)	FIG.139			
	ZUC, ZUD	ZUC	1166,1258	ZUD		ZUC	
	ZUE	NONE	1166	ZUE			
	ZQG	BD WITH ZOG OR NONE	102(93), 1126, 1166				ZQG
	FIG.137, 144,ZVC	ZVC	1168	ZVC	FIG. 137,144		
	ZVB	NONE	1168		ZVB		
	ZVD	NH OR (NF WITH ZVD)	1138, 1168	ZVD			
	ZVE,ZVF	ZVE	868,1216, 1258	ZVF		ZVE	
			1168, 1258		NB,NC, NE		
	ZVK	FIG.87 OR NONE	102 (94), 1169	ZVK			
	ZVL, ZVM	JF WITH ZVL	1170	ZVM		ZVL	
	ZVN	NOKE	102 (96)	ZVN			
	ZVO	XI	102 (96)	ZVO			
	ZQS	NONE	1168		ZQS		
	ZUF, ZUG, ZUH	ND WITH ZUF & IG WITH ZUG	1169	ZUH		ZUF, ZUG	
	ZUI, ZUJ	IN WITH ZUI	1169	ZUJ		ZUI	
73D	ZUK	NONE	102 (94)	ZUK			
	ZUQ, ZUR	SP WITH ZUQ OR NONE	102 (95)	ZUQ, ZUR			
	ZTB, ZTC	NONE	102, (51), 1177	ZTB, ZTC			
			1172				
	ZTD, ZVJ	FIG.58 WITH ZTD OR NONE	1169	ZTD	ZVJ		
	ZTE, ZTG	NONE	1178	ZTE, ZTG			
74A (AC)	ZVP	XX WITH ZVP	1125			ZVP	
75B	ZUS, ZUT	FIG.120 WITH ZUS	1174	ZUT		ZUS	
	ZUU	NONE	1174	ZUU			
	ZUV, ZUW	ZZW WITH ZUV	1174	ZUW		ZUV	
76D	ZUX, ZUY	FIG.(19 OR 21) WITH ZUY	1175		ZUX	ZUY	
	ZUZ, ZTA	FIG.81 WITH ZUZ	1175	ZTA		ZUZ	
	FIG.145, 146	NONE	102 (97)	FIG.145, 146			

103.

RECORD OF APP FIG, WIRING AND APPARATUS CHANGES							
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
76D	ZTH, ZTI	ZTH	102 (97)	ZTH, ZTI			
	FIG 138, ZUB	NONE	1171, 1179	FIG 138, ZUB			
	FIG.143	FIG.33 OR NONE	102 (42), 115, 1176, 1180	FIG.143		FIG.33	
			1175		FIG.21		
	ZTN,ZKX, ZTO	ZTN,UY WITH ZKX	1180	ZTO		ZTN, ZKX	
	FIG.148, 149	NONE	1180	FIG. 148, 149			
	ZSS, ZQH	ZSS	1179	ZQH		ZSS	
	ZQR	NONE	1179	ZQR			
			1179, 1204	ZTK			
	ZPO	RT WITH ZPO OR NONE	1180	ZPO			
	ZTX, ZTY	FIG.107 WITH ZTX	1181	ZTY		ZTX	
	ZTZ	FIG.60	1181	ZTZ			
	ZSA	FIG.107 AND FIG.60	1181	ZSA			
	ZSB	FIG.107	1181	ZSB			
	FIG.150	NONE	1182	FIG.150			
	ZSK, ZSL	ZSK	1184	ZSJ, ZSL		ZSK	
	ZSM, ZSN	FIG.58 WITH ZSM OR NONE	1184	ZSN		ZSM	
	ZRI	NONE	1184	ZRI			
	ZSJ	ZYS OR NONE	1184, 1156	ZSJ		ZYS	
	ZVQ	FIG.2 WITH ZVQ	1171			ZVQ	
	ZVR	FIG.3 WITH ZVR	1171			ZVR	
	ZVS	XI WITH ZVS	1171			ZVS	
	ZVT	FIG.22 WITH ZVT	1171			ZVT	
	ZVU	FIG.F WITH ZVU	1171			ZVU	
	ZVV	FIG.B WITH ZVV	1171			ZVV	
	ZVW	FIG.56 WITH ZVW	1171			ZVW	
	ZVX	FIG.41 WITH ZVX	1171			ZVX	
	ZJA, ZJB	"OR" WITH ZJA OR ND WITH ZJB OR NONE	1180, 1258	ZJB		ZJA	

DRAWING ISSUE	
65D	JD, IA, AM
66A	JD, IA, AM
67D	JM
68A	JM
DRAWING REFURBISHED WITHOUT CHANGE 2-20-68 SLK	
69D	EM
70A	EM
71D	JM
72A	JM
73D	
74A	
75B	
76D	
77A	
78D	
79A	
80D	
81A	
82D	
83A	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D13

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D13

CIRCUIT NOTES: (CONT)

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
	FIG.140	NONE	102 (99)	FIG. 140			
	FIG.151, 152	FIG.105 OR NONE	102 (77) 1187	FIG. 151,152			
	ZPU	FIG. 87 WITH ZPU OR NONE	102 (66)	ZPU			
	ZSC	NONE	1183	ZSC			
	ZSD	NONE	1183	ZSD			
	ZSE	ZSF & ZSG OR NONE	102 (66)	ZSE			
	ZSF	IN WITH ZSF	102 (66)	ZSF			
	ZSG	GJ WITH ZSG	102 (66)	ZSG			
	ZSH	NONE	1183		ZSH		
	ZSO	NONE	102 (96)	ZSO			
	ZSP,ZSR	ZSR	102 (96)	ZSP, ZSR			
78D	ZSQ	NONE	102 (96)	ZSQ			
	ZST,ZSU	FIG.105 WITH ZST	1181, 1187	ZSU		ZST	
	ZSV,ZSW	FIG.105 WITH ZSV	1187	ZSW		ZSV	
	ZSX	NONE	1187	ZSX			
	ZSY	CU WITH ZSY	1187			ZSY	
	ZSZ,ZRA	ZSZ	1189	ZRA		ZSZ	
	ZRB	NONE	1189	ZRB			
	ZRC,ZRD	FIG.21	1190		ZRC, ZRD		
	ZRE,ZRF	FIG.52 WITH ZRE	1190		ZRF	ZRE	
	ZRG,ZRH	FIG.81 WITH ZRG	1190	ZRG, ZRH			
	ZRJ,ZRK	ZRJ & (ZSC WITH ZRK)	1183	ZRK		ZRJ	
	ZQB,ZQC	ZQB	102 (99)	ZQB, ZQC			
	ZQD	NONE	1193	ZQD			
	ZQG ZQH	ZWN WITH ZQG OR ZWM	102 (93)	ZQG, ZQH			
	ZQU,ZQV	ZQU	1199	ZQV		ZQU	
	ZQT	ZSB OR NONE	1181		ZQT		
	ZRT	FIG.135 WITH ZRT OR NONE	1192			ZRT	
80D	ZRU, ZRV, ZRW	YG WITH ZRU,FIG. 27&FIG. 35 WITH ZRV OR NONE	102 (38), 1192	ZRW		ZRU, ZRV	
	ZRY,ZRZ	ZRY	102(38), 1192	ZRZ		ZRY	
	ZQA	NONE	1192	ZQA			
	FIG.154	FIG.27,28, 39,159 OR NONE	102 (38), 1192	FIG. 154		FIG.27, 28, 159	
	ZQW	NONE	1200	ZQW			
	ZRL,ZRM	FIG.52 WITH ZRL OR NONE	1191		ZRM	ZRL	
	ZRN	ZRC & FIG.21 OR NONE	1191		ZRN		
	ZRQ	NONE	1191		ZRQ		
	ZRP,ZRQ	FIG.81 WITH ZRP OR NONE	1191	ZRQ		ZRP	
	ZRR	NONE	102(101)	ZRR			
	ZPW,ZPX	ZPW	1195	ZPX		ZPW	

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
	FIG.153, ZRS	FIG.F WITH ZRS OR NONE	102 (101)	FIG. 153, ZRS			
	ZQI,ZQJ	LN WITH ZQI OR NONE	102 (102)	ZQI, ZQJ			
	ZQK	NONE	1195	ZQK			
	ZQL	UQ WITH ZQL OR NONE	1195	ZQL			
	ZQM	ZO WITH ZQM OR NONE	1195	ZQM			
	ZQN	XI WITH ZQN OR NONE	1195, 1196	ZQN			
	ZQY,ZQO	FIG.129 WITH ZQY OR NONE	1197	ZQO		ZQY	
	ZQP,ZQQ	ZQP OR NONE	1198	ZQQ		ZQP	
			110			110	
	ZQX	NONE	107(17) 1200	ZQX			
80D	ZQZ	NONE	1202		ZQZ		
	ZPA,ZPB	FIG.90 WITH ZPA	1201	ZPB		ZPA	
	ZPC,ZPD	ZYR WITH ZPC, OR ZYQ	1197	ZPD		ZPC	
	ZPY	CL WITH ZPY OR NONE	1115, 1120, 1127, 1166, 1191	ZPY		CL	
	ZPW,ZPX	ZPW	1195	ZPX		ZPW	
			1192, 1217			ZNA, ZNB	
	ZOT	NONE	1200	ZOT			
	ZNN	FIG. 27 AND (XI OR SN) WITH ZNN				ZNN	
	ZIH,ZII	DH WITH ZIH OR DP WITH ZII	1192	ZII		ZIH	
	BM,BN	BM	102 (100)	BM,BN			
820	ZPL	ZWN WITH ZPH OR NONE	102 (93)	ZPL			
			1205				
	ZPH,ZPI	ZWN WITH ZPH OR NONE	102 (93)	ZPH, ZPI			
	ZPJ,ZPK	NONE	102 (93)	ZPJ, ZPK			
	ZVY,ZVZ	ZVY	102 (100)	ZVY, ZVZ			
	FIG 155, ZYX, ZNL	ZNL	1208	ZNL	FIG 155,ZYX		
84D	ZNM	ZZW WITH ZNM	1208			ZNM	
			1208	ZZV	ZUU, ZUT, ZUW	FIG 119,120, ZZW,ZZY	
	ZTL	NONE	1206	ZTL			
86D	ZJQ, ZJR	ZUC WITH ZJQ,ZUD WITH ZJR OR NONE	1166, 1210	ZJR	ZJQ		
	ZLG	FIG 119	1208		ZLG		
	ZLH, ZLI	FIG 120 WITH ZLH OR NONE	1208 (N)		ZLI	ZLH	

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
	FIG.156, ZPE,ZPF	ZPE	1208	ZPE	FIG. 156,ZPF		
	FIG.158, ZOA, ZPZ	ZPZ	102 (103)	FIG. 158, ZOA, ZPZ			
	ZON	NONE	1102		ZON		
	ZOS	ZZY WITH ZOS OR NONE	1208			ZOS	
86D	ZOU, ZOV	FIG.31 WITH ZOU	1208	ZOU	ZOV		
			1211				
	ZKJ, ZKK	ZTN WITH ZKJ OR ZTO WITH ZKK	1180, 1210	ZKK		ZKJ	
	ZNC, ZND	ZNC OR NONE	1210	ZND			
	APP FIG. 176,ZJM, ZJN,ZJO, ZJP,ZME	NONE	1256	APP FIG. 176,ZJC, ZJM,ZJN, ZJO,ZJP, ZME			
	ZMP	RJ WITH ZMP	1221			ZMP	
	ZMQ,ZMR	(49 & EZ) WITH ZMQ OR NONE	102 (51), 1221	ZMR		ZMQ	
	ZMS,ZMT	BI WITH ZMS,BJ WITH ZMT OR NONE	102 (51)	ZMS, ZMT			
	BX FIG.160	BX	1208	BX	FIG. 160		
				DS,DU, PV		DT,DV, PW	
	ZMK, ZML	PV WITH ZMK AND PW WITH ZML	102 (51), 1224	ZMK, ZML			
	ZOR	FIG.13 WITH ZOR	1213			ZOR, XR, XS, XT, XU	
	ZOX, ZOY	ZOX	1138, 1168, 1216	ZOY		ZOX	
88D	ZOZ	ND WITH ZOZ	167, 177, 1138, 1168	ZOZ			
			1216	NH		ZVD	
	ZNF	ZSJ OR ZYS OR NONE	1184, 1218	ZNF		FIG. 123, ZYT,ZSJ	
						FIG.102, CR,CT	
			1219			FIG.62, 110,ME, TO,IA	
			1220			FIG. 112,AN	
			1221	AP		FIG.98, 99,AO, AQ,AR,DO	
			1222	RO		MY	
			1223			FIG.59, 92,SL	
			168			FL,FM, OA	
			1224				
	ZNG	DJ OR DL	1225	DI,DK, DM,ZNG		DJ	

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	SPL
	ZQE ZQF	FD WITH ZQE OR NONE	1186	ZQE	ZQF		
89A (AC)	FIG.163	FIG.88 OR NONE	1215	FIG. 163		FIG. 88	
	FIG.164 ZOE	FIG.82 WITH ZOE OR NONE	102 (61) 1127	FIG. 164		ZOE	
	ZNH,ZNI	FIG.154 OR NONE	102 (106), 1236	ZMH, ZNI			
			1228			ZNO, ZMP, ZNQ	
	ZNW	NONE	1184	ZNW			
	ZMB, ZNV	ZNV	102 (107)	ZNV, ZMB			
900	ZNY	FIG. 20 WITH ZQW		ZMY			
	ZMA, ZNZ	FIG.114 WITH ZNZ OR NONE	1230	ZMA		ZNZ	
	ZNX	NONE	102 (107)	ZNX			
			1231				
	ZMH,ZMI	FIG. 39 WITH ZMH	1236		ZMI	ZMH	
91A (AC)	ZNR,ZNS	FIG.148 WITH ZNR OR NONE	1229	ZNS		ZNR	
	ZNT,ZNU	ZNT	1180, 1229	ZNU		ZNT	
			1226			ZXO	
92D	ZMF	NONE	102 (48), 1234	ZMF			
			1235				
93A (AC)	ZMG	NONE	1192	ZMG			
	ZMV	NONE	102 (107)	ZMV			
94D			102 (109)	ZWB, ZWC			
	ZMU	ZPR WITH ZMU OR NONE	102 (113)	ZMU			
95A (AC)	ZMW,ZMX	ZMX	1239	ZMX	ZMW		
	ZLA,ZLB	ZLB	1241	ZLA		ZLB	
968	FIG. 165	FIG. 60 WITH FIG 165 OR NONE	102 (110)	APP FIG. 165			
	ZLJ	OT WITH ZLJ OR NONE	102 (110)	ZLJ			
	ZZH	NONE	1195		ZZH		
	ZOF	FIG. 20 WITH ZQW OR ZNY OR NONE	102 (107)	ZOF			

78D
80D
82D
83A

ISSUE 107A

CIRCUIT NOTES: (CONT)

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	USE IN CIRCUIT A&M	USE IN CIRCUIT MD
	Z00	NONE	1245	Z00		
	APP FIG. 166,167, ZLK,ZLL, ZLM	ZLK	102 (111)	APP FIG. 166,167, ZLK,ZLL, ZLM		
	ZRX	NONE	102(66)	ZRX		
	ZTJ,ZTP, ZTQ,ZTR	D WITH ZTQ	102 (24), 1240	ZTP,ZTR		ZTJ,ZTQ
	LAMPS			MI		ZY
	ZZF,ZZG	DI WITH ZZF OR DJ WITH ZZG	1240	ZZG		ZZF
96B	ZLN,ZLO	KU WITH ZLN OR NONE	1245	ZLO		ZLN
	APP FIG. 168, 169, ZKA, ZLQ	ZKA	102 (112)	APP FIG. 168, 169, ZKA, ZLQ		
	ZLS, ZLR, ZLU, ZLT	RY WITH ZLR	1247	ZLS, ZLU, ZLT		ZLR
	ZLV	NONE	1247	ZLV		
	ZLP	APP FIG. 39	1247		ZLP	
	ZLW, ZLX	RF OR NONE	1247	ZLW, ZLX		
	ZLY	RD WITH YW OR XL	1247		ZLY	
	ZLZ	RD WITH UU	1247		ZLZ	
	ZKB	NONE	1247		ZKB	
	ZIA, ZIB	ZXB WITH ZIA	1125, 1247		ZIA, ZIB	
	ZIJ	NONE	1247	ZIJ		
	ZPP	APP FIG. 40 OR NONE	102 (48)	ZPP		
	ZOL,ZOM	APP FIG. 44 WITH ZOL	1244	ZOM		ZOL
97A (AC)	ZOK	NONE	102 (48)	ZOK		
	ZMN,ZMO	NONE	1244	ZMD	ZMN	
	ZLC	QU OR QV OR QW OR NONE	1242	ZLC		
	ZLF	OK OR OJ			ZLF	
	ZLD, ZLE	JF WITH ZLD	102 (87)	ZLD,ZLE		

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	USE IN CIRCUIT A&M	USE IN CIRCUIT MD
	APP FIG. 173, ZKD,ZKE	ZKD	102 (71)	APP FIG. 173, ZKD,ZKE		
	ZKF, ZKG	APP FIG. 32 WITH ZKF	102 (71)	ZKF, ZKG		
	ZKH	APP FIG. 97 WITH ZKH	102 (71)	ZKH		
	ZKI	APP FIG. 166 OR NONE	102 (71)	ZKI		
	ZKL, ZKM	APP FIG. 169	102 (48)	ZKL, ZKM		
	ZKN, ZKO	ZVA, WITH ZKN	1250	ZKN, ZKO		
98B	ZKP	APP FIG. 40 WITH ZKP	102 (48)	ZKP		
	ZKR,ZKS APP FIG. 174	APP FIG. 27 WITH ZKR	1192		ZKS APP FIG. 174	ZKR
			1192		APP FIG. 39,159, MF,MG, ZXK,ZXL ZWV,ZWW ZRT,ZMH	
	ZKT,ZKU	ZKT	1249	ZKU		ZKT
	ZKV, ZKW	APP FIG. 86 WITH ZKV OR NONE	1251	ZKW		ZKV
	ZKY,ZKZ	ZKY	1254	ZKZ		ZKY
	ZOW,APP FIG. 175	NONE	1253	APP FIG. 175 ZOW		
	APP FIG. 170,171, 172,ZKC	APP FIG. A	102 (107) 1248	APP FIG. 170,171, 172,ZKC	ZNY	
	ZJC,ZJE	NONE	1255, 1256, 1259		ZJC,ZJE	
	ZJF,ZJK	NB AND NE OR NF WITH ZJK	1255, 1258	ZJF		ZJK
	ZJH, ZJI	NONE	102(84), 1216, 1255, 1258	ZJH, ZJI		
99A (AC)	ZJJ	NONE	1255		ZJJ	
	ZJG	ZQS WITH ZJG	1216, 1255, 1258	ZJG		
	ZJL	ZVD, WITH ZJL	1216, 1255,			ZJL
			1216, 1255, 1258	ZVD		NH
	ZJD	NONE	102(84), 1255	ZJD		
100B	RESISTORS			KS-20289, L6C		144E
				KS-20810, L1A		106A,107A, 145A,145C, 221A
101A (AC)	ZJS,ZJT	APP FIG. 97 WITH ZJS OR NONE	102 (71)	ZJS,ZJT		

103.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	USE IN CIRCUIT A&M	USE IN CIRCUIT MD
			1126, 1257	ZPH, ZWM,ZWX, ZWY		APP FIG. 66,106, 118,134, 135,136, 139,PC, BO,ZOG, ZOH,ZPI, ZPJ,ZPK, ZPL,ZPM, ZQG,ZSD, ZWN,ZWO, ZWU,ZZA
102B	APP FIG. 177,178, ZJW,ZMJ	OR OR ZOZ WITH ZMJ	102, (114)	APP FIG. 177,178, ZJW,ZMJ		
	ZJU, ZJV	OR WITH ZJU OR NO WITH ZJV	167, 177, 1255, 1258	ZJV		ZJU
	ZJX	OR OR OS WITH ZJX	167, 177, 1258	ZJX		
	ZJY	NONE	102 (115)	ZJY		
	ZJZ	NONE	1258		ZJZ	
104B	ZIC,ZID, APP FIG 179	ZIC	102 (116)	ZIC,ZID APP FIG 179		
	APP FIG 180: ZIE, ZIF	(APP FIG 137 OR 144) WITH ZIE OR NONE	1255 B		APP FIG 180: ZIE, ZIF	
106B			1261			
	ZIG	NONE	102, (117), 1260	ZIG		
	ZNJ	ZNJ	1258	ZNJ		
107A (AC)	ZIK, ZIL	ZIK	102, (111)	ZIK, ZIL		

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

SD-25800-01-D15

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

CIRCUIT NOTES: (CONT)

104.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAP IN UF
1	500	0.3
2	150	0.5
3	500	0.1

105. WHEN PULSE CONVERSION IS REQUIRED, "ZN" OPTION MUST BE FURNISHED IN EXISTING OFFICES.

106. WHEN LINE INSULATION TEST CONTROL CKT IS INSTALLED IN EXISTING OFFICES "ZQ" OR "ZP" OPTION MUST BE REPLACED BY "QT" OPTION.

107. IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT WHEN INTERMARKER GROUP SENDERS OR INCOMING REGISTERS USING NON-TANDEM CLASS RELAYS ARE USED, "XK" OPTION MUST BE FURNISHED IN EXISTING OFFICES.

108. IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT WHEN EITHER TANDEM SCREENING OR 2 DIGIT TRANSLATION IS INSTALLED IN OFFICES HAVING AN AUTOMATIC MONITOR REGISTER AND SENDER TEST CIRCUIT "YT" OPTION, IF PROVIDED, MUST BE REPLACED BY "YU" OPTION.

109.

110. (MFR DISC) WHEN AUTOMATIC PROGRESSION TRUNK TESTING IS INSTALLED IN OFFICES HAVING "YR" OPTION OR APP FIG. J, THESE MUST BE REPLACED BY "YS" & "ZZM" OPTION AND APP FIG. K RESPECTIVELY AND IF "WN" OPTION IS NOT ALREADY PROVIDED, IT MUST BE ADDED.

111. WHEN GROUND START COIN LINES ARE USED, "ZM" OPTION MUST BE FURNISHED IN EXISTING OFFICES.

112. WHEN AN AMA OFFICE HAVING "ZW" OPTION IS ARRANGED FOR 5 LINE INITIAL ENTRY "ZW" OPTION MUST BE REPLACED BY "ZX" OPTION.

113. WHEN A REGISTER TEST SET IS USED FOR TESTING ORIGINATING REGISTERS "XO" OPTION MUST BE PROVIDED.

114. WHEN ROUTE TRANSLATION OF LOCAL OFFICE CODES FOR FOREIGN AREAS IS ADDED OR IF CAMA IS ADDED IN OFFICES HAVING "XG" OPTION, "XG" OPTION MUST BE REPLACED BY "XH" OPTION.

115. WHEN PBX ALLOTTERS OR WIRE SPRING OUT. SENDER CONNECTORS ARE INSTALLED IN AN EXISTING OFFICE APP FIGURES 32,143 AND 34 MUST BE PROVIDED,AND PF, IF NOT ALREADY PROVIDED, MUST REPLACE PE.

116. WHEN THE NO. OF SENDER GROUPS IN A MARKER GROUP INCREASES TO MORE THAN 5, APP FIGURES, 8 AND 18, IF PROVIDED,MUST BE REPLACED BY APP FIGURES, 35 AND 36. IN ADDITION, IF THE OFFICE IS ARRANGED FOR LINE LINK PULSING, APP FIGURES 35, 36, AND X MUST BE PROVIDED.

117.

118. PRIOR TO ISSUE 13D "WM" OPTION WAS PART OF "ZZ" OPTION.

119. WHEN A SENDER TEST CIRCUIT IS INSTALLED IN AN EXISTING OFFICE, "WQ" OPTION, IF PROVIDED, MUST BE REPLACED BY "WR" OPTION.

CIRCUIT NOTES: (CONT)

120. IF THE MARKERS TESTED BY THIS CIRCUIT ARE CHANGED TO INCREASE THE CONTINUITY TEST VOLTAGE, "VA" OPTION, IF PROVIDED, MUST BE REPLACED BY "VB" OPTION OR "VC" OPTION, IF PROVIDED MUST BE REPLACED BY "VD" OPTION OR "TG" AND "TJ" OPTIONS. SUBSEQUENT TO ISSUE 14B AND PRIOR TO ISSUE 23B "VD" OPTION WAS PROVIDED ON ALL JOBS.

121. WHERE WIRE-SPRING DIAL TONE AND/OR COMPLETING MARKERS ARE ADDED TO EXISTING INSTALLATIONS, "VG" WIRING MUST REPLACE "VF".

122. WHERE MORE THAN 30 CLASSES OF SERVICE WITH "RF" OPTION FURNISHED, WIRE SPRING MARKERS, OR SURGE OPERATION OF HOLD MAGNET ARE ADDED TO AN EXISTING JOB EQUIPPED FOR AUTOMATIC PROGRESSION TRUNK TESTING AND/OR A LINE VERIFICATION CIRCUIT, "VJ" OPTION MUST REPLACE "VE".

123. "WZ" OPTION MUST BE PROVIDED WHEN "VL" OPTION IS PROVIDED OR WHERE THE LOCKING PATH FOR MARKER (FCG) RELAYS ARE CLOSED ONLY UNDER LIGHT TRAFFIC CONDITIONS.

124. WHEN MARKERS PER SD-25550-01 ISSUE 28B OR LATER OR SD-26002-01 ARE ADDED TO AN EXISTING OFFICE OR MARKERS ARE MODIFIED PER ISSUE 28B OF SD-25550-01 TO PROVIDE FOR MAKING THE (GT) RELAY INSENSITIVE TO AC, "VP" OPTION FORMERLY A PART OF "WO" OPTION APPARATUS, WHERE PROVIDED, SHOULD BE REPLACED BY "VO" OPTION OR "VN" OPTION FORMERLY A PART OF THE "WP" OPTION APPARATUS, WHERE PROVIDED, SHOULD BE REPLACED BY "VO" OPTION.

125. WHEN U & Y MARKERS IN AN EXISTING OFFICE ARE MODIFIED TO PROVIDE FOR DISCRIMINATION BETWEEN 7 & 10 DIGIT, PARTIAL DIAL AND VACANT CODE CALLS BUT WITHOUT TRUNK SERVICE OBSERVING AND FURTHER IF THE MASTER TEST CONTROL CIRCUIT IS OF ISSUE PRIOR TO 18D, "WX","WT" & "TU" OPTIONS MUST BE PROVIDED.

WHEN U & Y MARKERS ARE MODIFIED AS ABOVE, EXCEPT WITH TRUNK SERVICE OBSERVING AND MARKERS FUNCTION WITH AN ISSUE OF THE MASTER TEST CONTROL CKT PRIOR TO 18D, "US","WX","WT" & "TT" OPTIONS MUST BE PROVIDED AND MARKERS FUNCTION WITH ISSUE 18D BUT PRIOR TO 21D OF THE MASTER TEST CONTROL CKT, "US" OPTION MUST BE PROVIDED AND MARKERS FUNCTION WITH ISSUE 21D OF THE MASTER TEST CONTROL CIRCUIT, "VM" OPTION MUST BE REPLACED WITH "US" OPTION.

WHEN AN OFFICE IS ARRANGED FOR WIRE-SPRING MARKERS AND TRUNK SERVICE OBSERVING, OPTION US MUST BE PROVIDED INSTEAD OF OPTION VM.

127. OPTION "UY" AND "ZKX" MUST BE PROVIDED AND OPTION "UX" REMOVED ON JOBS HAVING WIRE SPRING TRUNK LINK FRAMES AND/OR WIRE SPRING MARKERS, UNLESS IMPROVED CHANNEL TESTING IS PROVIDED. (SEE NOTE 118D).

128. "UG" OPTION SHOULD REPLACE "UF" OPTION IN ORDER TO PROVIDE AN IMPROVED SURGE TEST FOR ORIGINATING REGISTERS.

129. WHERE WIRE SPRING COMPLETING MARKER OR MARKERS ARE ADDED TO AN EXISTING OFFICE, "VU" OPTION WITH EITHER "VW" OR "VV" OPTION MUST BE PROVIDED.

130. WHERE MORE THAN FORTY LINE LINK FRAMES ARE PROVIDED OR WHERE THE LINE LINK MARKER CONNECTOR INDICATES THE TENS DIGIT OF THE LINE LINK FRAME NO. BY GROUNDING 2 LEADS. "JL" OPTION MUST BE PROVIDED AND APP FIG. S, IF PROVIDED, MUST BE REPLACED BY APP FIG. T.

131. WHEN THE OFFICE IS ARRANGED FOR MORE THAN 20 TRUNK LINK FRAMES PER MARKER GROUP, APP FIG. V, "UO" AND "UN" OPTIONS MUST BE PROVIDED.

132. (A&M ONLY) WHEN NO. OF LINE LINK FRAMES EXCEEDS 10 AND APP FIG. S IS FURNISHED, "A" OPTION MUST BE PROVIDED.

133. (A&M ONLY) OPTION "P" MUST BE PROVIDED WHEN THE NO. OF TRUNK LINK FRAMES EXCEEDS 10 AND APP FIG. U IS FURNISHED OR WHEN THE NO. OF TRUNK LINK FRAMES IS LESS THAN 10, APP FIG. U IS FURNISHED AND THE OFFICE IS ARRANGED FOR ACCESS CODE (DIGIT "1").

134. (A&M ONLY) WHEN NO. OF TRUNK LINK FRAMES EXCEEDS 10 AND APP FIGURES U AND 25 ARE FURNISHED, "YO" & "BX" OPTION MUST BE PROVIDED.

CIRCUIT NOTES: (CONT)

135. (A&M ONLY) PRIOR TO ISSUE 21D, THE FOLLOWING ITEMS WERE SHOWN IN THE FEATURE AND OPTION NOTE 102. THE PRESENT RATINGS OF THESE OPTIONS ARE AS SHOWN IN NOTE 103. THESE ITEMS ARE SHOWN HERE AS THEY WERE SHOWN IN NOTE 102 PRIOR TO ISSUE 21D.

PAR.	FEATURE OR OPTION			PROVIDE FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
17	WHEN AMA IS NOT PROVIDED	AND TDM OR INTERTOLL SWITCHING IS PROVIDED		12 A	H,M	1 PER CKT
		AND TDM OR INTERTOLL SWITCHING IS NOT PROVIDED		A		
	WHEN AMA IS PROVIDED	AND TDM OR INTERTOLL SWITCHING IS PROVIDED		12	H,M N	1 PER CKT
		AND TDM OR INTERTOLL SWITCHING IS NOT PROVIDED		12	H,N	1 PER CKT
	WHEN AMA IS PROVIDED	AND NOT MORE THAN ONE DIRECTORY OFFICE DESIGNATION IS ASSOCIATED WITH THE NUMBERS OF A PHYSICAL OR A THEORETICAL OFFICE		20 B,C		1 PER CKT
		AND MORE THAN ONE DIRECTORY OFFICE DESIGNATION IS ASSOCIATED WITH THE NUMBERS OF A PHYSICAL OR A THEORETICAL OFFICE		20 B,D		1 PER CKT
	WHEN AMA IS PROVIDED	AND NUMBER OF DIGITS IN CODE FOR THIS OFFICE IS	NONE		ZA	
			ONE		ZB	
			TWO		ZC	
			THREE		ZD	
21	WHEN THE NUMBER OF CODE DIGITS (EXCLUDING 11, 11X, X11, X1X AND XOX CODES) RECORDED BY ORGINATION OF INCOMING REGISTERS IS	0			Q	
		0 AND/OR 1			R	
		0 AND/OR 2			S	
		0 AND/OR 3			Q,R	
		0 AND/OR 1&2			Q,S	
		0 AND/OR 1&3			R,S	
		0 AND/OR 2&3			Q,R,S	
		0 AND/OR 1,2&3			Z	
26	WHEN THE MAXIMUM NUMBER OF DIGITS REQUIRED TO BE RECEIVED BY THE MARKERS IS	5			Y,Z	
		6			X,Y,Z	
		7			W,X Y,Z	
		8			V,W,X Y,Z	
		9			U,V,W X,Y,Z	
		10			T,U,V W,X,Y Z	
		11				
29	WHEN PRETRANSLATORS ARE NOT PROVIDED			E		
	WHEN PRETRANSLATORS ARE PROVIDED	AND NO START INDICES OTHER THAN THOSE FOR THE HOME OFFICE AND FOR THE SAME NUMBER OF DIGITS WITH STATIONS DELAY ARE REQD		F		
		AND ONE ADDITIONAL START INDEX WITHOUT STATIONS DELAY AND/OR THE CORRESPONDING INDEX WITH STATIONS DELAY IS REQD		F	ZI	
		AND TWO ADDITIONAL START INDICES WITHOUT STATIONS DELAY AND/OR THE CORRESPONDING INDEX WITH STATIONS DELAY ARE REQD		F	ZI ZJ	

CIRCUIT NOTES: (CONT)

135. (CONT)

PAR.	FEATURE OR OPTION			PROVIDE FIG.	PROVIDE APP OR WRG	PROVIDE QUANTITY
29	WHERE PRETRANSLATORS ARE PROVIDED	AND THREE ADDITIONAL START INDICES WITHOUT STATIONS DELAY, OR A START INDEX WITHOUT STATIONS DELAY FOR X0X AND X1X CODES AND/OR THE CORRESPONDING INDICES WITH STATIONS DELAY ARE REQD		F	ZI ZJ ZK	
34	WHEN THE NO. OF TANDEM CLASSES (TAN OR TAN 0-4) FURNISHED IN THE MARKER IS	AND THE NO. OF CLASSES OF SERVICE IS	AND THE AUTO. MON REG & SDR TEST CKT IS			
	NONE OR ONE	10 OR LESS	PROVIDED		VH,YV	
			NOT PROVIDED		VH,XM	
		GREATER THAN 10	PROVIDED		XA,YV,YZ VH,RF,RY	
			NOT PROVIDED		XA,XM,YZ VH,RF,RY	
		GREATER THAN 20	PROVIDED		XA,YV, YZ,ZH,VH RF,RY	
			NOT PROVIDED		XA,XM, YZ,ZH, VH,RF,RY	
		GREATER THAN 30	PROVIDED	37	VI,XA, YV,YZ, ZH,RF,RY	
			NOT PROVIDED	37	VI,XA, XM,YZ, ZH,RF,RY	
	2 TO 5	10 OR LESS	PROVIDED		VH,XB,YW YY,RO,RF, RY	
			NOT PROVIDED		VH,XB,XL YY,RO,RF, RY	
		GREATER THAN 10	PROVIDED		VH,XB,YW YY,YZ,RO, RF,RY	
			NOT PROVIDED		VH,XB,XL YY,YZ,RO RF,RY	
		GREATER THAN 20	PROVIDED		VH,XB,YW YY,YZ,ZH RD,RF,RY	
			NOT PROVIDED		VH,XB,XL YY,YZ,ZH RD,RF,RY	
		GREATER THAN 30	PROVIDED	37	VI,XB,YW YY,YZ,ZH RD,RF,RY	
			NOT PROVIDED	37	VI,XB,XL YY,YZ,ZH RD,RF,RY	
35	WHEN 2 DIGIT TRANSLATION IS REQUIRED FOR BX CODES		AUTO. MON REG & SDR TEST CKT PROVIDED		WC WG YX,YY	
			AUTO. MON REG & SDR TEST CKT NOT PROVIDED		WC XP YY	

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CIRCUIT NOTES: (CONT)

135. (CONT)

PAR.	FEATURE OR OPTION			PROVIDE FIG.	PROVIDE APP OR MRG	PROVIDE QUANTITY
38	AUTOMATIC PROGRESSION TRUNK TEST CIRCUIT		NOT PROVIDED	24	VE,XX YF,YP	1 PER CKT
		PROVIDED		24-28	VJ XX YG	1 EACH PER CKT
			AMA PROVIDED	29		1 PER CKT
40	ROUTE TRANSLATION OF LOCAL OFFICE CODES FOR FOREIGN AREAS	NOT PROVIDED			XF	
		PROVIDED	FOR ONE TO THREE FOREIGN AREAS	30	XV XY	1 PER CKT
			FOR FOUR TO SIX FOREIGN AREAS		XW XY	
43	WHEN OFFICE IS ARRANGED FOR 1 OR 2 DIGIT OFFICE CODES BUT MUST RECEIVE 3 CODE DIGITS IN ADDITION TO SUBSCRIBERS NUMBER ON INTER-MARKER GROUP TRUNK TO SUBSCRIBER CALLS				WD	
44	WHEN THE AUTO. MON REG & SDR TEST CKT IS USED TO TEST INCOMING REGISTERS HAVING NON TANDEM CLASS AND REQUIRING TRANSLATION OF FULL HOME AREA OFFICE CODES (LT TRANSLATOR LEADS)				WM	
45	EXTRA THEORETICAL NUMBERS	PROVIDED			OO,WJ	
		NOT PROVIDED			WI	
47	WHEN MARKERS ARE ARRANGED FOR TRUNK SERVICE OBSERVING				VM	
46	WHEN ANY WIRE SPRING MARKERS ARE PROVIDED IN A MARKER GROUP NOT ARRANGED FOR MESSAGE REGISTER OPERATION (SURGE OPERATION OF HOLD MAGNETS PROVIDED)			38	VL	1 PER CKT
	WHEN NO WIRE SPRING MARKERS ARE PROVIDED OR WHEN A MARKER GROUP IS ARRANGED FOR MESSAGE REGISTER OPERATION (SURGE OPERATION OF HOLD MAGNETS NOT PROVIDED)				VK	
22	WHERE NUMBER OF VERTICAL GROUPS EQUIPPED EXCEEDS 10				ZF	

CIRCUIT NOTES: (CONT)

135. (CONT)

PAR.	FEATURE OR OPTION	PROVIDE FIG.	PROVIDE APP OR MRG	PROVIDE QUANTITY

CIRCUIT NOTES: (CONT)

136. "TA" OPTION SHOULD BE PROVIDED WHERE IT IS DESIRED TO MAKE SUPPLEMENTARY TEST ON ITMP CLASS MARKS WHICH ARE DEPENDENT ON MARKER FUNCTIONS BEING COMPLETED BEFORE THE RELEASE OF THE MASTER TEST FRAME CONNECTOR.

137. PRIOR TO ISSUE 22D "UT" AND "UU" OPTIONS WERE SHOWN AS PART OF "YW" OPTION.

138. INDEPENDENT CONTROLS FOR TOLL TRANSLATOR AND CLASS MARKS IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT: WHERE THE MARKER IS ARRANGED FOR TOLL SCREENING (MULTIPLE TOLL CLASSES) OR WHERE THE MARKER USES A 2DT OR FVD TRANSLATOR IN CONJUNCTION WITH A TOLL CLASS, "QX","SU","TK","TS","TZ","UJ", "UU","UV","UW","YW","ZX6", & "ZYZ" OPTIONS AND APP FIG K MUST BE PROVIDED.

139. PRIOR TO ISSUE 22D, "YW" OPTION WAS SPECIFIED FOR USE WITH TANDEM SCREENING (INDEPENDENT CONTROLS FOR TANDEM TRANSLATOR AND CLASS MARKS), AND "YV" OPTION WAS SPECIFIED FOR USE WHERE TANDEM SCREENING IS NOT PROVIDED.

140. WHERE AN OFFICE CONVERTS FROM THE USE OF A SINGLE SIDED TROUBLE RECORD CARD TO A DOUBLE SIDED CARD BECAUSE OF THE ADDITION OF NEW FEATURES, OPTIONS "SZ","TC","TE" & "PG" MUST BE PROVIDED.

141. IF THE CAMA TESTING FEATURE IS PROVIDED "QX","RQ","SZ", "TN","PG","TZ","UJ","UW","VX","WN","YS","ZM" & "ZZM" OPTIONS & FIG. K MUST ALSO BE PROVIDED ALONG WITH SD-25988-01 ISSUE 6D OR LATER AND SD-25676-01,ALSO, ISSUE 7D OR LATER. IN OFFICES NOT EQUIPPED FOR THE NEW NUMBERING PLAN ARRANGEMENT OPTION "QX","SU", "ZX8","ZYZ" MUST BE PROVIDED.

142.

143. IF THE LINE VERIFICATION CIRCUIT SD-26181-01 IS ADDED TO AN EXISTING OFFICE WHERE FIG. M IS PROVIDED, "TC" OPTION MUST BE PROVIDED.

144. "TV" OPTION MUST BE PROVIDED ON ALL JOBS EQUIPPED WITH FIG.37.

145. WHERE INTERMARKER GROUP OPERATION IS PROVIDED AND "WN" OPTION IS PROVIDED IN THE MASTER TEST CONTROL CKT, "TZ", & "SF" OPTIONS MUST BE PROVIDED IF TESTING OF THE REORDER FEATURE AND TRUNKS IS DESIRED. IF OFFICE IS NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT OPTION "ZXB" MUST BE PROVIDED.

146. WHERE AUTOMATIC PROGRESSION TRUNK TEST IS ARRANGED TO TEST CAMA TRUNKS, "SN" OPTION MUST REPLACE "SM" OPTION, AND "QJ" OPTION, IF NOT ALREADY PROVIDED, MUST REPLACE "QI" OPTION.

147. "SR" AND "CH" OPTIONS MUST BE PROVIDED IN OFFICES WHERE FREE NUMBER INDIVIDUAL LINES ARE ARRANGED FOR OUTGOING AMA TRAFFIC. TO APPLY THIS FEATURE, "ZO" OPTION MUST BE REPLACED BY "QT" OPTION.

148. IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, AND ARRANGED FOR A COMPULSARY DIGIT "1" ACCESS CODE FOR NON LOCAL CALLS, OPTION "SV" MUST BE REPLACED BY OPTIONS "SW" AND "PH".

149. IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, WHERE ANY DIAL PULSE OR MULTIFREQUENCY INCOMING REGISTER IS EQUIPPED TO SERVE MORE THAN ONE INTERTOLL CLASS OF TRUNK AND IS TESTED BY THE AUTOMATIC MONITOR REGISTER AND SENDER TEST CIRCUIT, "SS" OPTION MUST BE REPLACED BY "ST" OPTION, AND OPTION "UP" MUST BE REMOVED.

150. PRIOR TO ISSUE 41D, OPTION "E" WAS SPECIFIED FOR USE WHERE MULTIFREQUENCY ORIGINATING REGISTERS ONLY WERE FURNISHED, OPTION "F" WAS SPECIFIED FOR USE WHERE DIAL ORIGINATING REGISTERS ONLY WERE FURNISHED AND OPTION "G" WAS SPECIFIED FOR USE WHERE BOTH DIAL AND MULTIFREQUENCY ORIGINATING REGISTERS WERE FURNISHED. ON ANY EXISTING JOBS EQUIPPED WITH OPTION "F" IN WHICH A SECOND GROUP OF ORIGINATING REGISTERS ARE ADDED, OPTION "G" MUST REPLACE OPTION "F".

151. WHERE LINE LINK FRAMES GENERATE CLASS OF SERVICE ON CLASS UNITS AND CLASS TENS BASIS, OPTIONS "RC","RE","RG","RX","XB", "JO","YZ" & "ZH" ARE REQUIRED.

152.

CIRCUIT NOTES: (CONT)

153. IN OFFICES ARRANGED WITH A 4-WIRE NETWORK, "LW","MX","RT", "QF","UJ","YS","WZ" AND "ZXJ" OPTIONS, IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS "RI","RS","QE","UI","YR", "WY" AND "ZXI" RESPECTIVELY, AND APP FIG. 81 MUST REPLACE APP FIG. 19,21 OR 52. IF OFFICE IS ARRANGED FOR MAX OF 20 OR MAX OF 130 CLASSES OF SERVICE, "QS" OPTION MUST REPLACE BOTH "QQ" AND "QR" OPTIONS, ALSO OPTION "ZZM" MUST REPLACE "ZZL" AND "ZPO" MUST BE ADDED.

154. OPTION "RV" MUST BE PROVIDED IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, IN OFFICES USING "WD" OR "RB" OPTIONS & EQUIPPED WITH MARKERS REQUIRING SEPARATE TOLL TRANSLATOR (GROUND ON "TT" LEAD) AND LOCAL TRANSLATOR (GROUND ON "LT" LEAD) MARKS.

155. (MFR DISC.) WHEN AN EXISTING OFFICE EQUIPPED WITH OPTIONS "RB","RD", "RF" AND "VH" OR "RF","VI" AND APP FIG. 37 IS MODIFIED FOR 20 CLASSES OF SERVICE AND 20 RATE TREATMENTS, OPTION "RC" MUST REPLACE "RB", OPTION "RE" MUST REPLACE "RD", OPTIONS "JO","RX","RY","ZLR" AND "RZ" MUST BE PROVIDED INSTEAD OF "RF" WITH "RY" AND "VH" ON "RF" WITH "RY","VI" AND APP FIG. 37, AND OPTION "RH" MUST BE ADDED. IN ADDITION, OPTION "ZH" MUST BE PROVIDED AND OPTION "YZ" MUST BE FURNISHED IF EITHER "XA" OR "XB" IS PROVIDED. PRIOR TO ISSUE 43D OPTIONS "RY" AND "RX" WERE SHOWN AS PART OF OPTIONS "RF" AND "RG",RESPECTIVELY.

156. PRIOR TO ISSUE 43D OPTIONS "TG" AND "TJ" WERE SPECIFIED FOR USE WHERE KS-5659,L1 RINGING MACHINE WAS PROVIDED AND OPTIONS "TI" AND "VD" WERE SPECIFIED WHERE OTHER THAN KS-5659,L1 RINGING MACHINE WAS PROVIDED. PRIOR TO ISSUE 60D, "TF" OPTION WAS FURNISHED ON ALL JOBS BUT USED ONLY IN CONJUNCTION WITH "TJ" OPTION.

157. WHEN ANY OF THE ORIGINATING REGISTERS IN AN OFFICE EQUIPPED WITH THE AUTOMATIC MONITER REGISTER AND SENDER TEST CIRCUIT ARE ARRANGED FOR "TOUCH-TONE" OPERATION, "QQ" OPTION MUST BE PROVIDED INSTEAD OF "QA","QB" AND "QC" OPTIONS. PRIOR TO ISSUE 44AC OPTIONS "QA" AND "QB" WERE SHOWN AS PART OF OPTIONS "G" AND "XI", RESPECTIVELY.

158. IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, WHEN ORIGINATING REGISTERS ARE ARRANGED TO ALLOW PBX CUSTOMERS TO USE THE "1XX" SPECIAL PBX AND TIE LINE CODES AND TO PROVIDE REPETITIVE DIGIT TIMING FOR THESE CODES, "QH" OPTION MUST REPLACE "QG" OPTION AND "OY" MUST BE PROVIDED INSTEAD OF "OW".

159. PROVIDE OPTIONS ASSOCIATED WITH KEYS AS FOLLOWS:

(A) WHERE AN AUTO. MON REG & SDR TST CKT IS ADDED "QJ" OPTION IF NOT ALREADY PROVIDED, MUST REPLACE "QI" OPTION.

(B) CANCELED

(C) CANCELED

(D) IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, WHEN PROVISION FOR 2-DIGIT TRANSLATION OF 8X CODES IS ADDED "WC","YX" OR "XP" OPTIONS, IF PROVIDED, MUST BE REMOVED AND "QZ" OPTION MUST BE FURNISHED.

(E) WHERE PROVISION FOR EXTRA THEORETICAL NUMBERS OR THE USE OF A TOLL TRANSLATOR ON INCOMING CLASS CALLS IS ADDED "WO" OR "PA" OPTIONS, IF PROVIDED, MUST BE REMOVED AND "PB" OPTION MUST BE FURNISHED.

(F) WHERE AMA IS ADDED "PD" OPTION, IF NOT ALREADY PROVIDED MUST REPLACE "PC" OPTION.

(G) CANCELED

160. OPTION "OI", IF NOT ALREADY PROVIDED, MUST REPLACE OPTION "OH" IN AN OFFICE BEING MODIFIED FOR CENTREX SERVICE. IN ADDITION, IF APP FIG. 53 IS PROVIDED IT MUST BE REPLACED BY APP FIG. 82. "QT" OPTION, IF NOT ALREADY PROVIDED, MUST REPLACE "ZO" OR "ZP" OPTIONS; "LT" AND "LU" OPTIONS MUST REPLACE "ON" AND "LU" OPTIONS, RESPECTIVELY. IF IT IS DESIRED TO RECOGNIZE A POSITION LINK TIME-OUT ON TEST CALLS OPTION "GX" MUST BE REPLACED BY OPTION "GY".

DRAWING ISSUE

53D	LPW YNJ AHD
54B	YNJ YNL AHD
56D	YNJ WP
57A	RLS SPW WP
59A	RFS WP AHD
60D	RLS YNJ AHD
61A	NJC SAV AHD
63D	WP CLP AHD
64A	WP CLP AHD
65D	RLB I.B. AHD
66A	XCB I.B. AHD
67D	XP
80D	
83A	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D19

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CIRCUIT NOTES: (CONT)

161. (MFR DISC) THE FOLLOWING OPTIONS WERE PROVIDED IN OFFICES ARRANGED INITIALLY FOR PPCS OR CENTREX SERVICE OR BOTH PER AN ES- DRAWING:

CENTREX SERVICE: (PHASE I) APP FIG. 55 AND OPTIONS "LT","LU","QI","QP", "OQ","PS", AND "PT" INSTEAD OF OPTION "LV", "OH","ON","CH" AND "PU". IN ADDITION, IF ONLY CONSOLES WERE USED, "LH" OPTION WAS PROVIDED; IF ONLY CORD BOARDS WERE USED OR IF BOTH CONSOLES AND CORD BOARDS WERE USED, "QP" OPTION WAS PROVIDED. "PO" OPTION WAS PROVIDED IN APP FIG. 55 INSTEAD OF "PP" OPTION.

PPCS: OPTION "OK" INSTEAD OF OPTION "OJ"; OPTION "QU" OR "QW" INSTEAD OF OPTION "QV"; OPTION "QY" INSTEAD OF OPTIONS "SX" AND "LO"; OPTION "RE" INSTEAD OF "RD".

162. IN OFFICES ARRANGED FOR MORE THAN 1000 TRUNK NUMBERS "LJ" AND "LN" OPTIONS, IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS "LI" AND "LM", RESPECTIVELY. PRIOR TO ISSUE 48D "LI" OPTION WAS SHOWN AS PART OF "N" OPTION. WHERE AN OFFICE IS BEING MODIFIED TO MORE THAN 1000 TRUNK NUMBERS, "GD" OPTION MUST BE PROVIDED IF APP FIG. 37 IS FURNISHED AND "GE" OPTION MUST BE PROVIDED IF APP FIG. 37 IS NOT FURNISHED.

163. OPTION "PH", IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS "SX" AND "LO" IN AN OFFICE BEING MODIFIED FOR PPCS OPERATIONS THAT IS NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGMENT.

164. OPTIONS "UJ","IZ" AND "PK", IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS "UI","IY" AND "PI", RESPECTIVELY, IN AN OFFICE BEING MODIFIED FOR ANI. IN OFFICE NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, OPTION "ZXB" MUST BE PROVIDED.

165. (A&M ONLY) WHEN AN EXISTING OFFICE EQUIPPED WITH A J23252A FRAME IS MODIFIED FOR CAMA, APP FIG. 53 AND APP FIG. 43 MUST BE ADDED INSTEAD OF APP FIG. 82 AND APP FIG. 63, RESPECTIVELY.

166. (A&M ONLY) "QP" AND "AG" OPTIONS MUST BE PROVIDED INSTEAD OF "LH" IN OFFICES ARRANGED INITIALLY FOR CENTREX SERVICE PER AN ES- DRAWING THAT ARE BEING MODIFIED FROM CONSOLE OPERATION ONLY TO OPERATION WITH BOTH CONSOLE AND CORD BOARDS.

167. OPTION "OS", "ND", "ZJB", "ZJX", "ZJV", AND "ZOZ" IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS "DQ","DR","ZJA","ZJU" AND "OR", IF PROVIDED IN AN OFFICE BEING MODIFIED FOR NUMBER GROUP TENS BLOCK SCREENING. IN ADDITION, "JO" OPTION, IF NOT ALREADY PROVIDED, MUST BE ADDED.

168. (MFR DISC) WHEN OFFICE IS ARRANGED FOR PREEMPTION, OPTIONS "FL","PW", "PY","OA","OG" AND "FM" MUST BE FURNISHED. IN ADDITION, "PW" AND "PY" OPTIONS MUST BE PROVIDED IN 4-WIRE OFFICES MODIFIED FOR 2-WIRE OPERATION IN ORDER TO PROVIDE SEPARATE TRUNK LINK FRAME NUMBERS PER NOTE 304.

169. "LQ" OPTION MUST BE FURNISHED IN ORDER TO PROVIDE A SECOND 2-WIRE ORIGINATING TEST LINE FOR LOOP AROUND TRANSMISSION TESTING, A SECOND 4-WIRE ORIGINATING TEST LINE FOR PRE-EMPTION TESTING, OR A SECOND TRUNK LINK FRAME APPEARANCE FOR DIRECT ACCESS TO NO. 101 ESS.

170. IN OFFICES NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT, WHERE ORIGINATING REGISTERS ARE ARRANGED TO FUNCTION WITH THE PRIVATE LINE NETWORK FEATURE (PREFIX DIGIT "8") "OY" OPTION, IF NOT ALREADY PROVIDED, MUST REPLACE "OW" AND "OX" OPTIONS.

171. (MFR DISC) FIG. 110 AND OPTION "TO" MUST BE ADDED, AND OPTIONS "MB" AND "MD" MUST REPLACE OPTIONS "MA" AND "MC", RESPECTIVELY, FOR CONFERENCE CONTROLLER TEST. IN ADDITION, IF THE OFFICE WAS ARRANGED FOR THE REGISTER PRIORITY LINK CIRCUIT, OPTION "RP" AND FIG.51 , IF PROVIDED, MUST BE REMOVED IN ORDER TO ADD OPTION "TO" AND FIG. 110. FIG. 110 AND OPTION "TO" MUST ALSO BE ADDED TO OFFICES ALREADY ARRANGED FOR CONF CONTROLLER TESTING, AND EQUIPPED WITH FIG. 51 IF FIG. 51 AND OPTION "RP" IS REMOVED. OPTION "MD" WAS REQUIRED INSTEAD OF OPTION "MC" FOR THAT FEATURE.

172. OPTION "MI" MUST BE PROVIDED WHEN THE FEATURE TO DETECT A LOCKED TEST RELAY ON THE LINE LINK AND/OR TRUNK LINK FRAME IS PROVIDED.

173. WHEN PROVISION FOR A TRUNK TEST REGISTER CKT IS ADDED OR WHERE INTERTOLL TRUNKS ARE TESTED TO IOX CODES IN DISTANT OFFICES. OPTION "MH" IF NOT ALREADY PROVIDED, MUST BE ADDED.

CIRCUIT NOTES: (CONT)

174. (MFR DISC) WHEN PROVISION FOR A ROUTE CONTROL DIGIT IS ADDED TO AN EXISTING 4-WIRE OFFICE, "MJ" OPTION MUST BE PROVIDED AND "DB" AND "LF" OPTIONS, IF NOT ALREADY PROVIDED, MUST BE FURNISHED INSTEAD OF "DA" AND "LE" OPTIONS.

175. (A&M ONLY) PRIOR TO ISSUE 49D APP FIG. 43 WAS SPECIFIED FOR USE IN OFFICES ARRANGED FOR CAMA OPERATION. WHERE LINE LINK PULSING OR AUTOMATIC INTERCEPT USING LLP IS ADDED TO AN OFFICE EQUIPPED WITH APP FIG.43, APP FIG. 63, INSTEAD OF APP FIG. 85, MUST REPLACE APP FIG. 43.

176. PRIOR TO ISSUE 49D, APP FIG. 46 WAS SPECIFIED FOR USE IN OFFICES ARRANGED FOR ANI.

177. (A&M ONLY) APP FIG. 65 MUST BE PROVIDED IN OFFICES HAVING STATIONS RESTRICTED TO INCOMING TRAFFIC WHEN THESE OFFICES ARE NOT ARRANGED FOR NUMBER GROUP TENS BLOCK SCREENING. TO APPLY THIS FEATURE, "OS", "ND", "ZJB", "ZJX","ZJV" AND "ZOZ" OPTIONS MUST BE PROVIDED IN PLACE OF "ZJA","ZJU", AND "OR". "OZ" AND "JO" OPTIONS MUST BE ADDED.

179. OPTIONS "LR" AND "LS" MUST BE PROVIDED INSTEAD OF OPTIONS "QE","QF","LG" AND "LL" IN OFFICES PERMITTING MORE THAN FOUR ROUTE ADVANCES. PRIOR TO ISSUE 49D, "QF" OPTION WAS PROVIDED IN OFFICES ARRANGED FOR A MAXIMUM OF SIX ROUTE ADVANCES AND "QE" OPTION WAS PROVIDED IN OFFICES ARRANGED FOR A MAXIMUM OF FOUR ROUTE ADVANCES.

179. "LW" OPTION, IF NOT ALREADY PROVIDED, MUST BE FURNISHED IN OFFICES EQUIPPED WITH COMBINED ANI-LAMA TRANSVERTERS OR TRAFFIC SAMPLING.

180. THE FOLLOWING OPTIONS MUST BE PROVIDED IN OFFICES ARRANGED FOR BOTH CAMA AND ANI: "LY" INSTEAD OF "LX" (APP FIG. 45), "KH" INSTEAD OF "SC" OR "SD" (APP FIG. 47), "PI" INSTEAD OF "PJ" OR "PK" (APP FIGURES 35 & 48), "KB" AND "KC" INSTEAD OF "KD","LZ" OR "KA","KH" INSTEAD OF "KE", "KF" AND "KG", "BH" AND "KI" INSTEAD OF "BG" AND "KJ","IL" INSTEAD OF "IK","IR" INSTEAD OF "IQ","IT" INSTEAD OF "IS","FF" INSTEAD OF "FE". SUBSEQUENT TO ISSUE 51D AND PRIOR TO ISSUE 58D "KJ" AND "BG" OPTIONS WERE REQUIRED INSTEAD OF "KI" AND "BH" OPTIONS IN ORDER TO APPLY THIS FEATURE.

181. PRIOR TO ISSUE 51D APP FIGS "N" AND "P" WERE SPECIFIED AS SHOWN IN NOTE 102 (37). WITH ISSUE 51D AND PRIOR TO ISSUE 65D, APP FIG "N" WAS SPECIFIED AS STANDARD ON ALL JOBS AND APP FIG "P" WAS SPECIFIED ONLY FOR JOBS ARRANGED FOR INTERMARKER GROUP OPERATION BUT NOT PROVIDED WITH THE SENDER TEST CIRCUIT.

182. (A&M ONLY) THE FOLLOWING OPTIONS MUST BE PROVIDED WHEN ADDING THE INDICATED NEW FEATURES TO AN EXISTING OFFICE EQUIPPED WITH APP FIGURES 67 & 68:

(A) TEST SET TYPE FACILITIES FOR TESTING SENDERS - APP FIG. 73 AND OPTION "QO" INSTEAD OF "QN".
(B) CENTREX SERVICE - OPTION "QT" INSTEAD OF "ZO" OR "ZP".
(C) INTERMARKER GROUP OPERATION - APP FIG. 69 WITH OPTION "QM".
(D) AUTOMATIC MONITOR - APP FIG. 75 WITH OPTION "QM".
(E) CAMA - APP FIG. 70.
(F) LAMA, CAMA OR ANI - APP FIG. 71 WITH OPTION "PN".
(G) PRETRANSLATORS - APP FIG. 72 WITH OPTION "PH".
(H) RATE TREATMENT - OPTIONS "RC" & "JI".

183. PRIOR TO ISSUE 58D, "KN" OPTION WAS REQUIRED IN APP FIG. 57 IN OFFICES ARRANGED FOR AIOD OPERATION.

184. "CC","FR" AND "KP" OPTIONS MUST BE ADDED OR FURNISHED INSTEAD OF "CB","FQ" AND "KO" OPTIONS, IF PROVIDED, AND "GM" OPTION MUST BE ADDED IN OFFICES BEING MODIFIED FOR UNIVERSAL PAD CONTROL OR 4-WIRE ECHO SUPPRESSOR CONTROL OR WHERE AN EXISTING 4-WIRE OFFICE WITH ECHO SUPPRESSOR IS MODIFIED FOR MULTILEVEL PREEMPTION. ALSO THE FOLLOWING MUST BE FURNISHED: OPTIONS "BK" (IF APP FIG. 25 IS PROVIDED) AND "ZZZ".

185. OPTION "GM", IF NOT ALREADY PROVIDED, MUST BE FURNISHED IN OFFICES BEING MODIFIED FOR TRAFFIC SAMPLING, OR AUTOMATIC INTERCEPT USING LLP.

186. "KW" OPTION, IF NOT ALREADY PROVIDED, MUST REPLACE "KV" OPTION IN OFFICES IN WHICH THE MARKERS ARE ARRANGED WITH THE CANCEL RINGING SWITCH OPERATION FEATURE. (SD-26002-01, OPTION TM; SD-25550-01, FIG. 182)

CIRCUIT NOTES: (CONT)

187. IN AN OFFICE BEING MODIFIED FOR DIAL TRANSFER, THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE FURNISHED:
"IE","JO","IY" , "ZZQ"
"EA"(J23252AJ FRAME),("JF" PROVIDED) SUBSEQUENT TO ISSUE 53D AND PRIOR TO ISSUE 62D, OPTION "EA" WAS SPECIFIED IN NOTE 102(66) FOR LINE IDENTIFIER PROVIDED.
"FT" INSTEAD OF "FS" (OTHER THAN J23252AJ FRAME). ("KX" PROVIDED)
"ID" INSTEAD OF "IC"
"IG" INSTEAD OF "IF"
"II" INSTEAD OF "IH"
"GW" INSTEAD OF "GV"
IF OFFICE IS ARRANGED FOR TENS BLOCK SCREENING TO PERMIT COMPLETION OF CALLS TO LINES COMMON TO ALL CENTREX CUSTOMERS:
"IW" (SEE NOTE 1127)
"CN" INSTEAD OF "IZ" (J23252AJ FRAME) "CM" INSTEAD OF "FV" (OTHER THAN J23252AJ FRAME) WITH ISSUE 53D AND PRIOR TO 58D OPTION "IZ" OR "FV" WAS FURNISHED.
IN OFFICE NOT EQUIPPED WITH THE NEW NUMBERING ARRANGEMENT OPTION "ZXA" MUST BE PROVIDED.

188.

189. OPTION "EC" MUST REPLACE OPTION "EB" IN AN OFFICE BEING MODIFIED TO PERMIT 5 DIGIT DIALING OF INTERCOM CALLS OR BEING MODIFIED FOR OVERSEAS DIALING AND NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT.

190. "GB" OPTION MUST BE PROVIDED IN OFFICES IN WHICH ANY OF THE MARKERS ARE EQUIPPED WITH MERCURY CONTACT TYPE (FCG) RELAYS. WHEN "WO" OPTION IS FURNISHED, OPTION "ZYL" MUST REPLACE "ZYK".

191. (A&M ONLY) "GG" OPTION MUST BE PROVIDED INSTEAD OF "GF" OPTION AND, IF "FA" IS NOT ALREADY FURNISHED, "GZ" AND "RE" OPTIONS MUST REPLACE OPTION "RD", IN CENTREX OFFICES WITH 60 CLASSES OF SERVICE AND NO RATE TREATMENT. "GF" OPTION MUST BE PROVIDED IN OTHER OFFICES EQUIPPED WITH 30 OR 60 CLASSES OF SERVICE.

192. "DP","ZII,"DG" AND "GI" OPTIONS MUST BE PROVIDED INSTEAD OF "DH", ZIH,"DF","FP","GH","GK" AND "GL" OPTIONS IN PHASE III CENTREX OFFICES AND "YS" AND "ZZM" OPTIONS IF NOT ALREADY PROVIDED, MUST BE ADDED.

193. APP FIG. 89 SHOULD BE ADDED TO EXISTING OFFICES WHERE PREVENTION OF TIED UP ORIGINATING REGISTERS DUE TO A FALSE GROUND ON THE M LEAD AT THE TRUNK LINK CONNECTOR IS DESIRED.

194. IN OFFICES NOT PROVIDED WITH A SEVEN-DIGIT TOLL AMA ROUTE FURNISH "GO" OPTION INSTEAD OF "GN" OPTION TO MAKE COMBINED MARKER LINE VERIFICATION AND TRANSLATOR LINE VERIFICATION TEST.

195. "GQ" OPTION MUST BE PROVIDED INSTEAD OF "GF" OPTION IN 4-WIRE OFFICES EQUIPPED WITH THE PERMANENT SIGNAL LOCKOUT FEATURE OF 4-WIRE ORIGINATING REGISTERS ARRANGED TO RETURN A 130-VOLT POTENTIAL TO THE LINE CKT WHEN A "BT" SIGNAL IS RECEIVED FROM THE MARKER. IN ADDITION OPTION "ET", IF NOT ALREADY PROVIDED, MUST REPLACE OPTION "GR, AND OPTION "GS" MUST BE ADDED.

196. PRIOR TO ISSUE 53D APP FIG. 23 AND OPTION "XE" WERE SPECIFIED IN NOTE 102 FOR FREE NUMBER LINES PROVIDED AND "YE" OPTION WAS SPECIFIED FOR FREE NUMBER LINES NOT PROVIDED. PRESENT RATINGS OF THESE OPTIONS ARE AS SHOWN IN NOTE 103.

197. "BZ" OPTION, IF NOT ALREADY PROVIDED, MUST REPLACE "GT" OPTION, IN OFFICES BEING MODIFIED FOR LINE LINK PULSING OR AUTOMATIC INTERCEPT USING LLP.

198. "FC" OPTION, IF NOT ALREADY PROVIDED, MUST REPLACE "FB" OPTION IN OFFICES BEING MODIFIED FOR PAIRED LINE LINK OPERATION.

199. OPTION "WR", IF NOT ALREADY PROVIDED, MUST BE ADDED IN OFFICES BEING MODIFIED FOR OVERLOAD ANNOUNCEMENT.

1101. OPTIONS "FF","FG" AND "FI" MUST REPLACE OPTIONS "FE","U" AND "FH" RESPECTIVELY, IN OFFICES IN WHICH TOUCH-TONE AND/OR DIAL PULSE REVERTING CALL TRUNKS ARE TESTED UNDER MARGINAL CONDITIONS IN CONJUNCTION WITH THE AUTOMATIC MONITOR, REGISTER AND SENDER TEST CKT.

1102. (A&M ONLY) THE INDICATED OPTIONS MUST BE PROVIDED WHEN CAMA OR ANI IS ADDED TO AN EXISTING OFFICE ARRANGED FOR THAT FEATURE PRIOR TO ISSUE 51D, BUT NOT EQUIPPED WITH EITHER CAMA OR ANI:
CAMA: "IQ" INSTEAD OF "IR" (APP FIG. 40)
"IS" INSTEAD OF "IT" (APP FIG. 41)
"LX" INSTEAD OF "LY" (APP FIG. 45)
"SD" INSTEAD OF "KH" (APP FIG. 47)
"KE", "KF" , "KG" AND "LZ"
ANI: "IK" INSTEAD OF "IL" (APP FIG. 48)
"KA" INSTEAD OF "KB" AND "LX" INSTEAD OF "LY" (APP FIG. 45) (WITH AUTO. MON PROVIDED)
"SD" INSTEAD OF "KH" (APP FIG. 47) "KF" AND "KG"
WHEN AMA-MTR TRANSVERTERS WITH ANI ARE ADDED, OPTION ZON MUST BE ADDED AND OPTION ZPS MUST BE PROVIDED INSTEAD OF ZPT.

CIRCUIT NOTES: (CONT)

1103. PRIOR TO ISSUE 56D, "XQ" OPTION WAS SPECIFIED IN NOTE 102(39) FOR USE WHEN 4-WIRE RINGING SELECTION SWITCHES ONLY WERE PROVIDED AND "XR" OPTION WAS SPECIFIED WHEN 6-WIRE RINGING SELECTION SWITCHES WERE PROVIDED. ALSO "XS" OPTION WAS SPECIFIED FOR USE WHEN 4-WIRE RINGING SWITCHES ONLY WERE PROVIDED IN ADDITION TO 6-WIRE RINGING SWITCHES WITH NO 8-PARTY LINES.

1104. APP FIG. 91 MUST BE PROVIDED IN OFFICES IN WHICH TEST SET TYPE FACILITIES ARE PROVIDED FOR TESTING ORIGINATING REGISTERS. PRIOR TO ISSUE 53D APP FIG. 91 WAS SHOWN AS PART OF APP FIG. 31.

1105. PRIOR TO ISSUE 53D OPTION "RP" AND APP FIG. 51 WAS SHOWN IN NOTE 102 REQUIRED WHEN THE REGISTER PRIORITY LINK CKT WAS PROVIDED.

1106. (A&M ONLY) THE FOLLOWING OPTIONS MUST BE PROVIDED FOR THE INDICATED ADDITIONAL TESTING FEATURES IN EXISTING CENTREX OFFICES:
(A) APP FIG. 91 TO CONTROL THE TROUBLE RECORDS ON TRANSFER TRUNK TESTS.
(B) OPTION "FJ"; OPTION "FX" INSTEAD OF "FW"; AND OPTION "FZ" INSTEAD OF "FY" TO MATCH THE LL2/5 INFORMATION RETURNED FROM THE LINE IDENTIFIER AGAINST A PRE-SELECTED CHANNEL ON TEST OF LINE IDENTIFIER.
(C) OPTIONS "EG" AND "EH" FOR A LAMP DISPLAY OF THE CLASS OF SERVICE STORED IN THE SIMULATED TRUNK (INCOMING OR INTRAOFFICE IF PHASE I OR II; TRANSFER IF PHASE III).
(D) OPTIONS "EI" AND "EJ" FOR A LAMP DISPLAY OF THE CLASS OF SERVICE STORED IN THE SIMULATED TRANSFER REGISTER. (PHASE III ONLY).
(E) OPTION "FJ"; OPTION "FZ" INSTEAD OF "FY" TO FORCE A CROSS CONDITION ON LINE IDENTIFIER OR TRANSFER REGISTER TESTS.

1107. "EF" OPTION MUST REPLACE "EE" OPTION, IF PROVIDED. AND "ED" OPTION, IF NOT ALREADY PROVIDED, MUST BE ADDED TO AN OFFICE BEING MODIFIED TO ADD RATE TREATMENT OR DIAL TRANSFER. PRIOR TO ISSUE 53D, "ED" AND "EE" OPTIONS WERE SHOWN AS PART OF "RH" OPTION.

1108. (A&M ONLY) "OV" OPTION MUST BE PROVIDED INSTEAD OF "OU" OPTION IN PHASE I OR II CENTREX OFFICES BEING MODIFIED FOR 608 BOARD OPERATION. PRIOR TO ISSUE 53D, "OV" OPTION WAS SPECIFIED IN NOTE 102 FOR 608 OPERATION PROVIDED AND "OU" OPTION WAS SPECIFIED FOR 608 OPERATION NOT PROVIDED AND FOR CAMA OPERATION IF CENTREX SERVICE WAS NOT PROVIDED.

1109. IN EXISTING OFFICES BEING ARRANGED FOR OVERLOAD ANNOUNCEMENT, OPTION "EL", IF NOT ALREADY PROVIDED, MUST REPLACE OPTION "EK".

1110. IN OFFICES BEING MODIFIED FOR 4-WIRE OR DIAL TRANSFER, OPTIONS "RT","EP","ER","ES","EV" AND "EX", IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS "RS","EH","EO","ET","EU" AND "EW", RESPECTIVELY,AND ZPO MUST BE ADDED.

1111. (A&M ONLY) THE FOLLOWING APP FIGURES AND OPTIONS MUST BE PROVIDED IN EXISTING INSTALLATIONS BEING MODIFIED FOR PHASE II CENTREX: APP FIG. 55(WITH OPTIONS "IU","PP" AND "PQ" INSTEAD OF "IV","PO" AND "PR"), APP FIG. 56 AND OPTIONS "PU","OP","LC","GU" AND "EH". IN ADDITION, OPTIONS REQUIRED FOR ANY PHASE CENTREX SPECIFIED IN NOTE 160 MUST BE PROVIDED.

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CIRCUIT NOTES: (CONT)

1112. THE FOLLOWING APP FIGURES AND OPTIONS MUST BE PROVIDED IN EXISTING PHASE I OR II CENTREX INSTALLATIONS BEING MODIFIED FOR DIAL TRANSFER: APP FIG. 86 (WITH OPTION IM INSTEAD OF IN) AND OPTIONS IX,IO,IJ AND EJ: OPTION RW MUST BE PROVIDED IN OFFICES EQUIPPED FOR TEST SET TYPE TESTING ONLY. IF OFFICE IS NOT EQUIPPED FOR THE NEW NUMBERING PLAN ARRANGEMENT, OPTION ZXS MUST BE PROVIDED. IN ADDITION, OPTION IV MUST REPLACE OPTION IU IN APP FIG. 55 AND OPTIONS REQUIRED FOR DIAL TRANSFER IN ANY PHASE CENTREX OFFICE SPECIFIED IN NOTE 187 MUST BE PROVIDED. OPTION IN (APP FIG.86) AND OPTION IU (APP FIG. 55) ARE REQUIRED FOR PHASE III CENTREX INSTALLATIONS. IF OFFICE IS NOT EQUIPPED FOR THE NEW NUMBERING PLAN ARRANGEMENT, OPTION ZYY MUST BE PROVIDED. PHASE III CENTREX REQUIRES 3 TO 6 GRIGINATING REGISTER GROUPS OPERATION.

1113. CANCELLED (SEE NOTE 1134)

1114. (MFR DISC) APP FIG. 96 AND OPTION DD MUST BE PROVIDED INSTEAD OF APP FIG. 95 AND OPTION DC IN EXISTING 4-WIRE OFFICES WHERE TWO CONTROL DIGITS PLUS A ROUTE CONTROL DIGIT (TOTAL OF THREE INFORMATION DIGITS) ARE REQUIRED. IN ADDITION, OPTION DB IF NOT ALREADY PROVIDED, MUST BE ADDED.

1115. (MFR DISC) THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE ADDED IN OFFICES BEING MODIFIED FOR MULTILEVEL PRE-EMPTION: KT,MI,ZPY, CG,GS & IY; DJ INSTEAD OF DI,DK,DL & DM; DE,DG,KT, FF,ES,DV, & DT INSTEAD OF KS,DN,DF,KJ,FE,ET,DU,& DS RESPECTIVELY; DP AND ZII INSTEAD OF DH, ZIH OR FP; IN APP FIG 58, CN INSTEAD OF IZ (J23252AJ FRAME), OR CM INSTEAD OF FV (OTHER THAN J23252AJ); IN ADDITION, OPTIONS BI & BJ, IF PROVIDED, MUST BE REMOVED AND IW MUST BE ADDED. ALSO OPTION TX MUST REPLACE TW.

1116. THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE ADDED IN OFFICES IN WHICH CCSA IS APPLIED TO CONVENTIONAL PBX-AIOD SYSTEMS: DX INSTEAD OF DW & JU (APP FIG. 57); DY INSTEAD OF WE CR WF (APP FIG. 20).

1117. OPTION CA IS FURNISHED TO GIVE A LAMP INDICATION AS A CHECK OF THE CENTREX POSITION APPEARANCE OF THE 60 IPM INTERRUPTER.

1118. WHEN AN EXISTING OFFICE IS BEING MODIFIED FOR MULTILEVEL PRE-EMPTION OR "TOUCH-TONE" CALLING OPERATION OR WHERE "TOUCH-TONE CALLING" PEG COUNT TESTS ARE DESIRED IN OFFICES ALREADY ARRANGED FOR "TOUCH-TONE" CALLING , OPTIONS CD & CE, IF NOT ALREADY PROVIDED, MUST BE FURNISHED. OPTION "CD" MUST ALSO BE PROVIDED IN AN OFFICE BEING MODIFIED FOR RATE TREATMENT.

1119. PRIOR TO ISSUE 51D, APP FIG. 47 WAS SPECIFIED FOR USE IN OFFICES ARRANGED FOR CAMA OR ANI ONLY.

1120. ZPY OPTION IS PROVIDED TO PERMIT MARKERS HANDLING TEST CALLS (MT - RELAYS OPERATED) TO OBTAIN CLASS OF SERVICE FROM KEY AND SWITCH SETTINGS RATHER THAN LINE LINK FRAME CROSS-CONNECTIONS.

1121. WHEN DIRECT ACCESS TO NO. 101 ESS IS ADDED TO AN EXISTING OFFICE, THE FOLLOWING OPTIONS IF NOT ALREADY PROVIDED, MUST BE FURNISHED: CW INSTEAD OF CV, AE INSTEAD OF AA & AB (AB WAS PART OF CS PRIOR TO ISSUE 62D), AD INSTEAD OF AC (PART OF APP FIG. 101), AI INSTEAD OF AH, DG INSTEAD OF DF. IF APP FIG. 25 IS FURNISHED, OPTION CO MUST BE ADDED. IF THE 101 ESS OFFICE IS ARRANGED FOR WIDEBAND, OPTION BK MUST BE PROVIDED.

1122. (MFR DISC) THE FOLLOWING OPTIONS MUST BE PROVIDED IN OFFICES BEING ARRANGED FOR THREE DIGIT INTERCOMMUNICATION SYSTEM: APP FIG. 102, APP FIG. 103 (WITH CT OPTION INSTEAD OF CS OPTION), CR OPTION INSTEAD OF CQ OPTION, AND UE OPTION INSTEAD OF UA, UB,UC, AND UD OPTIONS.

1123. IN OFFICES BEING ARRANGED FOR ACCESS GROUP CONTROL OPERATION OPTION XH, IF NOT ALREADY PROVIDED, MUST BE ADDED AND OPTION CZ MUST BE REPLACED BY BA IN ADDITION, WHERE APP FIG. 25 IS FURNISHED OPTION CO, IF NOT ALREADY PROVIDED, MUST BE ADDED.

1124. MR OPTION MUST REPLACE MQ OPTION AND MS MUST BE ADDED TO APP FIG. 56 IN PHASE II CENTREX OFFICES BEING MODIFIED TO PROVIDE A PRE-CROSS CONNECTED LOCAL LISTED DIRECTORY NUMBER.

1125. OPTIONS UW,NO,ZWG AND NQ MUST BE ADDED AND ZXE MUST REPLACE WX, IF PROVIDED, WHEN THE OFFICE OR THE AUTOMATIC MONITOR IS ARRANGED FOR THE NEW NUMBERING PLAN ARRANGEMENT OF TRANSLATOR AND CLASS LEADS WITH INTERCHANGEABLE AREA AND LOCAL OFFICE CODES AND TOLL INFORMATION CODES, NOR IN OFFICES REQUIRING A MORE FLEXIBLE ARRANGEMENT OF INCOMING TRUNK CLASS ASSIGNMENT. IN ORDER TO APPLY THIS FEATURE, THE FOLLOWING OPTIONS, IF PROVIDED, MUST BE REMOVED: CY,EB,EC,FA,FN,FO,GZ,IP,JL,JM, LO,NI,NJ,NP,NT,NU,NV,NW,NX,NY,NZ,OO,OW,OX,OY,PA,PB,PH,QG,QH, QX,QZ,RU,RV,ST,SU,SV,SW,UT,UU,UV,WC,WD,WG,WH,WM,WW,WX,XK,XL, XP,YT,YU,YV,YW,YX,ZE,ZXA,ZXB,ZXC,ZXD,ZXR,ZXS,XYY,ZYZ,ZIA,ZIB, ZZ,
*(TOLL INFORMATION CODES HAVE BEEN "MFR DISC." ON ISSUE 88D.)

IN ADDITION,
(1) IF THIS CKT IS ARRANGED WITH FIG.D, OPTION ZUM MUST REPLACE OPTION ZUL.
(2) IF THIS CKT IS ARRANGED WITH FIG. 57, OPTION ZUO MUST REPLACE OPTION ZUN AND OPTION ZTU IS REMOVED.
(3) IF THIS CKT IS ARRANGED WITH FIG.C, OPTION ZUP MUST BE ADDED.

IF AN OFFICE IS ARRANGED WITH AMA,CAMA, OR ANI (APP FIG. B AND 20), APP FIG. M, IF NOT ALREADY PROVIDED, MUST REPLACE APP FIG. L AND OPTION ZSI MUST BE FURNISHED.
IF THIS CKT IS PROVIDED ON OTHER THAN THE J23252-AJ FR OPTION ZVP MUST BE REMOVED.

1126. (MFR DISC) OPTION BC MUST BE PROVIDED INSTEAD OF OPTION BB IN OFFICES BEING ARRANGED FOR WIDEBAND SWITCHING. IN ADDITION, OPTIONS FD AND GM, IF NOT ALREADY PROVIDED, MUST BE ADDED. OPTION FR, IF NOT ALREADY PROVIDED, MUST BE ADDED ONLY IF OPTION ZZN IS FURNISHED; AND APP FIG. 106 AND OPTIONS BD,ZZB, ZZC,ZZD AND ZQG MUST BE FURNISHED. IF OFFICE IS ARRANGED FOR INTEROFFICE SWITCHING OF THE WIDEBAND LINK AND/OR FOR AUTOMATIC "LOOPING BACK" OF CUSTOMER VERTICALS ON TEST CALL, APP FIG.118 AND OPTION ZZO MUST BE ADDED INSTEAD OF ZZN, AND OPTION ZYF, IF PROVIDED, MUST BE REMOVED. IN OFFICES ARRANGED FOR WIDEBAND PRODUCT TRIAL, OPTIONS ZWI,ZWJ,ZWK AND ZWL ARE NOT REQUIRED AND MAY BE REMOVED AND OPTIONS GM AND FD NEED NOT BE FURNISHED.

1127. WHEN A CENTREX OFFICE IS BEING MODIFIED FOR BUSY LINE VERIFICATION (NO TEST ACCESS FROM CENTREX OPERATOR TO STATIONS IN HER CUSTOMER GROUP) OPTION BF MUST REPLACE OPTION BE AND APP FIG. 164 MUST REPLACE OPTION ZQE. ALSO OPTIONS ZPY AND ZXX MUST BE PROVIDED INSTEAD OF ZXW AND ZXV. ALSO, IF OFFICE IS A PHASE I CENTREX TYPE, OPTION AX MUST BE ADDED AND OPTION ZXU AND ZXY MUST REPLACE ZXT.

1128. IN OFFICES BEING MODIFIED TO ADD PBX BLOCK SECTION HUNTING GROUP TEST CONTROL, OPTION BL, IF NOT ALREADY PROVIDED, MUST BE FURNISHED INSTEAD OF JX OR JY OPTIONS (APP FIG. 97).

1129. BR OPTION MUST BE PROVIDED INSTEAD OF BQ OPTION AND, IF APP FIG. 25 IS FURNISHED, OPTION BK MUST BE ADDED IN EXISTING LINE LINK PULSING OFFICES BEING ARRANGED FOR INCOMING RESTRICTED SERVICE ON A HUNDRED BLOCK BASIS.

1130. OPTION BU MUST BE PROVIDED INSTEAD OF OPTIONS BS OR BT IN OFFICES IN WHICH ORIG REGISTERS ARRANGED FOR TOLL DIVERSIONS ARE TESTED BY TEST SET TYPE FACILITIES.

1131. IN OFFICES ARRANGED FOR RANGE EXTENSION OF UNIGAUGE LINES, OPTIONS DG,SH AND ZYP, IF NOT ALREADY PROVIDED, MUST REPLACE OPTION DF,SG AND ZYO RESPECTIVELY; AND, IF APP FIG.25 IS FURNISHED, BK OPTION MUST BE PROVIDED.
IN ADDITION, OPTION ZOB MUST BE REPLACED BY ZOC, IF NOT ALREADY PROVIDED.

1132. OPTION AI MUST BE PROVIDED INSTEAD OF AH (AND AF, IF PROVIDED, MUST BE REPLACED BY AG) IN OFFICES IN WHICH A SIMULATED 2-WIRE TRUNK IS PROVIDED IN THE TRUNK TEST CIRCUIT (FOR EXAMPLE REQUIRED FOR DIRECT ACCESS TO NO. 101 ESS UNIGAUGE, ETC.). IN ADDITION, OPTIONS YS AND ZZM, IF NOT ALREADY PROVIDED, MUST BE FURNISHED INSTEAD OF YR AND ZZL OPTIONS RESPECTIVELY.

1133. SEE NOTE 102(36)

1134. FROM ISSUE 43D AND PRIOR TO ISSUE 56D, APP FIG 95 (CONTROL DIGITS) WAS PART OF APP FIG 49 (4-WIRE LINES PROVIDED) AND OPTION DB WAS SPECIFIED IN NOTE 102(51) REQUIRED FOR 4-WIRE OPERATION FROM ISSUE 49D AND PRIOR TO 56D (SEE ALSO NOTE 174). FROM ISSUE 56D AND PRIOR TO ISSUE 58D, APP FIG 95 AND DB OPTION WERE SPECIFIED IN NOTE 102(70) FOR USE IN OFFICES ARRANGED FOR 4-WIRE AND PROVIDED WITH CALL PRIVILEGE CONTROL DIGITS. FROM ISSUE 58D AND PRIOR TO ISSUE 63D, APP FIG 96 AND OPTIONS DB AND DD WERE SPECIFIED IN NOTE 102(70) FOR USE IN OFFICES ARRANGED FOR 4-WIRE AND PROVIDED WITH CALL PRIVILEGE CONTROL DIGITS (SEE ALSO NOTE 1114). IN ADDITION, OPTION MJ WAS SPECIFIED IN NOTE 102 (51) FOR USE IN OFFICES ARRANGED FOR 4-WIRE LINES FROM ISSUE 49D AND PRIOR TO ISSUE 63D.

1135. (MFR DISC) IN EXISTING 4-WIRE OFFICES ARRANGED WITH CALL PRIVILEGE CONTROL DIGITS IN WHICH AN AUTOMATIC MONITOR IS ARRANGED TO TEST 4-WIRE REGISTERS AND SENDERS, OPTIONS AN AND YQ AND APP FIG 112 MUST BE PROVIDED (A) INSTEAD OF OPTIONS DB,DD AND MJ AND APP FIG.96, OR (B) INSTEAD OF OPTIONS DB, LF AND MJ AND APP FIG.95. IN ADDITION, WHERE THE OFFICE IS ARRANGED FOR MULTILEVEL PRE-EMPTION, OPTION AQ MUST BE PROVIDED INSTEAD OF OPTION AP IN APP FIG.76, AND OPTION AQ MUST BE ADDED TO APP FIG 99.

1136. OPTIONS NS, AS AND AU, IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS NR, AT AND AV, RESPECTIVELY, IN OFFICES IN WHICH THE MASTER TEST FRAME CONNECTOR IS ARRANGED TO CONVERT TROUBLE RECORDER CARD INFORMATION FROM A 1/X BASIS TO A 2/X BASIS. IN NONCONVERTED OFFICES AT OPTION MUST BE PROVIDED INSTEAD OF AS IF LAMA, CAMA, OR ANI IS ADDED AND AV MUST BE PROVIDED INSTEAD OF AU AND AW IF OFFICE IS MODIFIED FOR CAMA, SUBSEQUENT TO ISSUE 58D AND PRIOR TO ISSUE 62D AS AND AU WERE SPECIFIED IN NOTE 102 FOR SINGLE SIDED TROUBLE RECORD CARDS. AS, AU AND AW FOR DOUBLE SIDED TROUBLE RECORD CARDS WHERE THE MASTER TEST FRAME CONNECTOR WAS ARRANGED TO CONVERT FROM A 1/X BASIS TO A 2/X BASIS: AT AND AV FOR DOUBLE SIDED CARDS WHERE THE MASTER TEST FRAME CONNECTOR WAS NOT ARRANGED TO CONVERT TO A 2/X BASIS.

1137. APP FIG. 25 INSTEAD OF OPTION YF MUST BE FURNISHED AND OPTION AZ AND XH MUST REPLACE OPTION AY AND XG, RESPECTIVELY, AND ZOQ MUST REPLACE ZOP, IF PROVIDED, IN ALL OFFICES IN WHICH THE MASTER TEST FRAME CONNECTOR CKT OPERATES ALL CONNECTOR RELAYS ON TROUBLE RECORD REQUESTS AS WELL AS TEST CALLS. (SD-27718-01 OR SD-27856-01 PROVIDED OR OPTION RO PROVIDED IN SD-25805-01).

1138. CANCELLED (SEE NOTE 1255)

1139. OPTION VS INSTEAD OF VR MUST BE PROVIDED WHERE FLAT SPRING MARKERS ARE ARRANGED FOR 6-WIRE RINGING SELECTION SWITCH.

1140. OPTION CO, IF NOT ALREADY PROVIDED, MUST BE FURNISHED IN OFFICES EQUIPPED WITH APP FIG. 25 AND BEING MODIFIED FOR TRUNK NUMBER CHECK INDICATION ON MARKER LINE VERIFICATION TESTS. WHEN THE OFFICE IS NOT EQUIPPED WITH APP FIG. 25, OPTION ZPG MUST BE ADDED.

1141. OPTION NL MUST BE REMOVED IN OFFICES ARRANGED FOR AMA AND EQUIPPED FOR INTERMARKER GROUP OPERATION ONLY IF COMBINED MLV/TLV TESTS ARE DESIRED. OPTION NL MUST BE PROVIDED IN ALL OTHER OFFICES ARRANGED FOR AMA.

1142. OPTION NN, IF NOT ALREADY PROVIDED, MUST REPLACE NM IN OFFICES WHERE TRUNK NUMBER CHECK IS TO BE INDICATED ON MARKER LINE VERIFICATION TESTS.

1143. (SPL) OPTIONS GM,ZZB,ZZC AND ZZD MUST BE PROVIDED IN OFFICES ARRANGED FOR CONNECTION TO AN OPERATOR FROM COIN LINES, WITHOUT A COIN BEING DEPOSITED. THIS MODIFICATION IS REQUIRED ON THE HARTFORD DIAL TOME FIRST TRIAL.

1144. PRIOR TO ISSUE 63D, OPTION ZE WAS SPECIFIED IN NOTE 102(23) WHEN RATE DISCRIMINATION BETWEEN PHYSICAL AND THEORETICAL NUMBERS WAS TO BE CONTROLLED BY HIGH AND LOW GROUP SELECTION IN REVERTIVE PULSE INCOMING REGISTERS. THIS OPTION SHOULD BE PROVIDED ONLY WHEN THAT FEATURE IS ADDED TO AN OFFICE NOT EQUIPPED WITH THE NEW NUMBERING PLAN ARRANGEMENT.

1145. IN OFFICES WHERE THIS TEST CKT IS NOT ARRANGED FOR THE NEW NUMBERING PLAN ARRANGEMENT OF TRANSLATOR AND CLASS LEADS WITH INTERCHANGEABLE AREA AND NPA CODES AND TOLL INFORMATION CODES, THE FOLLOWING OPTIONS SHOULD BE FURNISHED WHEN THE INDICATED FEATURES ARE PROVIDED:
(A) WH - SEE NOTE 135(44).
(B) OO - SEE NOTE 135(44).
(C) NZ - CENTREX
(D) FN AND NY - DIAL TRANSFER
(E) NX - PULSE CONVERSION
(F) NW,ZXD,ZWZ - CAMA
(G) NV - TENS BLOCK SCREENING OR AUTO. INTERCEPT USING LLP.
(H) NU - DIRECT ACCESS TO NO. 101 ESS
(I) NI,NJ AND FO - AUTOMATIC MONITOR
(J) WG - SEE NOTE 135(35)
(K) FA,ZXC - LINE LINK PULSING OR AUTOMATIC INTERCEPT USING LLP
(L) IP - LINE LINK PULSING WITH LINE IDENTIFIER

1146. CANCELLED

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CIRCUIT NOTES: (CONT)

1147. IN 4-WIRE OFFICES BEING MODIFIED FOR 2-WIRE TANDEM AMA, OPTION SJ MUST REPLACE OPTION SI.

1148. OPTION UE, IF NOT ALREADY PROVIDED, MUST REPLACE OPTIONS UA,UB,UC AND UD IN ALL OFFICES ARRANGED FOR DUAL NUMBER GROUP OPERATION.

1149. OPTION ZZQ, IF NOT ALREADY PROVIDED, MUST BE ADDED IN OFFICES BEING MODIFIED FOR RANGE EXTENSION OF UNIGAUGE LINES. IN ADDITION, IF JF IS PROVIDED EA MUST ALSO BE PROVIDED OR, IF FS IS PROVIDED, IT MUST BE REPLACED BY FT.

1150. OPTION ZZS MUST REPLACE OPTION ZZR AND ZZU MUST REPLACE ZZT IN OFFICES ARRANGED FOR DEDICATED MESSAGE TIMING TRUNKS. ZZS MUST ALSO BE FURNISHED IN OFFICES HAVING OVERLOAD ANNOUNCEMENT.

1151. PRIOR TO ISSUE 63D, OPTION RK WAS SPECIFIED IN NOTE 102(52) FOR ONE OR TWO ORIGINATING REGISTER GROUPS AND FIG. 50 WAS SPECIFIED FOR THREE TO SIX ORIGINATING REGISTER GROUPS. OPTION G WAS SPECIFIED AFTER DATE STD SINCE ISSUE 61D AND PRIOR TO ISSUE 63D.

1152. CANCELED (SEE NOTE 1208)

1153. OPTIONS ZZZ AND ZYA MUST BE ADDED IN OFFICES BEING MODIFIED FOR IMPROVED 4-WIRE ECHO SUPPRESSOR OR PAD CONTROL TESTING. ALSO, IF APP FIG. 25 IS PROVIDED, OPTION BK MUST BE FURNISHED. IN ADDITION, OPTIONS ZYB AND ZYE MUST REPLACE OPTION ZYC AND ZYD RESPECTIVELY.

1154. OPTION ZYI MUST BE PROVIDED INSTEAD OF OPTION ZYH IN OFFICES BEING MODIFIED FOR 2-WAY OFF NETWORK ACCESS LINES.

1155. WHEN AN OFFICE IS ARRANGED FOR MAGNETIC TAPE RECORDING FOR AMA OR ANI, OPTION ZZK MUST REPLACE OPTION ZZJ.

1156. (MFR DISC) WHEN AN OFFICE IS ARRANGED FOR ROUTE TRANSLATORS, OPTION ZSJ MUST BE ADDED AND IF APP FIG. 25 IS PROVIDED, OPTION BK MUST BE FURNISHED.
PRIOR TO ISSUE 76D, OPTION ZYS WAS SPECIFIED IN NOTE 102(86).

1157. IN OFFICES BEING MODIFIED FOR TRAFFIC SAMPLING BY SELECTED TRUNK GROUP, OPTIONS ZVG AND ZQR MUST BE FURNISHED AND IF APP FIG. 25 IS PROVIDED, OPTION ZXO MUST BE FURNISHED. IN ADDITION, OPTION ZVI MUST REPLACE OPTION ZVH. OPTION ZQR MUST ALSO BE PROVIDED WHEN TRAFFIC SAMPLING BY CUSTOMER GROUP IS FURNISHED.

1158. IN OFFICES BEING MODIFIED WITH THE AUTOMATIC RANGE EXTENSION TEST CIRCUIT, OPTION ZXN, IF NOT ALREADY PROVIDED, MUST REPLACE OPTION ZXM, ZNK MUST BE ADDED AND ZXP OR ZXQ, IF FURNISHED, MUST BE REMOVED.

1159. ON ISSUE 56D AND PRIOR TO ISSUE 65D, OPTION FD WAS SHOWN IN NOTE 102 (68). OPTION FD WAS SPECIFIED FOR OVERLOAD ANNOUNCEMENT ON ISSUE 56D AND WAS ALSO SPECIFIED FOR WIDEBAND SWITCHING ON ISSUE 60D. WHERE OVERLOAD ANNOUNCEMENT AND/OR WIDEBAND SWITCHING IS REQUIRED, OPTION FD MUST BE FURNISHED.

1160. OPTION BP, IF NOT ALREADY PROVIDED, MUST BE FURNISHED INSTEAD OF OPTIONS BO AND ZYU IN OFFICES BEING MODIFIED FOR LINE LINK PULSING PRIOR TO ISSUE 67D AND SINCE ISSUE 49D, OPTIONS BO, BP AND ZYU WERE SPECIFIED IN NOTE 102(57).

1161. THE FOLLOWING OPTIONS MUST BE PROVIDED IN OFFICES BEING ARRANGED FOR GLARE DETECTION; ZYR INSTEAD OF ZYQ,QT OR ZP INSTEAD OF ZO,ZYE INSTEAD OF ZYD.

1162. IF AN OFFICE ARRANGED FOR TRAFFIC SAMPLING BY CUSTOMER GROUP IS BEING MODIFIED WITH THE TRAFFIC SAMPLING MONITOR, OR IF THE COMPLETING MARKER IS EQUIPPED WITH THE CUSTOMER GROUP (CLASS OF SERVICE) TRAFFIC SAMPLING CHECK CIRCUIT, OPTION ZXZ AND FIG. 130 MUST BE PROVIDED. IF APP FIG. 25 IS PROVIDED, OPTION ZXO MUST ALSO BE FURNISHED.

1163. CANCELED, SEE NOTE 102 (109).

1164. OPTION ZZK MUST BE PROVIDED IN ALL OFFICES WHOSE COMPLETING MARKERS ARE ARRANGED WITH THE TOLL DIVERSION FEATURE. AN ADDITION, IF APP FIG. 25 IS PROVIDED, OPTION ZXO MUST BE ADDED.

1165. OPTION ZWF MUST REPLACE ZWE IN ALL OFFICES ARRANGED WITH THE LINE LINK PULSING FEATURE TO ENABLE REPETITIVE TESTS OF LLP SENDERS.

1166. (MFR DISC) WHEN AN OFFICE IS ARRANGED FOR WIDEBAND (STD), THE FOLLOWING OPTIONS MUST BE FURNISHED:

ZJR INSTEAD OF ZJQ
ZPY (IF NOT ALREADY PROVIDED)
ZXX INSTEAD OF ZXV AND ZXW
(UNLESS ZXX IS ALREADY FURNISHED)
M,IY,ZZZ,ZUA,ZUE,ZVG,ZTF,ZPO
YS INSTEAD OF YR
RT INSTEAD OF RS
NN INSTEAD OF NM
LQ INSTEAD OF LP
DP INSTEAD OF DH
ZZK INSTEAD OF ZZJ
ZUD INSTEAD OF ZUC
ZYE INSTEAD OF ZYD
ZND INSTEAD OF ZNC
ZWQ INSTEAD OF ZWP
ZWS INSTEAD OF ZWR
ZZA (UNLESS ZZB IS ALREADY PROVIDED)
ZII INSTEAD OF ZIH

IN ADDITION, IF APP FIG 25 IS PROVIDED, OPTION ZXO MUST BE FURNISHED.

IF THIS FEATURE IS ADDED TO OTHER THAN J23252-AJ FRAMES, APP FIG S OR T AND OPTION ZTM MUST BE REMOVED.

ALSO, IF WIDEBAND (SPL) IS PROVIDED, OPTION ZOG MUST BE REMOVED.

1167. OPTION ZVA MUST BE PROVIDED INSTEAD OF OPTION ZWZ IN AN OFFICE WHERE THE CAMA TRANSVERTER IS FURNISHED WITH THE NEW NUMBERING PLAN ARRANGEMENT OF TRANSLATOR AND TOLL INFORMATION CODES.

1168. CANCELLED (SEE NOTE 1255)

1169. IN PHASE III CENTREX OFFICES BEING MODIFIED FOR THE CENTRALIZED ATTENDANT FEATURE THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE FURNISHED:
MH
ZUJ INSTEAD OF ZUI
ZUH INSTEAD OF ZUF AND ZUG

IN ADDITION,
IF THE OFFICE IS FURNISHED WITH AN AUTOMATIC MONITOR NOT ARRANGED WITH THE NEW NUMBERING PLAN ARRANGEMENT OF TRANSLATOR AND CLASS LEADS WITH INTERCHANGEABLE AREA AND NPA CODES AND TOLL INFORMATION CODES AND SEVEN DIGIT TRANSFER IS PROVIDED, OPTION ZVJ MUST BE PROVIDED INSTEAD OF ZTD. ALSO THE INCOMING REGISTER MUST BE ARRANGED TO ACCEPT MORE THAN ONE DIGIT REGISTRATION.

1170. CANCELED (SEE NOTE 1185)

1171. IN OFFICES PROVIDED WITH THE TEST LAMPS (APP FIG 138 WITH OPTION ZUB), OPTIONS ZVQ,ZVR,ZVS,ZVT,ZVU,ZVV,ZVW, AND ZVX MUST BE REMOVED AND OPTION ZZK, IF NOT ALREADY PROVIDED. MUST BE FURNISHED.

1172. IN OFFICES ARRANGED WITH CENTREX MULTILEVEL PRECEDENCE PRE-EMPTION 2-WAY TRUNK TESTS, OPTIONS SP,ZVG, AND ZYI MUST BE PROVIDED.

1173. APP FIG 45 WAS SHOWN UNDER NOTES 102(48) AND 102(49) SINCE ISSUE 22D AND PRIOR TO ISSUE 49D AND UNDER NOTE 102(61) SINCE ISSUE 49D.

1174. CANCELED (SEE NOTE 1208)

1175. WHERE AN EXISTING MARKER GROUP IS TO BE EXPANDED TO MORE THAN 12 MARKERS PER GROUP AND MARKER SELECTION IS PROVIDED BY:

(A) APP FIG. 19, APP FIG. 21 MUST REPLACE APP FIG. 19, AND OPTION ZUY MUST BE FURNISHED.

(B) APP FIG. 21, OPTION ZUY MUST REPLACE OPTION ZUX:

(C) APP FIG. 52, APP FIG. 81 MUST REPLACE APP FIG. 52, AND OPTION ZTA MUST BE FURNISHED.

(D) APP FIG. 81, OPTION ZTA MUST REPLACE ZUZ.

1176. SINCE ISSUE 11D AND PRIOR TO ISSUE 73D, APP FIG 33 WAS SPECIFIED IN NOTE 102 (42).

WHERE AN EXISTING MARKER GROUP IS EXPANDED TO MORE THAN 12 MARKERS PER GROUP AND THE MASTER TEST CONTROL IS ARRANGED FOR PROGRESS AND IDENTIFICATION LAMP CONTROL (APP FIG. 33), THEN APP FIG. 143 MUST REPLACE APP FIG. 33.

1177. IN EXISTING 4-WIRE OFFICES WHERE TWO WAY OFF NETWORK ACCESS LINES ARE BEING ADDED, OPTIONS ZTB, ZTC AND UY MUST BE ADDED AND UX MUST BE REMOVED. IF APP FIG. 25 IS PROVIDED, OPTION ZXO MUST BE ADDED. IF OPTION ZTO IS NOT FURNISHED OPTION ZKX MUST BE ADDED.

1178. IF ANY MARKER IS EQUIPPED FOR INTERCHANGEABLE AREA AND LOCAL OFFICE CODES, OPTIONS ZTE,ZTF, AND ZTG MUST BE PROVIDED. IN ADDITION, IF APP FIG. 25 IS PROVIDED, OPTION ZXO MUST BE FURNISHED.

1179. IN AN OFFICE ARRANGED FOR CALL WAITING, THE FOLLOWING OPTIONS MUST BE FURNISHED: LQ,ID,ZQH INSTEAD OF ZSS,ZZK,ZVG,ZQR,ZTK,ZWQ, ZWS,ZUB, AND APP FIG. 138.

1180. IN OFFICES BEING MODIFIED FOR IMPROVED CHANNEL TESTING, THE FOLLOWING OPTIONS MUST BE FURNISHED:

APP FIG. 148 AND 149, APP FIG. 33 AND 34 OR 34 AND 143, OPTION ZTO INSTEAD OF ZTN,ZKX OR UX, AND OPTION ZKK INSTEAD OF OPTION ZKJ,ZJB INSTEAD OF ZJA, IF NOT ALREADY PROVIDED,
IN ADDITION, THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE FURNISHED; XH, YS, ZPO, ZUA, ZVG, AND ZZK.

OPTION UQ, IF PROVIED, MUST BE REMOVED.

SINCE ISSUE 76D AND PRIOR TO ISSUE 88D, FIG. 149 WAS IN NOTE 102(98) FOR IMPROVED CHANNEL TESTING.

1181. IN OFFICES BEING MODIFIED FOR TESTING THE BLOCK SELECT FEATURE IN ALLOTTED PBX GROUPS, OPTION ZSB MUST BE ADDED. IN ADDITION, IF THE OFFICE IS ARRANGED FOR LINE LINK PULSING, OPTIONS ZTX MUST BE REPLACED BY OPTION ZTY AND OPTIONS ZSA AND ZTZ MUST BE ADDED. IF NON-WIRE SPRING MARKERS ARE ARRANGED FOR ALLOTED PBX NO. GROUPS, OPTION ZQT MUST BE FURNISHED (SEE NOTES 102 PAGE 7, AND 1247-P)

1182. IN OFFICES WHERE THE COIN SUPERVISORY CIRCUITS ARE BEING MODIFIED FOR SEIZURE ON A SELECTIVE CIRCUIT BASIS FROM THE MASTER TEST FRAME, APP FIG. 150 MUST BE ADDED AND NOTE 1171 MUST BE IMPLEMENTED.

1183. WHEN AN OFFICE IS BEING MODIFIED FOR WIDEBAND CENTREX OPERATION, OPTIONS ZSC AND ZSD, IF NOT ALREADY PROVIDED, MUST BE FURNISHED AND ZRK MUST REPLACE ZRJ. IN ADDITION, IF AN AUTOMATIC MONITOR IS BEING MODIFIED WITH THIS FEATURE AND THE AUTOMATIC MONITOR IS NOT ARRANGED WITH THE NEW NUMBERING PLAN ARRANGEMENT OF TRANSLATOR AND CLASS LEADS WITH INTERCHANGEABLE AREA AND NPA CODES AND TOLL INFORMATION CODES, OPTION ZSH MUST BE FURNISHED

1184. IN OFFICES BEING MODIFIED FOR TESTING LINES HAVING NO DIRECTORY NUMBER ASSIGNMENT (UNASSIGNED LINE-LINE TEST), THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE FURNISHED:
APP FIG. K INSTEAD OF J; ZNF INSTEAD OF ZYS,ZRI,ZSL INSTEAD OF ZSK; AND IF APP FIG. 58 IS PROVIDED, ZSN INSTEAD OF ZSM.
WHERE IT IS DESIRED TO PREVENT A FALSE TBL CARD WHEN MAKING UNASSIGNED LINE-LINE TESTS IN AN OFFICE WITH CALLING LINE IDENTIFICATION MARKER FEATURES, ADD OPTION ZNW.

1185. IF INTERNATIONAL DIRECT DISTANCE DIALING IS BEING ADDED TO AN OFFICE, AND THE OFFICE IS EQUIPPED WITH THE AUTOMATIC MONITOR ARRANGED FOR TESTING INTERNATIONAL DIRECT DISTANCE DIALING WITH END OF DIALING (EOD), OPTION ZVM MUST REPLACE ZVL AND CIRCUIT NOTE 1125 MUST BE IMPLEMENTED.

IN ADDITION, IF THIS CIRCUIT IS MOUNTED ON A NON J23252-AJ FRAME, THE FOLLOWING MUST BE DONE:

ADD(IF NOT ALREADY PROVIDED), APP FIGURES V,78,80 AND 84; OPTIONS JF,VG,ZYI AND ZWQ.

REMOVE(IF PROVIDED), APP FIGURES S,T,U,8,79 AND 83; OPTIONS H,P,FS,FT,JA,JB,JC,JD,JE,JG,JH,JN,KX,KY,KZ,RB, RC,RD,RE,RY,UM,WK,WL,WI,XA,XB,XD,YO,ZF,ZG,ZLR,ZTM AND ZVP.

IF RATE TREATMENT IS PROVIDED, OPTION JJ MUST REPLACE OPTION JI.

DRAWING ISSUE
73D
74A
75B
76D
77A
78D
79A
80D
81A
82D
83A

ISSUE 107A

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CIRCUIT NOTES: (CONT)

1186. IN AN OFFICE ARRANGED FOR OVERLOAD ANNOUNCEMENT AND

(A) PROVIDED WITH U-TYPE DIAL TONE MARKERS, OPTION ZQF MUST BE FURNISHED.

(B) PROVIDED ONLY WITH WIRE SPRING DIAL TONE MARKERS, OPTION ZQE MUST BE FURNISHED.

1187. WHEN AN OFFICE IS BEING PROVIDED WITH ACCESS GROUP CONTROL OPERATION OR IS BEING MODIFIED WITH MORE THAN ONE ACCESS GROUP CONTROL CIRCUITS PER NETWORK OR WITH MORE THAN FIVE ACCESS GROUP CONTROL CIRCUITS PER MARKER GROUP, APP FIGURES 81, 151 AND 152 (ONE PER COMPLETING MARKER) AND OPTIONS ZSX,ZSU INSTEAD OF ZST. AND ZSW INSTEAD OF ZSV, MUST BE FURNISHED AND ZSY, IF PROVIDED, MUST BE REMOVED.

1188. WHEN A NEW AUTOMATIC MONITOR (ISSUE 70D OR LATER) IS ADDED TO AN EXISTING OFFICE

A. PREFIX DIGITS

(MFR DISC)B. OR CALL PRIVILEGE CONTROL DIGITS, OR BOTH MUST BE PROVIDED.

1189. WHEN AN OFFICE IS FURNISHED WITH A SECOND TOLL OR TANDEM ORIGINATING TEST LINE FOR LOOP AROUND TRANSMISSION TESTING OF TOLL OR TANDEM TRUNKS, OPTIONS ZRA AND ZRB MUST BE PROVIDED.

1190. WHEN AN OFFICE IS EQUIPPED WITH THE PRETRANSLATOR FOR INTERNATIONAL DIRECT DISTANCE DIALING, THE FOLLOWING OPTIONS MUST BE FURNISHED.

A. IF THIS CIRCUIT IS ARRANGED WITH APP FIG. 21, OPTION ZRC MUST BE ADDED. IF PRETRANSLATOR NO.2 IS NOT PROVIDED, OPTION ZRD MUST BE ADDED.

B. IF THIS CIRCUIT IS ARRANGED WITH APP FIG.52, OPTION ZRF MUST REPLACE OPTION ZRE.

C. IF THIS CIRCUIT IS ARRANGED WITH APP FIG. 81, OPTION ZRH MUST REPLACE OPTION ZRG.

1191. WHEN AN OFFICE IS BEING MODIFIED FOR PRETRANSLATORS FOR USE WITH INCOMING REGISTERS, OPTION ZPY MUST REPLACE CL. ALSO, IF

A. THIS CIRCUIT IS ARRANGED WITH FIG. 21, OPTION ZRQ MUST BE FURNISHED. IN ADDITION, IF PRETRANSLATOR NO. 2 IS NOT PROVIDED, OPTION ZRD MUST BE ADDED AND, IF OPTION ZRC (IDDD PRETRANSLATORS) IS NOT PROVIDED, OPTION ZRN MUST BE FURNISHED.

B. THIS CIRCUIT IS ARRANGED WITH FIG. 52, OPTION ZRM MUST REPLACE OPTION ZRL.

C. THIS CIRCUIT IS ARRANGED WITH FIG. 81, OPTION ZRQ MUST REPLACE OPTION ZRP. IN ADDITION, FIG. F WITH OPTION ZI, ZJ, AND ZK MUST BE FURNISHED.

1192. WHEN AN OFFICE IS ADDING ONE OR MORE OF:

A. AUTOMATIC PROGRESSION TRUNK TEST CKT.
B. REMOTE OFFICE TEST LINE CKT.
C. REMOTE OFFICE TEST LINE REGISTER CKT.
D. LINE VERIFICATION CKT.
E. LINE INSULATION TEST CONTROL CKT ARRANGED WITH DIRECTORY NUMBER PRINTOUT.
F. TRUNK TEST REGISTER CKT.
G. RANGE EXTENSION TEST CKT.
H. WIDEBAND TRUNK TEST REGISTER CKT.
I. COMPUTER LINE VERIFICATION ACCESS CKT (LAMA-C).
J. POWER AND DATA INTERFACE CKT (NO. 5 ETS).
K. MINI-REMOTE OFFICE TEST LINE INTERFACE CKT.

I. COORDINATING NOTES:

A. CIRCUIT NOTE 1171 SHOULD BE IMPLEMENTED TO GAIN MOUNTING SPACE FOR TEST LAMPS.

II. HISTORY OF NOTES:

A. PRIOR TO ISSUE 80D, APP FIGURES 27 AND 39 WERE SHOWN IN NOTE 102(38). IN ADDITION, FROM ISSUE 56D TO 80D, OPTIONS ZOI,ZOJ AND APP FIG. 159 WERE SHOWN IN NOTE 102(20) FOR REMOTE OFFICE TEST LINE CKT NOT PROVIDED AND PROVIDED, RESPECTIVELY.

B. SINCE ISSUE 80D AND PRIOR TO 98B, IF AN OFFICE ADDED ONE OR MORE OF THE ABOVE TEST CIRCUITS, THE OFFICE WAS REQUIRED TO UPDATE WITH APP FIG. 154 (SEE PARTS III AND IV OF THIS NOTE). SINCE ISSUE 98B THIS IS NO LONGER REQUIRED.

III. OFFICE IS ALREADY ARRANGED WITH APP FIG. 154 OR IS BEING ARRANGED PER SECTION IV OF THIS NOTE (PREVIOUSLY PART OF NOTE 1236):

A. LINE VERIFICATION CKT IS FURNISHED: PROVIDE OPTION ZNH

B. COMPUTER LINE VERIFICATION ACCESS CKT IS FURNISHED (LAMA-C) AND:

1. LINE VERIFICATION CKT WAS NOT PROVIDED: ADD OPTION ZNI.

2. LINE VERIFICATION CKT WAS PROVIDED: ADD OPTION ZNI AND REMOVE ZNH.

C. POWER AND DATA INTERFACE CKT IS FURNISHED (NO. 5 ETS) AND:

1. LINE VERIFICATION CKT WAS NOT PROVIDED: ADD OPTION ZLQ.

2. LINE VERIFICATION CKT WAS PROVIDED: ADD OPTION ZLQ AND REMOVE ZNH.

D. LINE INSULATION TEST CONTROL CKT ARRANGED WITH DIRECTORY NUMBER PRINTOUT IS BEING ADDED OR LINE INSULATION TEST CONTROL CKT IS BEING MODIFIED WITH DIRECTORY NUMBER PRINTOUT: ADD OPTION ZMG.

IV. OFFICE IS NOT ARRANGED WITH FIG. 27 AND IS BEING MODIFIED WITH IMPROVED TEST PREFERENCE CIRCUIT (APP FIG. 154; REQUIRED WHEN ONE OR MORE OF ABOVE TEST CIRCUITS ARE BEING ADDED):

A. ADD, IF NOT ALREADY PROVIDED APP FIG. K INSTEAD OF APP FIG. J; APP FIGURES 29, 154; OPTIONS YG,WN,VJ (APP FIG 25), TA,ZUA,ZRZ,ZRW,ZQA,ZPO; ZZM INSTEAD OF ZZL; YS INSTEAD OF YR, ZII INSTEAD OF ZIH; WHEN APP FIG 8 IS FURNISHED, PROVIDE ZSI.

B. SECTION III OF THIS NOTE SHOULD BE CONSIDERED. NOTE 1171 MUST BE IMPLEMENTED.

V. OFFICE IS ARRANGED WITH APP FIGURES 27 AND 28 AND ONE OR MORE OF ABOVE TEST CIRCUITS ARE BEING ADDED:
ADD APP FIG. 39 AND REMOVE APP FIG. 28; PROVIDE OPTIONS ZKR, ZOI,ZOJ,ZWV,ZXK,MF.
IN ADDITION
A. WHEN LINE VERIFICATION CKT IS FURNISHED, PROVIDE OPTION ZMH.

B. WHEN TRUNK TEST REGISTER CKT IS FURNISHED, (FORMERLY IN NOTE 173), PROVIDE OPTION MG AND REMOVE MF.

C. WHEN AUTOMATIC RANGE EXTENSION TEST CKT IS FURNISHED, PROVIDE OPTIONS ZXL AND MG AND REMOVE ZXK AND MF.

D. WHEN WIDEBAND TRUNK TEST REGISTER CKT IS FURNISHED (FORMERLY IN NOTE 1166), ADD OPTIONS ZRT,ZWW,ZXL,AND MG AND REMOVE OPTIONS ZWV,ZXK, AND MF.

E. WHEN REMOTE OFFICE TEST LINE CKT OR REMOTE OFFICE TEST LINE REGISTER CKT IS FURNISHED, ADD APP FIG. 159 AND REMOVE OPTIONS ZOI AND ZOJ.

F. WHEN THE LINE INSULATION TEST CKT ARRANGED WITH DIRECTORY NUMBER PRINTOUT IS BEING ADDED OR THE LINE INSULATION TEST CKT IS BEING MODIFIED FOR DIRECTORY NUMBER PRINTOUT, ADD APP FIG. 174 AND OPTION ZKS AND REMOVE OPTION ZKR.

G. WHEN THE COMPUTER LINE VERIFICATION ACCESS CKT (LAMA-C) IS FURNISHED AND THE LINE VERIFICATION CKT WAS :

1. NOT FURNISHED, ADD OPTION ZMI

2. FURNISHED, ADD OPTION ZMI AND REMOVE ZMH

H. WHEN THE POWER AND DATA INTERFACE CKT (NO. 5 ETS) IS FURNISHED AND THE LINE VERIFICATION CKT WAS:

1. NOT FURNISHED, ADD OPTION ZLP.

2. FURNISHED, ADD OPTION ZLP AND REMOVE ZMH.

1193. WHEN DYNAMIC OVERLOAD CONTROL AND/OR EADAS/NM (FOR CONTROL OF ROUTES 20-39) IS PROVIDED IN AN OFFICE, OPTIONS YS,ZPO,ZZK,ZUA AND ZQD MUST BE FURNISHED.

1194. WHERE MARKER CONTROLLED IMMEDIATE RING IS PROVIDED IN AN OFFICE AND APP FIG. 25 IS FURNISHED, OPTION ZXD MUST BE PROVIDED. FROM ISSUE 63D AND PRIOR TO 67D. OPTION ZXD WAS SHOWN IN CKT NOTE (102(83) FOR MARKER CONTROLLED IMMEDIATE RING PROVIDED.

1195. IN AN OFFICE ARRANGED WITH AUTOMATIC RECYCLE OF THE TRUNK TEST CIRCUIT, OPTIONS ZQK,ZQL,ZQM,ZQN,SN AND QJ, IF NOT ALREADY PROVIDED, MUST BE FURNISHED, AND OPTION ZPX MUST REPLACE ZPW. ALSO, IF APP FIG. 27 OR 154 IS NOT ALREADY FURNISHED, OPTION ZZH SHOULD BE PROVIDED.

1196. OPTION ZQN, IF NOT ALREADY PROVIDED, MUST BE ADDED WHEN THE AUTOMATIC MONITOR REGISTER AND SENDER TEST CKT IS PROVIDED.

1197. IF AN OFFICE ARRANGED WITH GLARE DETECTION FEATURE IS BEING MODIFIED WITH IMMEDIATE GLARE TEST, OPTION ZQQ, IF NOT ALREADY PROVIDED, MUST BE PROVIDED INSTEAD OF ZQY. IN ADDITION, ZPC OPTION, IF FURNISHED MUST BE REPLACED BY OPTION ZPD.

1198. IN AN OFFICE PROVIDED WITH AN HTR KEY, OPTION ZQP MUST BE REPLACED BY OPTION ZQQ AND OPTION ZQR, IF NOT ALREADY PROVIDED, MUST BE ADDED WHERE ISOLATION OF THE HTR LEAD TO THE MASTER TEST FR CONNECTOR IS DESIRED TO PREVENT A POSSIBLE MISLEADING HTR PUNCH ON A TROUBLE RECORD CARD OF A SERVICE CALL, OR WHERE THE INTERFACE CKT FOR PROGRAM CONTROLLED DATA ACQUISITION IS PROVIDED.

1199. WHEN TESTING OF THE MARKERS TRUNK GUARD FEATURE IS TO BE PROVIDED, OPTION ZQY MUST BE ADDED AND ZQU REMOVED. IF AN OFFICE HAS TANDEM SWITCHING, OPTION M MUST BE FURNISHED.

1200. IF A MARKER GROUP IS BEING ARRANGED TO CANCEL AMA ON TEST CALLS, OPTION ZQW (UNLESS ZNY OR ZOF PROVIDED) AND ZQR MUST BE FURNISHED. IN ADDITION ZQK MUST ALSO BE ADDED. IF APP FIG. 27 OR 154 IS FURNISHED, OPTION ZQT MUST BE PROVIDED.

1201. IN ANY OFFICE ARRANGED WITH PAIRED LINE LINK FRAMES WHERE POSITIVE CHECK OF MARKER RELAY STPA IS DESIRED. OPTION ZPB MUST REPLACE ZPA AND OPTION ZQR MUST BE ADDED, AND NOTE 1171 MUST BE IMPLEMENTED.

1202. (A&M ONLY) WHERE AN OFFICE IS PROVIDED WITH COMBINED MARKERS AND THE CALL WAITING FEATURE IS BEING ADDED, OPTIONS ZTF AND ZQZ MUST BE ADDED.

1203. RESERVED.

1204. PRIOR TO ISSUE 76D AND SINCE ISSUE 67D, OPTION ZTK WAS SPECIFIED IN CIRCUIT NOTE 102(17) FOR AMA OR AMA-ANI PROVIDED WITH MAGNETIC TAPE RECORDING.

1205. WHERE A MARKER GROUP IS BEING ARRANGED TO WORK WITH A MAXIMUM OF 20 AMA RECORDERS, OPTIONS PG AND SZ MUST BE PROVIDED, IN CAMA OFFICES OPTION RQ MUST BE ADDED.

1206. WHERE A MARKER GROUP IS ARRANGED TO WORK WITH 30 AMA RECORDERS, OPTIONS PG AND SZ, IF NOT ALREADY PROVIDED, MUST BE FURNISHED, AND OPTION ZTL MUST BE ADDED. IN CAMA OFFICES OPTION RQ MUST BE PROVIDED.

1207. CANCELLED.

1208. AUTOMATIC CALL DISTRIBUTION

(MFR DISC.) A. WHEN AN OFFICE IS ARRANGED FOR ACD, APP FIG. 120 MUST BE ADDED AND OPTION ZZW MUST REPLACE OPTION ZZV. THIS WAS SHOWN IN NOTE (102(88) SINCE ISSUE 65D AND IS RATED MFR DISC. ON ISSUE 84D BECAUSE SD-27997-01 REPLACES THIS CKT FOR ACD USE.

(A&M ONLY) B. WHEN INTRAFLOW IS ADDED, APP FIG. 155 AND OPTION ZYX MUST BE FURNISHED AND OPTION ZNM AND ZNL MUST BE REMOVED. ALSO, OPTIONS XH AND ZQR MUST BE PROVIDED AND OPTION CU MUST BE REMOVED.

(MFR DISC.) C. (PREVIOUSLY NOTE 1152)
IN OFFICES BEING ARRANGED FOR ACD, OPTIONS GM AND FD MUST BE FURNISHED AND, IF APP FIG. 25 IS PROVIDED, OPTIONS CO AND BK MUST BE FURNISHED.

(A&M ONLY) D. (PREVIOUSLY NOTE 1174)
IN AN ACD OFFICE ARRANGED FOR IMPROVED POSITION TRUNK TESTING, OPTION ZUU MUST BE ADDED AND THE FOLLOWING OPTIONS MUST BE FURNISHED:
ZUT INSTEAD OF ZUS; ZUW INSTEAD OF ZUV.

(MFR DISC.) E. (PREVIOUSLY PART OF NOTE 102(36) SINCE ISSUE 65D)
WHEN ACD IS PROVIDED, APP FIG. 31 AND OPTION XJ MUST BE FURNISHED.

(MFR DISC.) F. (PREVIOUSLY PART OF NOTE 102(52) SINCE ISSUE 65D)
WHEN ACD IS PROVIDED AND ORIGINATING REGISTER GROUP SELECTION IS PROVIDED (FOR 1 TO 6 ORIGINATING REGISTER GROUPS), APP FIG. 119 AND OPTION ZZY MUST BE FURNISHED.

(MFR DISC.) G. (FORMERLY PART OF NOTE 102(89) SINCE ISSUE 65D)
WHEN OFFICE IS ARRANGED FOR ACD, APP FIG. 121 MUST BE PROVIDED.

(MFR DISC.) H. (FORMERLY PART OF NOTE 102(90) SINCE ISSUE 65D)
WHEN OFFICE IS ARRANGED FOR ACD, APP FIG. 129 MUST BE PROVIDED.

(A&M ONLY) I. WHEN OPERATOR INITIATED CALL TRANSFER IS FURNISHED, APP FIG. 156 AND OPTIONS ZPF AND ZOV MUST BE PROVIDED AND OPTIONS ZPE,ZOU,ZOS, AND ZLH MUST BE REMOVED.

(MFR DISC.) J. APP FIG. 61 AND OB OPTION ARE NOT REQUIRED FOR ACD APPLICATION.

K. CANCELED

(A&M ONLY) L. WHEN CONTROL OF MARKERS TRUNK SELECTION SEQUENCE RELAYS IS PROVIDED, APP FIG. 160 MUST BE FURNISHED INSTEAD OF BX.

(A&M ONLY) M. OPTION ZLG MUST BE FURNISHED WHEN THE MARKER IS PROVIDED WITH ZB OPTION.

(A&M ONLY) N. WHEN ACD CLOSE DOWN SERVICE IS PROVIDED WITH CLOSE DOWN TRUNKS TERMINATING IN ANOTHER ACD OFFICE OPTION ZLH MUST BE REPLACED BY OPTION ZLI.

1209. PRIOR TO ISSUE 53D, NOTE 102(38) SPECIFIED APP FIG. 25 AND APP FIG. 26 SINCE ISSUE 11D, AND OPTION VV SINCE ISSUE 21D WHEN ANY OR ALL OF THE FOLLOWING ARE PROVIDED: AUTOMATIC PROGRESSION TRUNK TEST CIRCUIT; LINE VERIFICATION CIRCUIT; TRUNK TEST REGISTER CIRCUIT; AUTOMATIC RANGE EXTENSION TEST CIRCUIT; TRUNK TEST REGISTERS (WIDEBAND); OR REMOTE OFFICE TESTING. ALSO PRIOR TO ISSUE 53D, NOTE 102(38) SPECIFIED OPTIONS YF AND YP SINCE ISSUE 11D, OPTION VE SINCE 16D, AND OPTION VW SINCE ISSUE 21D. FOR NONE OF THE ABOVE MENTIONED CIRCUITS PROVIDED. WHERE AN EXISTING OFFICE IS ADDING ANY OF THE MENTIONED CIRCUITS, APP FIGURES 25 AND 26 AND OPTIONS ZMM, VJ AND VV MUST BE PROVIDED, OPTIONS YF,YP,VE, AND VW MUST BE REMOVED.

1210. WHERE A MARKER GROUP IS ARRANGED FOR EXPANDED PERMANENT SIGNAL ROUTING, OPTION UQ (IF FURNISHED) MUST BE REMOVED. AND OPTIONS ZQR,ZUA,ZPO,YS INSTEAD OF YR AND ZZK MUST BE ADDED, OPTION ZKK INSTEAD OF ZKJ MUST BE ADDED AND OPTION ZUD INSTEAD OF ZUC (IF NOT ALREADY PROVIDED) MUST BE ADDED. IF WIDEBAND (APP FIG. 134) IS ALREADY FURNISHED,OPTION ZND MUST REPLACE ZNC. IF WIDEBAND IS NOT FURNISHED, OPTION ZJQ INSTEAD OF ZJR MUST BE FURNISHED.

1211. WHERE AN OFFICE IS CONVERTING FROM PAPER TAPE RECORDING TO MAGNETIC TAPE RECORDING OF AMA CALLS, MODIFICATION MUST BE MADE ACCORDING TO ES-27157-01 FOR THE INTERIM PERIOD. IN ADDITION, APP FIG. 161 MUST BE FURNISHED INSTEAD OF APP FIG. 132.

1212. RESERVED.

1213. THE RINGING CODE LAMPS (1,1+,2,2+,3,3+,4,5,FLI) OPTIONS XQ,XR,XS, XT,XU, AND ZQR, ARE RATED "MO" AND MAY BE REMOVED SINCE TEST PROCEDURES USING THIS CIRCUIT DO NOT SPECIFY THE USE OF THESE LAMPS AND THEIR INDICATIONS MAY BE MISINTERPRETED.

1214. CANCELED

1215. SINCE ISSUE 53D UNTIL ISSUE 89A (AC) APP FIG. 88 WAS SPECIFIED IN CIRCUIT NOTE 102(65) FOR AMA CAMA, ANI OR DIAL TRANSFER. WHERE AN OFFICE IS BEING ARRANGED FOR AMA MAGNETIC TAPE RECORDING, APP FIG. 88, IF PROVIDED, MUST BE REPLACED BY APP FIG. 163. IN ADDITION, ANY OFFICE MANUFACTURED PRIOR TO ISSUE 53D AND NOT PROVIDED WITH APP FIG. 88, AND WHICH IS ADDING PAPER TAPE RECORDING REATURES, MUST FURNISH APP FIG. 163.

1216. WHERE IT IS DESIRED TO GIVE THE COMPLETING MARKER AN EARLY DISCONNECT SIGNAL ON THE DIS LEAD WHEN AN INTERCEPT CONDITION (BLANK NUMBER, REGULAR INTERCEPT OR TROUBLE INTERCEPT) IS ENCOUNTERED BY THE MARKER ON LINE VERIFICATION OR LINE TESTS AND THE OFFICE IS NOT EQUIPPED WITH EITHER VERSION OF AUTOMATIC INTERCEPT AND

A. OPTION ZVO IS PROVIDED:
OPTIONS ZJG,ZJH AND ZVG MUST ALSO BE PROVIDED
OPTION ZJL MUST BE REMOVED
OPTION ZOY INSTEAD OF ZOX
OPTION ZVF INSTEAD OF ZVE

B. OPTION NH IS PROVIDED AND OPTIONS ZVF AND ZVG ARE ALSO PROVIDED:
OPTIONS ZVD,ZJH AND ZJG INSTEAD OF NH

C. OPTIONS NH AND ZVE ARE PROVIDED: NO OTHER CHANGES ARE NECESSARY AND THE OFFICE IS EQUIPPED WITH THE EARLY DISCONNECT FEATURE DESCRIBED ABOVE. (FOR OFFICES EQUIPPED WITH EITHER VERSION OF AUTOMATIC INTERCEPT SEE NOTE 1255).

1217. PRIOR TO ISSUE 80D AND SINCE ISSUE 65D,OPTIONS ZNA AND ZNB WERE SPECIFIED IN NOTE 102 (87) FOR TANDEM AMA 2-WIRE NOT PROVIDED AND PROVIDED, RESPECTIVELY.

1218. PRIOR TO ISSUE 88D AND SINCE ISSUE 67D, FIG. 123 AND OPTION ZYT WERE SPECIFIED IN NOTE 102 (86) FOR ROUTE TRANSLATOR PROVIDED.

1219. PRIOR TO ISSUE 88D AND SINCE THE ISSUES INDICATED, THE FOLLOWING OPTIONS WERE SPECIFIED IN NOTE 102 (59) FOR CONFERENCE CONTROLLER PROVIDED:
FIG. 62 AND OPTION ME - ISSUE 49D
FIG. 110 AND OPTION TO - ISSUE 53D
OPTION IA WAS FURNISHED WITH FIG. 110 SINCE ISSUE 51D.

1220. SINCE ISSUE 63D AND PRIOR TO ISSUE 88D. NOTE 102 (70) WAS SHOWN AS FOLLOWS: FIG 112 AND OPTION AN WERE RATED MFR DISC. ON ISSUE 88D.

PREFIX DIGITS OR CALL PRIVELEGE CONTROL DIGITS OR BOTH	PREFIX DIGIT CONTROL PROVIDED BY MASTER TEST CONTROL CKT AND CALL PRIVILEGE CONTROL DIGITS NOT PROVIDED (AUTO. MON REQUIRED: 2-WIRE OR 4-WIRE LINES OR BOTH PROVIDED)	116	YQ
	OFFICE IS ARRANGED FOR 4-WIRE AND CALL PRIVELEGE CONTROL DIGITS ARE PROV)	112	AN
	AUTO. MON ARRANGED FOR 4-WIRE		YQ
	OFFICE IS ARRANGED WITH 2-WIRE AND 4-WIRE LINES AND CALL PRIVILEGE CONTROL DIGITS ARE PROVIDED	112	AN
	AUTO. MONITOR IS NOT ARRANGED WITH 4-WIRE AND PREFIX CONTROL IS PROVIDED BY MASTER TEST CONTROL CKT		

MASTER TEST CONTROL CIRCUIT

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CIRCUIT NOTES: (CONT)

1221. PRIOR TO ISSUE 88D AND SINCE ISSUE 58D, FIGURES 98 AND 99 AND OPTION DO WERE SPECIFIED IN NOTE 102(72) FOR 4-WIRE MULTILEVEL AUX LINES AND TRUNKS PROVIDED. OPTION CK WAS SPECIFIED IN THAT NOTE FOR FEATURE NOT PROVIDED. ON ISSUE 63D OPTION AR WAS ADDED TO 4-WIRE AUX LINES AND TRUNKS PROVIDED. IN ADDITION OPTION AQ (FIG. 76) ZMP (PART OF RJ) ZMQ (PART OF EZ OF FIG. 49) WAS PAROVIDED FOR MULTILEVEL PREEMPTION.

1222. SINCE ISSUE 53D AND PRIOR TO ISSUE 88D, OPTIONS MY AND RO WERE SPECIFIED IN NOTE 153 TO BE PROVIDED IF, BESIDES BEING ARRANGED FOR 4-WIRE, THE OFFICE HAD PREEMPTION.

1223. SINCE ISSUE 49D AND PRIOR TO ISSUE 88D, FIGURES 59 AND 92 AND OPTION SL WERE SPECIFIED IN NOTE 102(53) FOR PREEMPTION PROVIDED.

1224. OPTION ZML MUST REPLACE ZMK AND PY MUST BE PROVIDED IN 4-WIRE OFFICES MODIFIED FOR 2-WIRE OPERATION IN ORDER TO PROVIDE SEPARATE TRUNK LINK FRAME NUMBERS PER NOTE 304.

1225. IN AN EXISTING OFFICE, IF OPTIONS DL OR DJ ARE NOT FURNISHED, OPTION ZNG MUST BE PROVIDED.

1226. SINCE ISSUE 67D UNTIL ISSUE 91A(AC), OPTION ZXQ WAS SPECIFIED IN CIRCUIT NOTE 102(80) FOR RANGE EXTENSION NOT PROVIDED.

1227. CANCELLED (SEE NOTE 1225)

1228. SINCE ISSUE 11D AND PRIOR TO ISSUE 90D, CIRCUIT NOTE 102(38) WAS SHOWN AS BELOW. ON ISSUE 90D THE FOLLOWING OPTIONS WERE RERATED TO "MFR DISC.": OPTIONS ZNP,ZNQ, AND ZNO. ALSO RERATED TO AFTER DATE STANDARD WHERE APP FIG. 24, 29, AND 154, AND OPTIONS VJ, YG, ZRW, AND ZRZ.

38	AUTOMATIC PROGRESSION TRUNK TEST CKT, LINE VERIFICATION CKT,TRUNK TEST REGISTER CKT, AUTOMATIC RANGE EXTENSION TEST CKT,TRUNK TEST REGISTER (WIDEBAND), REMOTE OFFICE TESTING	NONE PROVIDED		24	ZNP, ZNQ	1 PER CKT
		MAG TAPE AMA RCDG PROVIDED			ZNO	
		ANY OR ALL PROVIDED		24, 154	ZRW, ~~ZRZ~~, VJ, VV, YG	1 EACH PER CKT
		WIDEBAND PROVIDED	YES		ZWW	
			NO		ZWV,ZWY	
		CAMA, AMA OR ANI PROVIDED		29		1 PER CKT

OPTIONS ZWW, ZWV, AND ZWY ARE RELOCATED TO NOTE 102(93). SINCE ISSUE 98B, OPTIONS ZWW AND ZWV ARE SHOWN IN NOTE 1192.

1229. WHERE IT IS DESIRED TO ELIMINATE THE MARKER'S TT RELAY CHECK (i.e. PREVENT OPERATION OF TTK RELAY IN MARKER), APP FIG. 148 MUST BE FURNISHED WITH ZNS INSTEAD OF ZNR. IN ADDITION, ZNU MUST REPLACE OPTION ZNT.

1230. OPTION ZNZ IS RATED "MFR DISC." AND REPLACED BY ZMA IN APP FIG. 114. THE NPC KEY (ZNZ OPTION) WAS USED EXCLUSIVELY FOR MULTILEVEL PREEMPTION WHICH WAS RATED "MFR DISC." ON ISSUE 88D.

1231. WHERE LAMA-C/SCC IS BEING ADDED TO AN OFFICE, OPTION ZQR MUST BE ADDED.

1232. IN AN OFFICE ADDING THE MARKER CONTROLLED IMMEDIATE RING FEATURE (APP FIG. 113), OPTION ZXQ, IF PROVIDED, MUST BE REMOVED.

1233. CANCELED

1234. WHERE A CAMA OFFICE DESIRES TO REDUCE THE TIME SERVICE OBSERVING IS DISABLED DURING TEST CALLS, OPTION ZMF SHOULD BE ADDED. OPTION ZTK, IF NOT ALREADY PROVIDED, MUST BE ADDED.

1235. IF AN OFFICE WITH PHASE III CENTREX CENTRALIZED ATTENDANT OPERATION HAS LDN TRAFFIC ROUTED TO A PRIMARY OFFICE FROM A SECONDARY OFFICE, OPTION ZWH MUST BE ADDED, ZYG MUST BE REMOVED, AND ZYI MUST REPLACE ZYH. BOTH PRIMARY AND SECONDARY OFFICES ARE AFFECTED.

1236. A. IF AN OFFICE IS ADDING APP FIG. 154 PER CIRCUIT NOTE 1192 OR ALREADY HAS FIG. 154
   1. AND THE COMPUTER LINE VERIFICATION ACCESS CIRCUIT IS NOT FURNISHED OR IS NOT BEING FURNISHED BUT THE LINE VERIFICATION CIRCUIT IS FURNISHED, PROVIDE OPTION ZNH.
   2. AND THE COMPUTER LINE VERIFICATION ACCESS CIRCUIT IS FURNISHED OR IS BEING FURNISHED OPTION ZNI MUST REPLACE ZNH.

   B. WHERE THE COMPUTER LINE VERIFICATION ACCESS CIRCUIT IS GOING INTO AN OFFICE WITHOUT FIG. 39 OR FIG. 154, NOTE 1192 MUST BE IMPLEMENTED.

   C. IF AN OFFICE EQUIPPED WITH FIG. 39 IS ADDING ONLY THE COMPUTER LINE VERIFICATION ACCESS CIRCUIT AND
   1. THE LINE VERIFICATION CIRCUIT IS ALREADY PROVIDED OPTIONS ZMI MUST BE APPLIED AND ZMH OPTION REMOVED.
   2. THE LINE VERIFICATION CIRCUIT IS NOT FURNISHED, OPTION ZMI MUST BE APPLIED.

1237. RESERVED

1238. PROVISIONS FOR PROGRAM CONTROL TRANSVERTER FOR NO. 5 ETS (CAMA ONLY) ARE MADE ONLY FOR OFFICES BEING MODIFIED FROM EXISTING LAMA AND/OR ANI OR COMBINED LAMA-ANI OR CAMA TRANSVERTER TYPE (PAPER OR MAGNETIC TAPE RELORDING) OF OPERATION TO NO. 5 ETS (CAMA ONLY) OPERATION.

1239. OPTION ZMW IS PROVIDED INSTEAD OF ZMX WHEN OPTION ZUF IS FURNISHED AND THE OFFICE IS ARRANGED WITH U&Y TYPE (A&M ONLY) COMPLETING MARKERS (SD-25550-01).

1240. IN AN OFFICE WHERE MARKERS ARE PROVIDED WITH TWO-STEP ALLOTTERS (OPTION D) AND WHERE A TRUNK CAN BE ACCESSED ONLY ON A ROUTE ADVANCE BASIS FROM AN ALLOTTED TRUNK GROUP, OPTION ZTP MUST REPLACE ZTJ, OPTION ZTR MUST ~~REPLACE ZTQ AND OPTION ZTG MUST~~ REPLACE ZTF.

1241. IF REPEAT TEST ARE TO BE MADE ON A ROUTE ADVANCE TRUNK GROUP USING EITHER THE AUTOMATIC MONITOR REGISTER SENDER TEST CIRCUIT (SD-25680-01) OR THE RECYCLE FEATURE OF THE TRUNK TEST CIRCUIT (SD-25918-01) OPTION ZLA MUST BE PROVIDED AND OPTION ZLB MUST BE REMOVED.

1242. WHEN TANDEM AMA IS PROVIDED: OPTION ZLC INSTEAD OF OPTION QU,QV, OR QW MUST BE FURNISHED AND WHEN OPTION JG IS ~~PROVIDED~~, OPTION ZLF INSTEAD OF QK OR QJ AND OPTION RE INSTEAD RD MUST BE FURNISHED.

1243. SINCE ISSUE 63D AND PRIOR TO ISSUE 96B APP FIG. 114 AND ZZP OPTION WERE SHOWN IN NOTE 102 (85) AS FOLLOWS:

85	AUTOMATIC INTERCEPT USING LLP, 911 EMERGENCY REPORTING SERVICE, 2-WAY OFF.NETWORK ACCESS LINES, CENTRALIZED ATTENDANT OPERATION, CENTREX MULTILEVEL PRECEDENCE PREEMPTION, 2-WAY TRUNK TEST, WIDEBAND SWITCHING, OR DIRECTORY ASSISTANCE CHARGING PROVIDED	114	ZZP	1 PER CKT

WHEN APP FIG. 114 IS APPLIED TO AN OFFICE ARRANGED PRIOR TO ISSUE 11D, APP FIG. 24 MUST BE ADDED. APP FIG. 114 AND ZZP OPTION MUST BE PROVIDED WHEN TEST RELAY IS PROVIDED IN LINE CKT OR WHERE THE TRUNK CKT IS PROVIDED WITH A "TK" LEAD OR THE LINE CKT IS PROVIDED WITH A "LK" LEAD TO PROVIDE A LOCK PATH FOR THE TEST RELAY.

1244. WHEN A CAMA OFFICE IS ARRANGED FOR BOTH LOCALLY AND REMOTELY LOCATED OPERATORS (ZPP OPTION) AND BOTH LOOP AND E&M SIGNALING ARE PROVIDED, OPTION ZOM INSTEAD OF ZOL MUST BE FURNISHED, AND IF:
A. CAMA ONLY IS FURNISHED, OPTION ZMN IS ADDED.
B. COMBINED CAMA/ANI IS FURNISHED, OPTION ZMO IS ADDED.

1245. WHEN TRUNK GROUP TRAFFIC SAMPLING IS FURNISHED, PROVIDE OPTION ZOO TO PREVENT A POSSIBLE OFFICE ALARM WHEN AN AUTOMATIC TRUNK GROUP TRAFFIC SAMPLING TEST IS STARTED AT THE JACK, LAMP, AND KEY CKT. WHEN TRAFFIC SAMPLING BY CUSTOMER GROUP IS PROVIDED AND THE TRANSVERTER IS ARRANGED TO PERMIT TRAFFIC SAMPLED CALLS TO ATTEMPT COMPLETION ON A SECOND TRIAL BASIS, OPTION ZLN MUST BE REPLACED BY ZLO.

1246. WHEN NO. 5 ETS IS PROVIDED, NOTE 1137 MUST BE IMPLEMENTED. WHEN APP FIG. 25 IS ALREADY PROVIDED, OPTION ZLM MUST BE REMOVED.

1247. IN AN OFFICE BEING ARRANGED WITH NO. 5 ETS AND APP FIG. 168, 169 ARE PROVIDED:
A. WHEN OPTION RY WAS FURNISHED ADD OPTIONS ZLS AND ZLT; REMOVE OPTION ZLR AFTER TRANSITION IF SO DESIRED; IF CENTREX IS ADDED LATER, PROVIDE OPTION ZLU.
B. WHEN OPTION JF OR JH WAS FURNISHED, ADD OPTION ZLU.
C. IF OPTION JJ OR JI WAS NOT FURNISHED, ADD OPTION ZLV.
D. WHEN OPTION ED IS NOT FURNISHED, ADD OPTION ZLW.
E. IF OPTION RH IS NOT FURNISHED, ADD OPTION ZLX.
F. WHEN OPTION RD AND YW OR XL ARE FURNISHED, AND OPTION ZLS IS PROVIDED, ADD OPTION ZLY.
G. IF OPTION RD AND UU ARE FURNISHED AND OPTION ZLS IS PROVIDED, ADD OPTION ZLZ.
H. OPTION RD, WHEN FURNISHED AS IN G AND H, ABOVE, SHOULD NOT BE REMOVED UNTIL AFTER TRANSITION, IF SO DESIRED.
I. WHEN THE PCTV CKT IS FURNISHED, APP. FIG. 29 MUST BE PROVIDED OR NOTE 1248 II MUST BE IMPLEMENTED.
J. OPTION ZNH, IF PROVIDED, MUST BE REMOVED.
K. WHEN APP FIG. 144 IS PROVIDED, OPTION ZKB MUST BE ADDED.
L. OPTION UY, IF NOT ALREADY PROVIDED MUST BE ADDED, UNLESS IMPROVED CHANNEL TESTING IS PROVIDED (SEE NOTE 1180).
M. IF OPTION NQ IS NOT PROVIDED, OPTION WX, IF NOT ALREADY FURNISHED, MUST BE ADDED.
N. IF OPTIONS M AND ZKB ARE PROVIDED, OPTION ZIA MUST BE REPLACED BY ZIB.
O. IF APP FIG 56 IS PROVIDED, OPTION ZIJ MUST BE FURNISHED.
P. OPTION ZJS OR ZJT NEED NOT BE IMPLEMENTED.

1248. I WHEN AN OFFICE IS BEING MODIFIED FOR LAMA-C OPERATION AND
A) THE OFFICE IS ARRANGED WITH APP FIG A, THEN APP FIG 172 MUST BE ADDED.
B) THE OFFICE IS ARRANGED WITH APP FIG B, THEN OPTION ZNY MUST BE ADDED.

II. WHEN A PROGRAM CONTROLLED TRANSVERTER CKT IS FURNISHED ONLY FOR ANI OPERATION (NO CAMA) AND
A) THE OFFICE IS ARRANGED WITH APP FIG A, THEN APP FIGURES 170 AND 171 AND OPTIONS ZMV AND ~~ZKC~~ MUST BE ADDED AND APP FIG A MUST BE REMOVED.
B) THE OFFICE IS ARRANGED WITH APP FIG B, THEN OPTION ZMV MUST BE ADDED.

1249. IN AN OFFICE ARRANGED WITH IMPROVED CHANNEL TEST (APP FIGURES 148 AND 149), IF IT IS DESIRED TO ENABLE THE LIGHTING OF THE (TSK) LAMP AND PREVENTING THE ERRONEOUS LIGHTING OF THE (XTSK) LAMP, OPTION ZKT SHOULD BE REPLACED BY OPTION ZKU.

1250. WHEN AN EXISTING CAMA OFFICE IS BEING MODIFIED FOR NO. 5 ETS OPERATION, OPTION ZUA AND ZPO MUST BE FURNISHED, IF NOT ALREADY PROVIDED, AND IF OPTION ZVA IS FURNISHED, THEN OPTION ZKO MUST REPLACE ZKN.

1251. IN AN OFFICE ARRANGED WITH DIAL TRANSFER, IF IT IS DESIRED TO PREVENT A FALSE CONTINUITY CONDITION THRU THE TEST INCOMING TRUNK CKT. WHEN TESTING LOOP CONTINUITY WITH (NTC) KEY OPERATED ON DIAL TRANSFER TEST, OPTION ZKV MUST BE REPLACED BY OPTION ZKW, AND THE (COIA) KEY MUST BE OPERATED ON THIS TEST.

1252. OPTION SO MUST BE REPLACED BY OPTION SP IN OFFICE WHERE
A) MTFC CKT SD-27718-01 IS FURNISHED.
B) MTFC CKT SD-25805-01 IS ARRANGED WITH APP FIG 43.
PRIOR TO ISSUE 98B OPTION SP APPEARED IN NOTES 140 AND 1172.

1253. IN AN OFFICE ARRANGED WITH APP FIG 29 OR 171, IF IT IS DESIRED TO SHOW A TRANSVERTER SEIZURE INDICATION ON A SECOND TRIAL, APP FIG 175 AND ZOW OPTION MUST BE PROVIDED.

1254. IN AN OFFICE ARRANGED WITH AMA AND DOUBLE SIDED TROUBLE RECORD CARDS FALSE (FG-) AND (TF-) PUNCHES MAY OCCUR ON AMA SENDER TEST. OPTION ZKY MUST BE REPLACED BY OPTION ZKZ TO PREVENT THESE POSSIBLE FALSE PUNCHES.

1255. AUTOMATIC INTERCEPT

A. AIS USING LLP
(FORMERLY PART OF NOTES 1138, 1160, 1216, 1227)

WHEN AN OFFICE IS BEING MODIFIED FOR AUTOMATIC INTERCEPT USING LINE LINK PULSING THE FOLLOWING OPTIONS IF NOT ALREADY PROVIDED MUST BE FURNISHED

ZOZ,ZJD,ZVG
ND INSTEAD OF OR
ZJB INSTEAD OF ZJA
NF INSTEAD OF NB,NC AND NE
ZJF INSTEAD OF ZJK
NN INSTEAD OF NM
DE INSTEAD OF DN
SH INSTEAD OF SG
ZVD AND ZJG INSTEAD OF NH
ZJI INSTEAD OF ZJH
ZVF INSTEAD OF ZVE
BP INSTEAD OF BO AND ZYU
ZOY INSTEAD OF ZOX
ZJV INSTEAD OF ZJU
ZJL MUST BE REMOVED

IN ADDITION IF OFFICE IS NOT ARRANGED FOR TENS BLOCK SCREENING OPTION NG MUST BE FURNISHED.

(A&M ONLY) B. A&M AIS
(FORMERLY PART OF NOTE 1168, 1227)

WHEN AN OFFICE IS BEING MODIFIED FOR AUTOMATIC INTERCEPT USING DEDICATED SENDERS THE FOLLOWING OPTIONS IF NOT ALREADY PROVIDED MUST BE FURNISHED.

APP. FIG. 137,144,NA,ZV8,ZVG,ZJC
ZJE,ZOZ,ZJJ
SH INSTEAD OF SG
NB,NC & NE INSTEAD OF NF
ZVF INSTEAD OF ZVE
SF INSTEAD OF SE
UW INSTEAD OF TL
1Z INSTEAD OF TY
ZZK INSTEAD OF ZZJ
ZWF INSTEAD OF ZWE
ZVD & ZHG INSTEAD OF NH
ZQS INSTEAD OF ZJH
BP INSTEAD OF BO & ZYU
ZOY INSTEAD OF ZOX
ZJL MUST BE REMOVED

IF OS OPTION (NO. GRP. TENS BLOCK SCREENING) IS NOT PROVIDED, NG OPTION MUST REPLACE "OR" OPTION, IN ADDITION OPTION ZVC MUST BE REMOVED. WHEN THE OFFICE IS EXPANDED FROM 3 TO 4 SENDERS AND FROM 10 TO 20 AIS LINES, OPTION ZIE MUST BE REMOVED AND APP FIG 180 AND ZIF OPTION MUST BE ADDED.

1256. WHEN THE MARKER IS ARRANGED WITH EXPANDED PERMANENT SIGNAL ROUTING AND/OR IF IT IS DESIRED TO TEST THE 600ms OPEN FEATURE OF THE PERMANENT SIGNAL OR COMMON OVERFLOW TRUNK FROM THE TEST FRAME, APP FIG 176 WITH OPTIONS ZJM AND ZJN MUST BE PROVIDED. OPTIONS ZJO AND ZJP MUST ALSO BE PROVIDED. OPTIONS ZJC AND ZME, IF NOT ALREADY PROVIDED, MUST BE PROVIDED.

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MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D24

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-D24

CIRCUIT NOTES: (CONT)

1257. RATING OF LOW PRODUCTION EQUIPMENT CODES TO MFR DISC: APPARATUS FIGURES PERTAINING TO FREQUENCY SHIFT PULSING AND WIDEBAND BIT-STREAM ARE RATED MANUFACTURED DISCONTINUED DUE TO LOW PRODUCTION DEMAND. THOSE APPARATUS FIGURES WERE SHOWN IN THE 102 NOTE AS FOLLOWS:

62	OFFICE ARRANGED FOR FREQUENCY SHIFT PULSING			66		
93	WIDEBAND SERVICE AND/OR BIT-STREAM SERVICE	NOT PROVIDED			ZWM, ZWX	
		PROVIDED		134, 135	ZPM, ZWN, ZZA, BD	1 PER CKT
		REMOTE SWITCH UNIT ON WIDEBAND LINE LINK (WLL)		139		1 PER WRSU
		LINE VERIFICATION CUT-IN				1 PER WLL
		WIDEBAND LINE LINK CKT ARRANGED WITH 80 VERTICALS		136	ZWO	
	BIT-STREAM SWITCHING	NOT PROVIDED			ZPH, ZPL	
		PROVIDED			ZPI, ZPK	
		MORE THAN ONE BIT-STREAM LINE LINK ASSOCIATED WITH ONE AUDIO LINE LINK FR ARRANGED FOR BIT-STREAM; OR WHERE THE SAME WIDEBAND LINE CONTROL SERVES BOTH A WIDEBAND AND BIT-STREAM LINK			ZPJ	
		WIDEBAND CENTREX OPERATION PROVIDED	NO		ZOG	
			YES		ZOH	
		TRUNK TEST REGISTER CKT (WIDEBAND) PROVIDED (SEE NOTE 1192)	NO		ZHY	
75	DIRECT ACCESS TO 101 ESS PROVIDED	WIDEBAND PROVIDED	YES		ZWU	
			NO		ZWT	

1258. IN OFFICES ARRANGED WITH POST NO 5 ETS-LLP AND/OR LLP-AIS (PROVIDED AFTER THE OFFICE WAS ARRANGED WITH NO 5 ETS OPERATION) THE FOLLOWING OPTIONS ARE PROVIDED:

A. OT;
ZJX AND ZJV INSTEAD OF ZJU;
DE INSTEAD OF DN;
ZJB INSTEAD OF ZJA;
IF NT IS PROVIDED, AND NV;
APPLY NOTE 1243
OPTIONS OZ AND ZNJ SHOULD BE REMOVED

B. WHEN AIS USING LLP (LLP-AIS) IS PROVIDED, ADD, IN ADDITION TO ABOVE, IF NOT ALREADY FURNISHED:

NA,ZJD,ZVG;
NF INSTEAD OF NB,NC, AND NE;
ZJF INSTEAD OF ZJK;
ZJI INSTEAD OF ZJH;
ZVD,ZJG INSTEAD OF NH;
ZVF INSTEAD OF ZVE

C. IF APP FIG 38 IS NOT FURNISHED, PROVIDE OPTION ZJZ.

1259. WHEN AN OFFICE IS ARRANGED WITH THE CALL DATA TRANSMITTER FEATURE, THE FOLLOWING OPTIONS, IF NOT ALREADY PROVIDED, MUST BE FURNISHED:

ZJC;
ZUD INSTEAD OF ZUC;
NOTE 1120 MUST BE IMPLEMENTED

1260. WHEN THE MINI-ROTL INTF IS FURNISHED AND THE OFFICE IS ARRANGED WITH

A. APP FIG 27, THEN APP FIG 159 AND OPTION ZIG ARE FURNISHED AND OPTIONS ZOI AND ZOJ ARE REMOVED.

B. APP FIG 154, THEN OPTION ZIG IS FURNISHED.

C. WHEN APP FIG 27 OR 154 IS NOT PROVIDED, NOTE 1192 MUST BE IMPLEMENTED.

CIRCUIT NOTES: (CONT)

1261. NOTES APPLYING TO REUSE OF EQUIPMENT

A. FRAME ARRANGED WITH AUTOMATIC MONITOR AND REG AND SDR TEST CKT TO BE USED IN OFFICE WITH TEST SET TYPE TESTING:

STANDARD CIRCUIT NOTES OF THIS CIRCUIT SHOULD BE IMPLEMENTED.

B. FRAME ARRANGED WITH CENTREX CAN BE USED IN A NON-CENTREX OFFICE WITHOUT ADDITIONAL MODIFICATIONS. CARE SHOULD BE TAKEN THAT CENTREX TEST KEYS ARE NOT INADVERTENTLY OPERATED AND THAT CIRCUITRY WITH BACK CONTACTS ARE KEPT INTACT.

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EQUIPMENT NOTES:

201. EQUIPMENT INFORMATION, FRAME EQUIPMENT ED-26611-01

(A&M ONLY)

CKT FIG.	EQUIPMENT DWG	CKT FIG.	EQUIPMENT DWG
1,2,21,22,24, 31,N AND P	ED-26141-01	20,C AND D	ED-26144-01
		B	ED-26143-01
3 AND K	ED-26142-01	F	ED-26017-01
4 AND 5	ED-26136-01	H	ED-26504-01
6,7,23 AND M	ED-26137-01	25 & 26	ED-26625-01
	ED-26659-01	27 AND 29	ED-26620-01
8 AND 18	ED-26181-01		
9 AND 10	ED-26138-01		
11,12 AND 13	ED-26139-01		
14	ED-26140-01		
15 AND 32	ED-26135-01		
16 AND 17	ED-26202-01		

202. (MFR DISC) THE LEADS IN CAD 56 DIRECTED TO THE LINE INSUL TEST CONT CKT ARE TERMINATED ON THE MASTER TEST FRAMES CONTROL BAY TO FACILITATE CABLING BETWEEN THE MASTER TEST FRAME CONN FRAME AND THE LINE INSULATION TEST FRAME.

203. (MFR DISC) THE LEADS IN CAD 64 DIRECTED TO THE LINE INSUL TEST CONT CKT ARE TERMINATED ON THE MASTER TEST FRAME CONT BAY TO FACILITATE CABLING BETWEEN THE NO TEST CONN AND THE LINE INSULATION TEST FRAME.

204. (MFR DISC) THE LEADS SHOWN IN CAD 51,52,53,56,58,59,60,64,65,66,67, 68,70,75,79,81,85 AND 92 TO THE AUTO. PROG TRK TST FR DO NOT APPEAR ON THIS CKT. THESE LEADS ARE TERMINATED ON THE MTF (CONT) BAY TO FACILITATE CABLING BETWEEN THE MTF (CONT) BAY AND THE AUTO. PROG TRK TST BAY. THE LK LEAD IN CAD 59 TO THE AUTO. PROG TRK TST FR DOES NOT APPEAR ON THIS CKT. THIS LEAD IS TERMINATED ON THE MTF (CONT) BAY TO FACILITATE CABLING BETWEEN THE RELAY RACK BAY AND THE AUTO. PROG TRK TST BAY. THE LEADS SHOWN IN CADS 59,85 AND 90 TO THE AUTO. PROG TRK TST FR DO NOT APPEAR ON THIS CKT. THESE LEADS ARE TERMINATED ON THE MTF (CONT) BAY TO FACILITATE CABLING BETWEEN THE MARKER BAY (COMMON EQPT) AND THE AUTO. PROG TRK TST BAY.

205. (MFR DISC) THE LEADS SHOWN IN CAD 87 DO NOT APPEAR ON THIS CKT. THEY PROVIDE CROSS CONN FACILITIES BETWEEN THE LIT FR AND THE MT FR CONN WHEN THE AUTO. MON REG AND SPR TST CKT IS NOT FURNISHED.

206. ON (H) TS ON MASTER TEST FRAME CONTROL BAYS (SEE CAD 148):

(A) STRAP TERMINALS 70 AND 71 WHEN KS-5659, L1 RINGING MACHINE IS PROVIDED "TJ" OPTION.

(B) STRAP TERMINALS 72 AND 73 WHEN KS-5659, L1 RINGING MACHINE IS NOT PROVIDED "T1" OPTION.

207. PROVIDE STRAPS BETWEEN PUNCHINGS 11 AND 21, AND 12 AND 22 RESPECTIVELY WHEN FIG. Q OR OPTION ZPP IS REQUIRED, SEE CAD 133.

208. PROVIDE STRAPS BETWEEN PUNCHINGS 21 AND 31, 22 AND 32, 13 AND 23, 14 AND 24, 15 AND 25 RESPECTIVELY WHEN FIG. R IS REQUIRED, SEE CAD 133.

209. PRIOR TO ISSUE 26D, THE CABLING INFORMATION IN CAD 96, 97 AND 98 WERE SHOWN IN CAD 51-54,56,59-68,70,75,77-79, 81,82,85-89 AND 92-95.

EQUIPMENT NOTES: (CONT)

210. THE TRB1 LEADS FROM THE MTF (CONT) TO THE MTC, OMTC,AMTC, SAMTC AND PRTD ARE SHOWN ON THE MTF JK LP AND KEY CKT SD-25762-01.

211. CROSS CONNECTIONS FOR LEAD RR 10 TST CKT FOR REG & CAMA SENDERS AND LEAD TTA1 TO TRK TST CKT ARE NOT SHOWN SINCE THESE CIRCUITS ARE ALSO MTD ON THE MTF CONT BAYS AND THE LEADS ARE RUN IN THE FRAME LOCAL CABLE.

212. BEGINNING WITH ISSUE 480, ALL STANDARD CABLING INFORMATION IS TRANSFERRED TO NEW CADS NUMBERED 106 AND ABOVE ON THE BASIS OF A SEPARATE CAD FIGURE FOR EACH TERMINAL STRIP. CABLING INFORMATION RATED MFR DISC HAS BEEN RETAINED UNDER THE CAD FIGURE IN WHICH IT APPEARED PRIOR TO ISSUE 480.

213. CUT STRAP BETWEEN PUNCHINGS 16 AND 26 WHEN FIG. O IS REQUIRED OR WHEN FIG. R IS REQUIRED WITH E AND M SIGNALING. SEE CAD 133.

214. CUT STRAP BETWEEN PUNCHINGS 26 AND 36 WHEN FIG. P IS REQUIRED WITH LOOP SIGNALING. SEE CAD 133.

DRAWING ISSUE
73D
74A
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MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D26

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 65

SD-25800-01-D26

INFORMATION NOTES:

301. (A) CROSS CONNECT LINE NUMBERS OF THE 2-WIRE TERMINATING TEST LINE ASSOCIATED WITH THE TRUNK TEST CKT, THE 2-WIRE INCOMING TRUNK TEST LINE ASSIGNED TO THE AREA, AND THE 2-WIRE BUSY LINE ASSIGNED TO THE AREA IN ACCORDANCE WITH THE FOLLOWING TABLE. PUNCHINGS FOR THESE NUMBERS ARE ASSOCIATED WITH THE (TTLI), (TTL2), AND (BB) RELAYS, RESPECTIVELY. PRIOR TO ISSUE 43D PUNCHINGS FOR THESE NUMBERS WERE DESIGNATED PER OPTION RM.

(B) IN OFFICES ARRANGED FOR 4-WIRE OPERATION, CROSS CONNECT LINE NUMBERS OF THE 4-WIRE TERMINATING TEST LINE ASSOCIATED WITH THE TRUNK TEST CKT, THE 4-WIRE INCOMING TRUNK TEST LINE ASSIGNED TO THE AREA, AND THE 4-WIRE BUSY LINE ASSIGNED TO THE AREA IN ACCORDANCE WITH THE FOLLOWING TABLE. PUNCHINGS FOR THESE NUMBERS ARE ASSOCIATED WITH THE (TTL3),(TTL4), AND (BBI) RELAYS RESPECTIVELY.

(C) IN OFFICES ARRANGED FOR CENTREX OPERATION, CROSS CONNECT LINE NUMBERS OF THE CENTREX TERMINATING TEST LINE (APPEARANCE A) ASSOCIATED WITH THE TRUNK TEST CKT. THE CENTREX INCOMING TRUNK TEST LINE ASSIGNED TO THE AREA, THE CENTREX FAR-END TEST LISTED DIRECTORY NUMBER ASSIGNED TO THE AREA, AND THE CENTREX LOCAL TEST LISTED DIRECTORY NUMBER IN ACCORDANCE WITH THE FOLLOWING TABLE. PUNCHINGS FOR THESE NUMBERS ARE ASSOCIATED WITH THE (TTL5), (TTL6), (TTL7), AND (TTL8) RELAYS RESPECTIVELY.

(D) IN OFFICES ARRANGED FOR DIAL TRANSFER, CROSS CONNECT LINE NUMBERS ASSOC WITH THE CENTREX TERMINATING TEST LINE NO. 1 APPEARANCES B & C IN ACCORDANCE WITH THE FOLLOWING TABLE. PUNCHINGS FOR THESE NUMBERS ARE ASSOC WITH THE (TL5B) & (TL5C) RELAYS, RESPECTIVELY. THESE APPEARANCES (AND APPEARANCE A) MUST BE ASSIGNED CLASSES OF SERVICE WHICH USE ALL POSSIBLE 2 OUT 5 LEADS. FOR EXAMPLE: APPEARANCE A,11 APPEARANCE B, 66; APPEARANCE C, 77. IN ADDITION, CROSS CONNECT LINE NUMBER ASSOCIATED WITH CENTREX TERMINATING TEST LINE NO. 2 IN ACCORDANCE WITH THE FOLLOWING TABLE. PUNCHINGS FOR THIS NUMBER ARE ASSOCIATED WITH THE (CTL2) RELAY.

(E) IN OFFICES ARRANGED FOR A THREE DIGIT INTERCOMMUNICATION SYSTEM, CROSS CONNECT LINE NUMBERS ASSOCIATED WITH THE TERMINATING TEST LINE ASSIGNED TO THAT REALM IN ACCORDANCE WITH THE FOLLOWING TABLE. PUNCHINGS FOR THESE NUMBERS ARE ASSOCIATED WITH THE (TTL10) RELAY.

(F) IN OFFICES ARRANGED FOR WIDEBAND (SPL) SWITCHING, CROSS CONNECT LINE NUMBERS ASSOCIATED WITH THE WIDEBAND TERM TEST LINE IN ACCORDANCE WITH THE FOLLOWING TABLE. THIS TEST LINE MUST BE LOCATED ON THE SAME LINE LINK FRAME AS WIDEBAND CUSTOMERS LINES. PUNCHINGS FOR THESE NUMBERS ARE ASSOCIATED WITH THE (TTL10) RELAY.

(G) IN OFFICES ARRANGED FOR WIDEBAND SWITCHING (STANDARD), CROSS CONNECT LINE NUMBERS OF THE STANDARD (2W) TERMINATING TEST LINE (WHICH IS USED FOR WIDEBAND) ASSOCIATED WITH THE TRUNK TEST CKT AND THE WIDEBAND INCOMING TRUNK TEST LINE IN ACCORDANCE WITH THE FOLLOWING TABLE. THESE TEST LINES MUST BE LOCATED ON THE SAME LINE LINK FRAME AND VERTICAL FILE AS WIDEBAND CUSTOMERS LINES. PUNCHINGS FOR THESE NUMBERS ARE ASSOCIATED WITH THE (TTLI) AND (TTL12) RELAYS, RESPECTIVELY. A SECOND WIDEBAND TERMINATING TEST LINE IS ASSOCIATED WITH THE (TTL13) RELAY.

CROSS CONNECT PUNCHINGS IN COLUMN A TO PUNCHINGS IN COLUMN B

DIGIT OF NUMBER	COLUMN A																			COLUMN B									
	TERM. TEST LINE ASSOC WITH THE TRK TEST CKT									INC TRUNK TEST LINE ASGN TO THE AREA						BUSY LINE ASGN TO THE AREA		CENTREX TEST LISTED DIRECTORY NO.		DDC TERM. TEST LINE	WIDEBAND TERM. TEST LINE (SPL)		PUNCHINGS WHERE NUMERAL OF DIGIT IS									
	2W	4W	CENTREX NO. 1 APP A	CENTREX NO. 1 APP B	CENTREX NO. 1 APP C	CENTREX NO. 2	WIDEBAND (STD)			2W	4W	CENTREX	WIDEBAND (STD)			2W	4W	FAR-END ASGN TO THE AREA	LOCAL				0	1	2	3	4	5	6	7	8	9
ASSOCIATED RELAY	TTL 1	TTL 3	TTL 5	TL5B	TL5C	CTL2	TTL 13			TTL 2	TTL 4	TTL6	TTL12			BB	BBI	TTL7	TTL8	TTL9	TTL10												
THOUSANDS (SEE NOTE 1)	THA1	THA4	THA7	THA11	THA12	THA15	THA18			THA2	THA5	THA8	THA17			THA3	THA6	THA9	THA10	THA13	THA14		TH4	TH0	TH0	TH1	TH0	TH1	TH2	TH0	TH1	TH2
	THB1	THB4	THB7	THB11	THB12	THB15	THB18			THB2	THB5	THB8	THB17			THB3	THB6	THB9	THB10	THB13	THB14		TH7	TH1	TH2	TH2	TH4	TH4	TH4	TH7	TH7	TH7
HUNDREDS	HNA1	HNA4	HNA7	HNA11	HNA12	HNA15	HNA18			HNA2	HNA5	HNA8	HNA17			HNA3	HNA6	HNA9	HNA10	HNA13	HNA14		HN4	HN0	HN0	HN1	HN0	HN1	HN2	HN0	HN1	HN2
	HNB1	HNB4	HNB7	HNB11	HNB12	HNB15	HNB18			HNB2	HNB5	HNB8	HNB17			HNB3	HNB6	HNB9	HN510	HNB13	HNB14		HN7	HN1	HN2	HN2	HN4	HN4	HN4	HN7	HN7	HN7
TENS	TA1	TA4	TA7	TA11	TA12	TA15	TA18			TA2	TA5	TA8	TA17			TA3	TA6	T89	TA10	TA13	TA14		T4	T0	T0	T1	T0	T1	T2	T0	T1	T2
	TB1	TB4	TB7	TB11	TB12	TB15	TB18			TB2	TB5	TB8	TB17			TB3	TB6	TB9	TB10	TB13	TB14		T7	T1	T2	T2	T4	T4	T4	T7	T7	T7
UNITS	UA1	UA4	UA7	UA11	UA12	UA15	UA18			UA2	UA5	UA8	UA17			UA3	UA6	UA9	UA10	UA13	UA14		U4	U0	U0	U1	U0	U1	U2	U0	U1	U2
	UB1	UB4	UB7	UB11	UB12	UB15	UB18			UB2	UB5	UB8	UB17			UB3	UB6	UB9	UB10	UB13	UB14		U7	U1	U2	U2	U4	U4	U4	U7	U7	U7

NOTES:

(1) DO NOT USE 0,1,8 OR 9 AS THOUSANDS DIGIT FOR CENTREX LINES.

DRAWING ISSUE: 80D, 81A, 82D

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INFORMATION NOTES: (CONT)

302. (A) CROSS CONNECT EQUIPMENT LOCATION OF 2-WIRE AND 4-WIRE (IF PROVIDED) ORIGINATING TEST LINES, THREE DIGIT INTERCOMMUNICATION TEST LINES, WIDEBAND (SPL) TEST LINES, THE TRANSFER LINE LINK APPEARANCE OF THE TEST INCOMING TRUNK, AND WIDEBAND (STD) REMOTE SWITCH UNIT ORIGINATING TEST LINES IN ACCORDANCE WITH THE FOLLOWING TABLE. PRIOR TO ISSUE 43D PUNCHINGS FOR 2-WIRE LINE ONLY WERE SHOWN AND PUNCHINGS FTA, THGTA, TVGTA, TVGTA, VFA & TVFTA, (OPTION RN) WERE SHOWN AS FT, THGT, TVGT, VF & VTFT, (OPTION RM) RESPECTIVELY. THE ORIGINATING TEST LINE LOCATION AND THE COMBINED ORIGINATING AND TERM. TEST LINE LOCATION SHOULD BE CROSS CONNECTED IN THE AMA TRANSLATOR TO THE SAME BILLING NUMBER. IN OFFICES ARRANGED FOR UNIGAUGE, THE 2-WIRE ORIGINATING TEST LINE MUST BE ASSIGNED IN A HORIZONTAL GROUP EQUIPPED WITH RANGE EXTENDERS AND CROSS CONNECTED AS A NON-LONG LOOP LINE.

(B) WHEN TESTING OUTGOING TRUNKS EQUIPPED WITH MESSAGE TIMERS, THE CLASS OF SERVICE IN THE MARKER ASSIGNED TO THE ORIGINATING TEST LINE SHOULD BE CROSS CONNECTED SO THAT THE MARKER SCREENING RESULTS IN FLAT RATE TREATMENT (MARKER NCNC RELAY).

(C) WIDEBAND (STD) ORIGINATING TEST LINE: SEE NOTE 323.

(D) AUTOMATIC CALL DISTRIBUTION (ACD)

CROSS CONNECT EQUIPMENT LOCATION OF THE REGULAR ACD ORIGINATING TEST LINE (OTL2 RELAY) IN ACCORDANCE WITH THE TABLE.

WHEN CALL TRANSFER IS PROVIDED, ALSO CROSS CONNECT THE TRANSFER ORIGINATING TEST LINE (OTL1 RELAY) AND THE ORIGINATING TEST LINE APPEARANCE SIMULATING A DIGIT REGISTER (RELAYS OTL2,ACD3).

THE CROSS CONNECTIONS FOR (OTL2) AND FOR (OTL2,ACD3) MUST BE NUMERICALLY THE SAME LINE LINK APPEARANCE INFORMATION.

(MARKER, NCNC RELAY) CROSS CONNECT PUNCHINGS IN COLUMN A TO PUNCHINGS IN COLUMN B

COLUMN A														COLUMN B												
	2-WIRE LINE		4-WIRE LINE		TLL APP OF TEST INC TRK	3DC ORIG TEST LINE	ACD		WIDEBAND ORIG TEST LINES (SPL)			ACD	WIDEBAND (STD)		PUNCHINGS WHERE NUMERAL DIGIT IS												
DIGIT OF EQPT LOC	ORIG. TEST LINE	COMB. ORIG & TERM. TEST LINE	ORIG TEST LINE	COMB. TEST LINE			ORIG TEST LINE (REG)	ORIG TEST LINE (TRANSFER)	COMB. ORIG & TERM. TEST LINE	ORIG TEST LINE		ORIG. TEST LINE APPEARANCE SIMULATING DIGIT REGISTER	REMOTE SWITCH UNIT ORIGINATING TEST LINE		0	1	2	3	4	5	6	7	8	9	10	11	12	13
ASSOCIATED RELAY	OTL 1,2	OTL 5	OTL 3,4	OTL 6	OTL 7	OTL 8,9	OTL2	OTL1	OTL 10	OTL 11		OTL2,ACD3	WR00-39													
LINE LINK FR TENS (UK OPT) MFR DISC	FTA	FTA2													FT0	FT1	FT2	FT3								
LINE LINK FR TENS (UL OPT) STD	FTA FTB	FTA2 FTB2	FTA1 FTB1	FTA3 FTB3	FTA4 FTB4	FTA5 FTB5			FTA6 FTB6	FTA7 FTB7					FT0 FT3	FT0 FT1	FT0 FT2	FT1 FT2	FT1 FT3	FT2 FT3						
LINE LINK FR UNITS	FUA FUB	FUA2 FUB2	FUA1 FUB1	FUA3 FUB3	FUA4 FUB4	FUA5 FUB5	FUA FUB		FUA6 FUB6	FUA7 FUB7		FUA FUB			FU4 FU7	FU0 FU1	FU0 FU2	FU1 FU2	FU0 FU4	FU1 FU4	FU2 FU4	FU0 FU7	FU1 FU7	FU2 FU7				
VERTICAL GROUP	VGA VGB	VGA2 VGB2	VGA1 VGB1	VGA3 VGB3		VGA5 VGB5			VGA6 VGB6	VGA7 VGB7			VGR(00-39)A VGR(00-39)B		VG4 VG7	VG0 VG1	VG0 VG2	VG1 VG2	VG0 VG4	VG1 VG4	VG2 VG4	VG0 VG7	VG1 VG7	VG2 VG7	VG0 VG10	VG1 VG10	VG2 VG10	VG7 VG10
	TVGTA		TVGTA1		TVGTA4	TVGTA5	TVGTA	VGA				TVGTA1			TVGT0 VGT0	TVGT1 VGT1	TVGT2 VGT2	TVGT3 VGT3	TVGT4 VGT4	TVGT5 VGT5	TVGT6 VGT6	TVGT7 VGT7	TVGT8 VGT8	TVGT9 VGT9	TVGT10 VGT10	TVGT11 VGT11	TVGT12 VGT12	TVGT13 VGT13
HORIZONTAL GROUP	HGA HGB	HGA2 HGB2	HGA1 HGB1	HGA3 HGB3		HGA5 HGB5			HGA6 HGB6	HGA7 HGB7			HGR(00-39)A HGR(00-39)B		HG4 HG7	HG0 HG1	HG0 HG2	HG1 HG2	HG0 HG4	HG1 HG4	HG2 HG4	HG0 HG7	HG1 HG7	HG2 HG7				
	THGTA		THGTA1		THGTA4	THGTA5	THGTA	HGA				THGTA1			THGT0 HGT0	THGT1 HGT1	THGT2 HGT2	THGT3 HGT3	THGT4 HGT4	THGT5 HGT5	THGT6 HGT6	THGT7 HGT7	THGT8 HGT8	THGT9 HGT9				
VERTICAL FILE	VFA	VFA2	VFA1	VFA3		VFA5			VFA6	VFA7			VFR(00-39)		VF0	VF1	VF2	VF3	VF4									
	TVFTA		TVFTA1		TVFTA4	TVFTA5	TVFTA	VFA							TVFT0	TVFT1	TVFT2	TVFT3	TVFT4									
												TVFTA1			VFT0	VFT1	VFT2	VFT3	VFT4									

DRAWING ISSUE
80D
82D
83A

ISSUE 97A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D28

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D28

INFORMATION NOTES: (CONT)

303. CROSS CONNECT 2-WIRE CODE ASSIGNED TO AMA OR ANI LINE VERIFICATION AND 4-WIRE (IF PROVIDED) CODE ASSIGNED TO AMA LINE VERIFICATION IN ACCORDANCE WITH THE FOLLOWING TABLE.

CROSS CONNECT PUNCHINGS IN COLUMN A TO PUNCHINGS IN COLUMN B															
COLUMN A					COLUMN B										
DIGIT OF CODE	PUNCHING 2-WIRE CODES: ANI (NO LAMA-ANI) OR LAMA	PUNCHING 2-WIRE CODES: ANI (LAMA-ANI PROV)	PUNCHING 4-WIRE CODE		PUNCHINGS WHERE NUMERAL OF DIGITS IS 0	1	2	3	4	5	6	7	8	9
ASSOC RELAY	VER3	VERA	VER10											
A	AA AB	AA2 AB2	AA1 AB1		A4 A7	A0 A1	A0 A2	A1 A2	A0 A4	A1 A4	A2 A4	A0 A7	A1 A7	A2 A7
B	BA BB	BA2 BB2	BA1 BB1		B4 B7	B0 B1	B0 B2	B1 B2	B0 B4	B1 B4	B2 B4	B0 B7	B1 B7	B2 B7
C	CA CB	CA2 CB2	CA1 CB1		C4 C7	C0 C1	C0 C2	C1 C2	C0 C4	C1 C4	C2 C4	C0 C7	C1 C7	C2 C7

304. CROSS CONNECT IN ACCORDANCE WITH TABLE THE NUMBER OF THE TRUNK LINK FRAMES ON WHICH THE MASTER TEST CONTROL CIRCUIT HAS ITS APPEARANCES AS AN INCOMING TRUNK. SEE SHEET 844.

CROSS CONNECT PUNCHINGS IN COLUMN TO PUNCHINGS IN COLUMN B															
COLUMN A					COLUMN B										
DIGIT OF TRK LINK FR NO.	2-WIRE	4-WIRE	3DC	CALL WTG (SEE NOTE 324)	PUNCHINGS WHERE NUMERAL OF DIGIT IS 0	1	2	3	4	5	6	7	8	9
ASSOCIATED RELAY	KLT	4WG	3DC KEY	CWTL										
FRAME GRD	FG	FGA1	FGA2	FGA3	FG0	FG1	FG2							
TRUNK LINK FRAME	TFA TFB	TFA1 TFB1	TFA2 TFB2	TFA3 TFB3	TF4 TF7	TF0 TF1	TF0 TF2	TF1 TF2	TF0 TF4	TF1 TF4	TF2 TF4	TF0 TF7	TF1 TF7	TF2 TF7

305. (MFR DISC) IN FIG. C,D, OR 57 CROSS CONNECT PUNCHINGS ASSOCIATED WITH TRANSLATOR OFFICE DESIG (OFFICE DESIG (OFF 0 TO OFF 29) TO PUNCHINGS ASSOCIATED WITH CORRESPONDING OFFICE DESIG IN NUMBER GRP (OAP, OAT, OAE, OBP, OBT, AND OBE).

306. ALL CURRENT FLOW TESTS ARE DESIGNED TO MEET VOLTAGE VARIATIONS OF 48.5-50V AND 133-135V. ALL LOCAL CIRCUIT APPARATUS WILL OPERATE ON 45-50V AND 125-135V.

DRAWING ISSUE: 800, 82D

ISSUE 88D

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D29

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET 6S

SD-25800-01-D29

INFORMATION NOTES: (CONT)

307. (A) IN OFFICES ARRANGED FOR TANDEM OPERATION, A 2-WIRE AND A 4-WIRE (IF PROVIDED) TRUNK NUMBER SHALL BE ASSIGNED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. THESE TRUNK NUMBERS SHALL BE CROSS CONNECTED IN ALL 2-WIRE AND 4-WIRE RESPECTIVE NUMBER GROUPS USED FOR TRUNK NUMBERS TO RETURN THE LOCATIONS OF THE 2-WIRE AND 4-WIRE ORIGINATING TEST LINES.

(B) IN OFFICES ARRANGED FOR INTERTOLL OPERATION, A 2-WIRE AND A 4-WIRE (IF PROVIDED) TRUNK NUMBER SHALL BE ASSIGNED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. THESE TRUNK NUMBERS SHALL BE CROSS CONNECTED IN ALL 2-WIRE RESPECTIVE NUMBER GROUPS USED FOR TRUNK NUMBERS TO RETURN THE LOCATIONS OF THE 2-WIRE AND 4-WIRE TOLL ORIGINATING TEST LINES.

(C) IN OFFICES ARRANGED FOR CENTREX SERVICE, A TRUNK NUMBER SHALL BE ASSIGNED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. THIS TRUNK NUMBER SHALL BE CROSS CONNECTED IN ALL NUMBER GROUPS USED FOR TRUNK NUMBERS OF INCOMING AND INTRA OFFICE TRUNKS ARRANGED FOR CENTREX TO RETURN THE LOCATION OF THE CENTREX TEST INCOMING TRUNK.

(D) IN OFFICES ARRANGED FOR INTERTOLL OPERATION, A SECOND 2-WIRE TOLL ORIGINATING TEST LINE MAY BE PROVIDED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. A TRUNK NUMBER SHALL BE ASSIGNED AND CROSS CONNECTED IN ALL 2-WIRE RESPECTIVE NUMBER GROUPS USED FOR TRUNK NUMBERS TO RETURN THE LOCATION OF THE SECOND 2-WIRE TOLL ORIGINATING TEST LINE.

(E) IN OFFICES ARRANGED FOR TANDEM OPERATION, A SECOND 2-WIRE TRUNK NUMBER MAY BE PROVIDED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. THIS TRUNK NUMBER SHALL BE ASSIGNED AND CROSS CONNECTED IN ALL 2-WIRE NUMBER GROUPS USED FOR TRUNK NUMBERS TO RETURN THE LOCATION OF THE 2-WIRE COMBINED ORIGINATING AND TERMINATING TEST LINE.

(F) TANDEM AND TOLL 2-WIRE TRUNK NUMBERS SHALL HAVE THE SAME HUNDREDS AND TENS DIGITS BUT DIFFERENT UNITS DIGITS. TOLL AND TANDEM 4-WIRE (IF PROVIDED) TRUNK NUMBERS SHALL HAVE THE SAME HUNDREDS AND TENS DIGITS (MAY BE DIFFERENT FROM 2-WIRE) BUT DIFFERENT UNITS DIGITS (MAY BE SAME AS 2-WIRE).

(G) IN OFFICES ARRANGED FOR WIDEBAND (STD) AND INTERTOLL OPERATION, A TRUNK NUMBER SHALL BE ASSIGNED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. THIS TRUNK NUMBER SHALL BE CROSS CONNECTED IN ALL NUMBER GROUPS USED FOR TRUNK NUMBERS TO RETURN THE LOCATION OF THE ORIGINATING TEST LINE WHICH IS ALSO USED FOR THE WIDEBAND (STD) ORIGINATING TEST LINE AND WIDEBAND (STD) TOLL ORIGINATING TEST LINE.

(H) IF AN OFFICE IS ARRANGED FOR OVER 2000 TRUNK NUMBERS, ANY TRUNK NUMBERS ASSIGNED TO CAMA AND TANDEM AMA TRUNKS MUST BE RESTRICTED TO THE FIRST 2000 NUMBERS.

(I) IN AN OFFICE ARRANGED FOR BIT-STREAM SWITCHING, TWO TRUNK NUMBERS SHALL BE ASSIGNED FOR USE BY THE MASTER TEST CONTROL CIRCUIT. ONE TRUNK NUMBER (ASSOCIATED WITH RELAY KTN8) SHALL BE CROSS CONNECTED IN ALL NUMBER GROUPS USED FOR TRUNK NUMBERS TO RETURN THE LINE LOCATION OF THE BIT-STREAM TANDEM ORIGINATING TEST LINE. THE SECOND TRUNK NUMBER (ASSOCIATED WITH RELAY KTN8A) SHALL BE CROSS CONNECTED IN THE MASTER TEST CONTROL TO GIVE THE MARKER A UNIQUE NUMBER. THE LINE LINK INFORMATION FOR THIS TRUNK NUMBER SHALL NOT BE CROSS CONNECTED IN THE NUMBER GROUP. THIS LINE INFORMATION SHALL BE SENT TO THE MARKER FROM THE MASTER TEST CONTROL VIA THE FTT-, FUT-, VGT-, HGT-, AND VFT- LEADS TO PRIME THE MARKER WITH THE DESIRED NO TEST VERTICAL LOCATION USED AS ANOTHER TANDEM ORIGINATING TEST LINE ON ALL LINE LINK FRAMES ARRANGED FOR BIT-STREAM SERVICE. ALL OTHER CROSS CONNECTIONS ASSOCIATED WITH RELAY KTN8A SHALL BE WIRED IN THE NUMBER GROUP TO RETURN OTHER PERTINENT TRUNK NUMBER INFORMATION.

THE ABOVE TRUNK NUMBERS SHALL BE CROSS CONNECTED IN THE MASTER TEST CONTROL CIRCUIT IN ACCORDANCE WITH THE FOLLOWING TABLE:

CROSS CONNECT PUNCHINGS IN COLUMN A TO PUNCHINGS IN COLUMN B

DIGIT OF NUMBER	COLUMN A PUNCHING											COLUMN B PUNCHINGS WHERE NUMERAL OF DIGIT IS									
	2-WIRE ORIG TEST LINE		2-WIRE TOLL ORIG TEST LINE		4-WIRE ORIG TEST LINE	4-WIRE TOLL ORIG TEST LINE		CENTREX TEST INCOMING TRUNK	WIDEBAND (STD) TOLL ORIG TEST LINE	BIT-STREAM		0	1	2	3	4	5	6	7	8	9
	1ST	2ND	1ST	2ND		1ST	2ND			1ST	2ND										
ASSOCIATED RELAY	KTN 2	KTN 6	KTN 2	KTN 6	KTN3	KTN 3	KTN 5	KTN4	KTN7	KTN8	KTN8A										
THOUSANDS	THA	THJ	THA	THJ	THAI	THAI	THG	THE	THN	THO	THOI	THTO	THTI	THT2	THT3						
HUNDREDS	HTA HTB	HTJ HTK	HTA HTB	HTJ HTK	HTAI HTBI	HTAI HTBI	HTG HTH	HTE HTF	HTN HTO	HTP HTR	HTPI HTRI	HT4 HT7	HTO HTI	HTO HT2	HTI HT2	HTO HT4	HTI HT4	HT2 HT4	HTO HT7	HTI HT7	HT2 HT7
TENS	TTA TTB	TTJ TTK	TTA TTB	TTJ TTK	TTAI TTBI	TTAI TTBI	TTG TTH	TTE TTF	TTN TTO	TTP TTR	TTPI TTRI	TT4 TT7	TTO TTI	TTO TT2	TTI TT2	TTO TT4	TTI TT4	TT2 TT4	TTO TT7	TTI TT7	TT2 TT7
UNITS	UTA UTB	UTL UTM	UTC UTD	UTJ UTK	UTAI UTBI	UTCI UTDI	UTG UTH	UTE UTF	UTN UTO	UTP UTR	UTPI UTRI	UT4 UT7	UTO UTI	UTO UT2	UTI UT2	UTO UT4	UTI UT4	UT2 UT4	UTO UT7	UTI UT7	UT2 UT7

DRAWING ISSUE: 800 CB, 820 CB, 83A CB

INFORMATION NOTES:(CONT)

308. A TEST APPEARANCE FOR EACH GROUP OF SENDERS USED FOR PULSE CONVERSION SHALL BE PROVIDED ON THE SENDER LINK ASSOC WITH THE TRUNK LINK FRAME ON WHICH THE MASTER TEST CONTROL CIRCUIT HAS ITS APPEARANCE AS AN INCOMING TRUNK.

309. RELAYS DESIGNATED 16 OHMS WERE 14 OHMS PRIOR TO THE SECOND QUARTER OF 1949.

310. WHEN FIG. D IS PROVIDED, THE OFF-KEY MUST BE OPERATED DURING TEST TO THE PARTICULAR OFFICE DESIGNATION INVOLVED, SINCE MORE THAN ONE DIRECTORY OFFICE DESIGNATION MAY BE ASSOCIATED WITH THE NUMBERS OF A PHYSICAL OR A THEORETICAL OFFICE.

311. CROSS CONNECT IN ACCORDANCE WITH TABLE THE NUMBER OF THE TRUNK LINK FRAME ASSOCIATED WITH THE MASTER TEST CONTROL'S TEST VERTICAL OF THE OUT. SENDER LINK FOR THE DESIRED CAMA SENDER GROUP. SEE SHEET 844.

CROSS CONNECT PUNCHINGS IN COLUMN A TO PUNCHINGS IN COLUMN B											
COLUMN A		COLUMN B									
DIGIT OF TRK LINK FR NO.	PUNCHINGS	PUNCHINGS WHERE NUMERAL OF DIGIT IS									
		0	1	2	3	4	5	6	7	8	9
TRK LINK FR TENS	TLTO-3	FG0	FG1	FG2							
TRK LINK FR UNITS	TUA0-3 TUB0-3	TF4 TF7	TF0 TF1	TF0 TF2	TF1 TF2	TF0 TF4	TF1 TF4	TF2 TF4	TF0 TF7	TF1 TF7	TF2 TF7

312. IN OFFICES ARRANGED FOR MORE THAN 30 CLASSES OF SERVICE, TERMINAL CG, FIG. 37 IS TO BE CONNECTED TO TERMINAL 60. WHERE FIG. 37 IS PROVIDED AND THE OFFICE IS ARRANGED FOR A MAXIMUM OF 30 CLASSES OF SERVICE, TERMINAL CG IS TO BE CONNECTED TO TERMINAL 30.

313. CROSS CONNECT A SLEEVE TEST LEAD FOR THE CENTREX TERMINATING TEST LINE. (PHASE I ONLY)

314. WHERE MORE THAN ONE CONTACT NUMBER IS LISTED ON A NON-OPTIONAL KEY CONTACT IN THE FS-, THE FIRST LISTED NUMBER CORRESPONDS TO THE CONTACT ON THE KEY AND THE SECOND CORRESPONDS TO THE CONTACT ON THE ASSOCIATED KEY UNIT.

315. TWO EXCLUSIVE CLASSES OF SERVICE MUST BE ASSIGNED FOR TESTING THE CENTREX FEATURES OF AN OFFICE. THE FIRST MUST BE ASSIGNED TO THE CENTREX TERMINATING TEST LINE AND THE CENTREX LOCAL TEST LISTED DIRECTORY NUMBER. THIS CLASS OF SERVICE SHOULD ROUTE A TRANSFERRED OR LISTED DIRECTORY NUMBER CALL TO THE TEST ATTENDANT TRUNK CIRCUIT. THE SECOND MUST BE ASSIGNED TO THE CENTREX INCOMING TRUNK TEST LINE AND THE CENTREX FAR-END TEST LISTED DIRECTORY NUMBER FOR USE ON TESTS FROM THE DISTANT OFFICE OF INCOMING TRUNKS IN THE LOCAL OFFICE. THIS CLASS OF SERVICE SHOULD ROUTE A TRANSFERRED OR LISTED DIRECTORY NUMBER CALL TO THE TRUNK LINK APPEARANCE (TONE AND FLASH PORTION) OF THE CENTREX INCOMING TRUNK TEST LINE.

316. CROSS CONNECT PREFERENCE AND LOCKOUT TEST CONDITIONS FOR WIRE SPRING AND U-TYPE DIAL TONE MARKERS IN ACCORDANCE WITH THE FOLLOWING TABLE:

CROSS CONNECT PUNCHINGS IN COLUMN A TO PUNCHINGS IN COLUMN B										
COLUMN A		COLUMN B								
FOR VERT. GROUP	PUNCHINGS	PUNCHING WHERE MAX NUMBER OF VERTICAL GROUPS IN OFFICE IS								
		4	5	6	7	8	9	10	11	12
1	WS1	VGT0	VGT0	VGT0	VGT6	VGT7	VGT7	VGT7	VGT7	VGT7
2	FS2	-	-	VGT5	VGT5	VGT5	VGT5	VGT5		
3	WS3	VGT1	VGT1	VGT5	VGT5	VGT5	VGT5	VGT8	VGT8	VGT8
4	WS4	-	VGT3	VGT3	VGT3	VGT3	VGT3	VGT3	VGT10	VGT10
5	FS5	-	-	VGT2	VGT2	VGT2	VGT2	VGT2	VGT10	VGT11
	WS5	-	-	VGT1	VGT1	VGT1	VGT1	VGT1	VGT1	VGT11

317. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS, VALUES PRECEDED BY THE SYMBOL +(PLUS) OR -(MINUS) ARE IN VOLTS.

318. THE FA(1) AND FA (2) LEADS ARE ASSOCIATED WITH TWO 2-WIRE AND TWO 4-WIRE TRUNK LINK FRAME (TLF) APPEARANCES AS FOLLOWS:
THE FA(1) AND FA(2) LEADS TO THE 4-WIRE TLF ARE ASSOCIATED WITH THE TRUNK TEST CIRCUITS 4-WIRE TEST TRUNK APPEARANCES NO. 1 AND NO. 2, RESPECTIVELY.
THE FA(1) LEAD TO THE 2-WIRE TLF IS ASSOCIATED WITH THE LINE TEST TRUNK APPEARANCE IN THE MASTER TEST CONTROL CKT.
THE FA(2) LEAD TO THE 2-WIRE TLF IS ASSOCIATED WITH THE SIMULATED 2-WIRE TRUNK IN THE TRUNK TEST CIRCUIT.
THE FA(3) LEAD IS ASSOCIATED WITH THE 3DC TLF APPEARANCE.
THE FA(4) LEAD IS ASSOCIATED WITH THE TLF APPEARANCE OF THE TRUNK TEST CKT USED FOR TESTING THE CALL WAITING FEATURE.

319. THREE-DIGIT INTERCOMMUNICATION LINE LINK APPEARANCE (3DC ORIGINATING TEST LINE) AND TRUNK LINK APPEARANCE (3DC LINE TEST TRUNK APPEARANCE) MUST APPEAR ON FRAMES DEDICATED TO THREE-DIGIT INTERCOMMUNICATION TRAFFIC.

INFORMATION NOTES: (CONT)

320. CROSS CONNECT TANA,B; TOLA,B; PCDA,B; PCDIA,B; AND PCRA,B TO PC, TAN, OR TOL AS REQUIRED TO RELATE ASSOCIATED INCOMING CLASSES IN TRUNK CLASSES A OR B TO PULSE CONVERSION (PC), TANDEM (TAN) OR INTERTOLL (TOL) (SEE NOTE 329).

321. PREPARATION FOR TESTING 293C TYPE DRY REED RELAYS: CONNECT DIRECT BATTERY TO TERMINAL L2 OF TEST SET. PLACE L KEY IN NEUTRAL POSITION. CONNECT TEST SET AS SHOWN BY TABLE BELOW. FOR EACH SET OF CONDITIONS, THE TEST SET SIGNAL LAMP SHOULD LIGHT WHEN THE TEST SET OPERATE KEY IS DEPRESSED AND THE SIGNAL LAMP SHOULD EXTINGUISH ON THE RELEASE OF THE TEST KEY.

RELAY UNDER TEST	CONNECT SLEEVE OF T&R JACK TO RELAY TERMINAL	CONNECT GROUND TO RELAY TERMINAL
L1	12	14
		13
L2	22	24
		23
AR	32	34
		33
BR	42	44
		43
CR	52	54
		53

322. IN OFFICES ARRANGED FOR WIDEBAND (STANDARD) SWITCHING, CROSS CONNECT THE AUDIO LINE LINK FRAME TENS NUMBER (ALLTO-5) TO THE ASSOCIATED WIDEBAND LINE LINK FRAME NUMBERS (WLA00-39) AND THE AUDIO LINE LINK FRAME UNITS NUMBER (ALL0-9) TO THE ASSOCIATED WIDEBAND LINE LINK FRAME NUMBERS (WLB00-39).

323. IN A WIDEBAND (STD) OFFICE, THE REGULAR ORIGINATING TEST LINE (USED ALSO AS THE WIDEBAND ORIGINATING TEST LINE) LINE LINK APPEARANCE MUST APPEAR ON A FRAME ARRANGED FOR WIDEBAND SERVICE. THE AUDIO LINE LINK LOCATION OF THE ORIGINATING TEST LINE SHOULD BE CROSS CONNECTED IN THE WIDEBAND LINE CONTROL CIRCUIT TO SELECT THE SAME WIDEBAND ORIGINATING TEST LINE VERTICAL ON WIDEBAND LINE LINK 0 AS THE ONE SELECTED WHEN USING THE NO-TEST CONNECTOR WHICH USES AUDIO VG02,VFO, AND HG0. ALSO, WHEN THE OFFICE IS ARRANGED WITH WIDEBAND REMOTE SWITCH UNITS, CROSS CONNECTIONS IN THE WIDEBAND LINE CONTROL CKT MUST BE PROVIDED TO ASSOCIATE THE CONTROL FOR THE REMOTE SWITCH TEST ACCESS VERTICAL WITH THE CONTROL FOR THE AUDIO NO TEST LINE LINK LOCATION: AUDIO VG02,VFO, AND HG1 FOR THE FIRST WRS, HG2 FOR THE SECOND WRS, AND HG3 FOR THE THIRD WRS ON THE SAME WIDEBAND LINE LINK.

324. IN OFFICES ARRANGED FOR THE CALL WAITING FEATURE CROSS CONNECT THE NUMBER OF THE TRUNK LINK FRAME ON WHICH THE TRUNK TEST CIRCUIT HAS ITS APPEARANCE FOR TEST OF THE CALL WAITING LINK (ASSOCIATED FA(4) LEAD) IN ACCORDANCE WITH NOTE 304.

325. A DIRECTORY NUMBER SHALL BE ASSIGNED TO THE WIDEBAND ORIGINATING TEST LINE.

326. IN WIDEBAND (STD) OFFICES ARRANGED WITH A REMOTE SWITCH UNIT:

(A) CROSS CONNECT WRA(00-39) ASSOCIATED WITH THE 1ST REMOTE SWITCH ON EACH WIDEBAND LINE LINK TO WR(0); TO WR(1) WHEN ASSOCIATED WITH 2ND REMOTE SWITCH ON THE SAME WIDEBAND LINE LINK; AND TO WR(2) WHEN ASSOCIATED WITH THE 3RD REMOTE SWITCH UNIT ON THE SAME WIDEBAND LINE LINK.

(B) CROSS CONNECT WL(00-39) TO WRB(00-39) ASSOCIATED WITH THE SAME WIDEBAND LINE LINK.

INFORMATION NOTES:(CONT)

327. A BIT-STREAM LINE LINK APPEARANCE FOR USE AS THE BIT-STREAM TANDEM ORIGINATING TEST LINE (TAN OTL) MUST APPEAR ON AN AUDIO LINE LINK FRAME ARRANGED FOR BIT-STREAM SERVICE. THE AUDIO LINE LINK LOCATION OF THE BIT-STRCAM TAN OTL ASSOCIATED WITH THE KTN8 RELAY SHOULD BE CROSS CONNECTED IN THE WIDEBAND LINE CONTROL CIRCUIT TO SELECT A HOLD MAGNET ON ONLY ONE BIT-STREAM LINE LINK ASSOCIATED WITH THE WIDEBAND LINE CONTROL THAT SERVES THE AUDIO LINE LINK FRAME WHERE THE TAN OTL APPEARS. THIS BIT-STREAM LINE LINK HOLD MAGNET MUST BE THE SAME AS THE ONE SELECTED WHEN USING THE NO TEST VERTICAL (VG2,HG4,VFO) ON THE SAME AUDIO LINE LINK FRAME AS THE TAN OTL. THE VERTICAL FILE ASSIGNMENT OF THE TAN OTL FOR BIT-STREAM ON THE AUDIO LINE LINK FRAME MUST BE IN A VERTICAL FILE HAVING A BIT-STREAM CLASS.

328. IN OFFICES ARRANGED FOR MAGNETIC TAPE RECORDING OF AMA CALLS AND WHERE THE TRANSVERTER IS ARRANGED TO HANDLE ANI TRAFFIC, CROSS CONNECT THE DIRECTORY NUMBER OF THE ORIGINATING TEST LINE ACCORDING TO THE FOLLOWING TABLE:

CROSS CONNECT PUNCHINGS IN COLUMN "A" TO PUNCHINGS IN COLUMN B FOR EACH DIGIT OF DIRECTORY NUMBER

DIGIT OF ORIGINATING TEST LINE DIRECTORY NUMBER	COLUMN A	COLUMN B NUMERAL OF DIGIT									
		0	1	2	3	4	5	6	7	8	9
A	AAA AAB			ADA0 ADA2	ADA1 ADA2	ADA0 ADA4	ADA1 ADA4	ADA2 ADA4	ADA0 ADA7	ADA1 ADA7	ADA2 ADA7
B	ABA ABB			ADB0 ADB2	ADB1 ADB2	ADB0 ADB4	ADB1 ADB4	ADB2 ADB4	ADB0 ADB7	ADB1 ADB7	ADB2 ADB7
C	ACA ACB			ADC0 ADC2	ADC1 ADC2	ADC0 ADC4	ADC1 ADC4	ADC2 ADC4	ADC0 ADC7	ADC1 ADC7	ADC2 ADC7
D	ADA ADB	ADD4 ADD7	ADD0 ADD1	ADD0 ADD2	ADD1 ADD2	ADD0 ADD4	ADD1 ADD4	ADD2 ADD4	ADD0 ADD7	ADD1 AJD7	ADD2 ADD7
E	AEA AEB	ADE4 ADE7	ADE0 ADE1	ADE0 ADE2	ADE1 ADE2	ADE0 ADE4	ADE1 ADE4	ADE2 ADE4	ADE0 ADE7	ADE1 ADE7	ADE2 ADE7
F	AFA AFB	ADF4 ADF7	ADF0 ADF1	ADF0 ADF2	ADF1 ADF2	ADF0 ADF4	ADF1 ADF4	ADF2 ADF4	ADF0 ADF7	ADF1 ADF7	ADF2 ADF7
G	AGA AGB	ADG4 ADG7	ADG0 ADG1	ADG0 ADG2	ADG1 ADG2	ADG0 ADG4	ADG1 ADG4	ADG2 ADG4	ADG0 ADG7	ADG1 ADG7	ADC2 ADG7

329. WHEN INTERTOLL TRUNKS WITH REVERSE BATTERY SUPERVISON THROUGH THE SWITCHES ARE PROVIDED AND IF THE NEW NUMBERING PLAN ARRANGEMENT OF TRANSLATOR AND CLASS LEADS WITH INTERCHANGEABLE AREA AND NPA CODES AND TOLL INFORMATION CODES IS PROVIDED AND IF MORE FLEXIBLE ARRANGEMENT OF INCOMING TRUNK CLASS ASSIGNMENTS IS PROVIDED, CROSS CONNECT THE TERMINAL (TANA,B; TOLA,B;ETC.), WHICH CORRESPONDS TO THE INCOMING TRUNK CLASS THAT IS ASSIGNED TO THIS TYPE OF TRUNK IN THE MARKER CKT, TO THE (TAN) TERMINAL.

DRAWING ISSUE
510 DP
560 DP
630 AEJ
400 AJ
61A AM
620 AP
630 AS
64A AV
670 AX
710 PX
74A
760
800
820
834

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D31

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D31

CROSS CONNECTION INFORMATION

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
30	27F4	89	CONT D	30
		135	CONT A	
60	27F4	89	CONT D	60
		135	CONT A	
A0,1,2,4,7	14B/C0	55,101,136	CONT B	A0,1,2,4,7
AA	14B/D0	55,101,136	CONT B	AA
AA1		101,136	CONT B	AA1
AA2		136	CONT B	AA2
AAA	14A/G2			
AAB	14A/G2			
AB	14B/D0	55,101,136	CONT B	AB
AB1		101,136	CONT B	AB1
AB2		136	CONT B	AB2
ABA	14A/G3			
ABB	14A/G4			
ACA	14A/G6			
ACB				
ADA	14A/G8			
ADA0,1,2,4,7	14A/G2,G3			
ADB	14A/G8			
ADB0,1,2,4,7	14A/G3,G4			
ADC0,1,2,4,7	14A/G6			
ADD0,1,2,4,7	14A/F8			
ADE0,1,2,4,7	15A/G2,G3			
ADF0,1,2,4,7	15A/G3,G4			
ADG0,1,2,4,7	15A/G5			
AEA	15A/G2			
AEB	15A/G3			
AFA	15A/G4			
AFB				
AGA	15A/G5			
AGB				
ALLT0-5	113F2	224	A-A	ALLT0-5
ALLU0-9	113F3	224	A-B	ALLU0-9
B0,1,2,4,7	14B/C2	55,101,136	CONT B	B0,1,2,4,7
BA	14B/D2	55,101,136	CONT B	BA
BA1		101,136	CONT B	BA1
BA2	14B/D1	136	CONT B	BA2
BB	14B/D2	55,101,136	CONT B	BB
BB1		101,136	CONT B	BB1
BB2	14B/D1	136	CONT B	BB2
C0,1,2,4,7	14B/C4	55,101,136	CONT B	C0,1,2,4,7
CA	14B/D4	55,101,136	CONT B	CA
CA1		101,136	CONT B	CA1
CA2	14B/D3	136	CONT B	CA2
CB	14B/D4	55,101,136	CONT B	CB
CB1		101,136	CONT B	CB1
CB2		136	CONT B	CB2
CG	27r3	89	CONT D	CG
		135	CONT A	
DTKA	68D6			
DTN	68D6			

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
FG	44B/C1	72,137	CONT C	FG
FG0,1,2	44B/B2	72,137	CONT C	FG0,1,2
FGA1,2,3	44B/C2	137	CONT C	FGA1,2,3
FS2,5	23B/E7	136	CONT B	FS2,5
FT	22A/G0	57	CONT C	FT
FT0-3	22A/F0	57,103,137	CONT C	FT0-3
FTA	22A/G0	103,137	CONT C	FTA
FTA1	22A/G1-G4	103,137	CONT C	FTA1
FTA2,4,5		137	CONT C	FTA2,4,5
FTA3		106	4W	FTA3
FTA6,7		206	CONT W	0,10
FTB	22A/G0	57,103,137	CONT C	FTB
FTB1	22A/G1-G4	103,137	CONT C	FTB1
FTB2,4,5		137	CONT C	FTB2,4,5
FTB3		106	4W	FTB3
FTB6,7		206	CONT W	1,11
FU0,1,2,4,7	22B/F1	57	CONT C	FU0,1,2,4,7
		103,136	CONT B	
FUA	22B/G0	57	CONT C	FUA
		103,136	CONT B	
FUA1	22B/G1-G4	103,136	CONT B	FUA1
FUA2,4,5		136	CONT B	FUA2,4,5
FUA3		106	4W	FUA3
FUA6,7		206	CONT W	2,12
FUB	22B/G0	57	CONT C	FUB
		103,136	CONT B	
FUB1	22B/G1-G5	103,136	CONT B	FUB1
FUB2,4,5		136	CONT B	FUB2,4,5
FUB3		106	4W	FUB3
FUB6,7		206	CONT W	3,13
HG0,1,2,4,7	24A/E1	57	CONT C	HG0,1,2,4,7
		103,136	CONT B	
		229	A-C	
HGA	24A/F0	57	CONT C	HGA
		103,136	CONT B	
HGA1	24A/F0-F3	103,136	CONT B	HGA1
HGA2,5		136	CONT B	HGA2,5
HGA3		106	4W	HGA3
HGA6,7		206	CONT W	6,16
HGB	24A/F0	57	CONT C	HGB
		103,136	CONT B	
HGB1	24A/F1-F3	103,136	CONT B	HGB1
HGB2,5		136	CONT B	HGB2,5
HGB3		106	4W	HGB3
HGB6,7		206	CONT W	7,17

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
HGR(00-09)A	24A/F3	227	A-A	HGR(00-09)A
HGR(10-19)A		228	A-B	HGR(10-19)A
HGR(20-29)A		231	A-E	HGR(20-29)A
HGR(30-39)A		232	A-F	HGR(30-39)A
HGR(00-09)B	24A/F3	227	A-A	HGR(00-09)B
HGR(10-19)B		228	A-B	HGR(10-19)B
HGR(20-29)B		231	A-E	HGR(20-29)B
HGR(30-39)B		232	A-F	HGR(30-39)B
HGT0-9	24B/E7	134	C-APTT	60-69
HN0,1,2,4,7	14B/G1,G2	55,135,101	CONT A	HN0,1,2,4,7
HNA	14B/G0	55	CONT A	HNA
HNA1-7	14B/G0-G7 H4	101,135	CONT A	HNA1-7
HNA8-13,15		135	CONT A	HNA8-13,15
HNA14		206	CONT W	62
HNA17,18		135	AP3	23,40
HNB	14B/G1	55	CONT A	HNB
HNB1-7	14B/G1-G7 H4	101,135	CONT A	HNB1-7
HNB8-13,15		135	CONT A	HNB8-13,15
HNB14		206	CONT W	63
HNB17,18		135	AP3	22,39
HT0,1,2,4,7	39B/F3	104,138	CONT D	HT0,1,2,4,7
HTA	39B/F1	104,138	CONT D	HTA
HTA1	39B/F2	104,138	CONT D	HTA1
HTB	39B/F3	104,138	CONT D	HTB
HTB1	39B/F3	104,138	CONT D	HTB1
HTE	39B/F2	138	CONT D	HTE
HTF	39B/F3	138	CONT D	HTF
HTG	39B/F2	138	CONT D	HTG
HTH	39B/F3	138	CONT D	HTH
HTJ	39B/F2	137	CONT C	HTJ
HTK	39B/F4	137	CONT C	HTK
HTN	39B/F2	137	CONT C	HTN
HTO	39B/F4	137	CONT C	HTO
HTP	39B/F2			
HTP1	39B/F3			
HTR	39B/F4			
HTR1	39B/F4			
INCA	34B/B1	139	CONT E	36
INCB	34B/D1	139	CONT E	46
LS	18B/A2			
NS	18B/A2			

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
OAE	19B5	71	CONT C	OAE
		139	CONT E	
OAP	19E5	71	CONT C	OAP
		139	CONT E	
OAT	19D5	71	CONT C	OAT
		137	CONT E	
OBE	19B5	71	CONT C	OBE
		139	CONT E	
OBP	19D5	71	CONT C	OBP
		139	CONT E	
OBT	19C5	71	CONT C	OBT
		139	CONT E	
OFF0-5	1984-F4	71	CONT C	0-5
		139	CONT E	
OFF6-29		139	CONT E	6-29
PC	34B/B2	139	CONT E	62
PCDA	34B/C1	139	CONT E	38
PCDB	34B/E1	139	CONT E	48
PCD1A	34B/C1	139	CONT E	39
PCD1B	34B/E1	139	CONT E	49
PCRA	34B/B1	139	CONT E	37
PCRB	34B/D1	139	CONT E	47
T0,1,2,4,7	14B/G4,G5	55,101,135	CONT A	T0,1,2,4,7
TA	14B/G1	55	CONT A	TA
TA1-7	14B/G1-G7 H4	55,101	CONT A	TA1-7
TA8-13,15		135	CONT A	TA8-13,15
TA14		206	CONT W	64
TA17,18		135	AP3	21,38
TAN	34B/C2	139	CONT E	56-59
TAN1-4A	34B/B1	139	CONT E	31-34
TAN1-4B	34B/D1	139	CONT E	41-44
TANA	34B/A1	139	CONT E	30
TANB	34B/C1	139	CONT E	40

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
TB	14B/G1	55	CONT A	TB
TB1-7	14B/G1-G7 H4	101,135	CONT A	TB1-7
TB8-13,15		135	CONT A	TB8-13,15
TB14		206	CONT W	61
TB17,18		135	AP3	20,37
TCT	6806			
TF0,1,2,4,7	44B/B5	72,136	CONT B	TF0,1,2,4,7
TFA	44B/C5	72,136	CONT B	TFA
TFA1	44B/C4	136	CONT B	TFA1
TFA2,3	44B/C4	137	CONT C	TFA2,3
TFB	44B/C5	72,136	CONT B	TFB
TFB1	44B/C6	136	CONT B	TFB1
TFB2,3	44B/C6	137	CONT C	TFB2,3
TH0,1,2,4,7	14B/G0,G1	55,101,135	CONT A	TH0,1,2,4,7
THA	39B/F0, 14B/G0	55	CONT A	THA
		136	CONT B	
THA1	39B/F0, 14B/G0	101,135	CONT A	THA1
		136	CONT B	
THA2-7	14B/G2-G7 H3	101,135	CONT A	THA2-7
THA8-13,15		135	CONT A	THA8-13,15
THA14		206	CONT W	60
THA17,18		135	AP3	25,42
THB	14B/G0	55	CONT A	THB
THB1-7	14B/G0-G7 H4	101,135	CONT A	THB1-7
THB8-13,15		135	CONT A	THB8-13,15
THB14		206	CONT W	61
THB17,18		135	AP3	24,41
THE	39B/F0	136	CONT B	THE
THG	39G/F0	136	CONT B	THG
THGT	24B/F6	57	CONT C	THGT
THGT0-9	24B/E7	57,103,137	CONT C	THGT0-9
THGTA	24B/F6	103,137	CONT C	THGTA
THGTA1	24B/F7	103,137	CONT C	THGTA1
THGTA4,5		137	CONT C	THGTA4,5
THJ	39B/F1	137	CONT C	THJ
THN	39B/F1	137	CONT C	THN
THO	39B/F1			
THO1	39B/F1			
THT0-3	39B/F0	136	CONT B	THT0-3
TLT0-3	44B/C3	72,137	CONT C	TLT0-3
TOL	34B/D2	139	CONT E	50-53
TOLA	34B/B1	139	CONT E	35
TOLB	34B/D1	139	CONT E	45

DRAWING MISLIP
78D
79A
80D
82D
83A

ISSUE 97A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-D33

BELL TELEPHONE LABORATORIES INCORPORATED

6S

CROSS CONNECTION INFORMATION

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
TTO,1,2,4,7	39B/B1	104,138	CONT D	TTO,1,2,4,7
TTA	39B/C0	104,138	CONT D	TTA
TTAI	39B/C0	104,138	CONT D	TTAI
TTB	39B/C1	104,138	CONT D	TTB
TTBI	39B/C1	104,138	CONT D	TTBI
TTE	39B/C0	138	CONT D	TTE
TTF	39B/C2	138	CONT D	TTF
TTG	39B/C0	138	CONT D	
TTH	39B/C2	138	CONT D	
TTJ	39B/C0	137	CONT C	TTJ
TTK	39B/C2	137	CONT C	TTK
TTN	39B/C1	137	CONT C	TTN
TTO	39B/C2	137	CONT C	TTO
TTP	39B/C1			
TTPI	39B/C1			
TTR	39B/C2			
TTRI	39B/C2			
TUA0-3	44B/C3	72,138	CONT D	TUA0-3
TUB0-3	44B/C3	72,138	CONT D	TUB0-3
TVFT	25F6	57	CONT C	TVFT
TVFTO-4	25E6	57,103, 137	CONT C	TVFTO-4
TVFTA	25F6	103,137	CONT C	TVFTA
TVFTAI	25F7	103,137	CONT C	TVFTAI
TVFTA4,5	25E5,E7	137	CONT C	TVFTA4,5
TVGT	23B/F8	57	CONT C	TVGT
TVGTO-11	23B/D8,D9	57,103, 137	CONT C	TVGTO-11
TVGT12,13		57	CONT C	TVGT12,13
TVGTA	23B/F8	103,137	CONT C	TVGTA
TVGTAI	23B/F8,F9	103,137	CONT C	TVGTAI
TVGTA4,5		137	CONT C	TVGTA4,5
TVTAI,4,5	25E6			
U0,1,2,4,7	14B/G6,G7	55,101	CONT B	U0,1,2,4,7
		135	CONT A	
UA	14B/G1	55	CONT A	UA
			CONT B	
UA1-6	14B/G1-G7, H4	101	CONT B	UA1-6
		135	CONT A	
UA7		101,135	CONT A	UA7
UA8-13,15		135	CONT A	UA8-13,15
UA14		206	CONT W	66
UA17,18		135	AP3	19,36
UB	14B/G1	55	CONT A	UB
			CONT B	
UB1-6	14B/G1-G7, H4	101	CONT B	UB1-6
		135	CONT A	
UB7		101,135	CONT A	UB7
UB8-13,15		135	CONT A	UB8-13,15
UB14		206	CONT W	67
UB17,18		135	AP3	18,35

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
UK	68D6			
UTO,1,2,4,7	39B/B6	104,138	CONT D	UTO,1,2,4,7
UTA	39B/C4	104,138	CONT D	UTA
UTAI	39B/C4	104,138	CONT D	UTAI
UTB	39B/C6	104,138	CONT D	UTB
UTBI	39B/C6	104,138	CONT D	UTBI
UTC	39B/C7	104,138	CONT D	UTC
UTCI	39B/C7	104,138	CONT D	UTCI
UTD	39B/C5	104,138	CONT D	UTD
UTDI	39B/C5	104,138	CONT D	UTDI
UTE	39B/C4	138	CONT D	UTE
UTF	39B/C6	138	CONT D	UTF
UTG	39B/C5	138	CONT D	UTG
UTH	39B/C7	138	CONT D	UTH
UTJ	39B/C5	137	CONT C	UTJ
UTK	39B/C7	137	CONT C	UTK
UTL	39B/C4	137	CONT C	UTL
UTM	39B/C7	137	CONT C	UTM
UTN	39B/C5	137	CONT C	UTN
UTO	39B/C8	137	CONT C	UTO
UTP	39B/C6			
UTPI	39B/C6			
UTR	39B/C8			
UTRI	39B/C8			
VF	25F0	57	CONT C	VF
VFO-4	25F0	57,103, 137	CONT C	VFO-4
		229	A-C	
VFA	25F0	103,137	CONT C	VFA
VFAI		103,137	CONT C	VFAI
VFA2,5	25F0,F1	137	CONT C	VFA2,5
VFA3				
VFA6,7		206	CONT W	8,18
VFR00-09	25F2	227	A-A	VFR00-09
VFR10-19		228	A-B	VFR10-19
VFR20-29		231	A-E	VFR20-29
VFR30-39		232	A-F	VFR30-39
VFTO-4	25E6	134	C-APTT	50-54
VGO,1,2,4,7	23A/F9	57,103, 137	CONT C	VGO,1,2,4,7
		229	A-C	
VGIO		57,103, 137	CONT C	VGIO
		230	A-D	
VGA	23A/G4	57,103, 137	CONT C	VGA
VGAI	23A/G5-G8	103,137	CONT C	VGAI
VGA2		137	CONT C	VGA2
VGA3		106	4W	VGA3
VGA5		136	CONT B	VGA5
VGA6,7		206	CONT W	4,14

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.
VGB	23A/G4	57,103, 137	CONT C	VGB
VGBI	23A/G5-G8	103,137	CONT C	VGBI
VGB2		137	CONT C	VGB2
VGB3		106	4W	VGB3
VGB5		136	CONT B	VGB5
VGB6,7		206	CONT W	5,15
VGR(00-09)A	23A/G9	227	A-A	VGR(00-09)A
VGR(10-19)A		228	A-B	VGR(10-19)A
VGR(20-29)A		231	A-E	VGR(20-29)A
VGR(30-39)A		232	A-F	VGR(30-39)A
VGR(00-09)B	23A/G9	227	A-A	VGR(00-09)B
VGR(10-19)B		228	A-B	VGR(10-19)B
VGR(20-29)B		231	A-E	VGR(20-29)B
VGR(30-39)B		232	A-F	VGR(30-39)B
VGTO-13	23B/D6,D7	136	CONT B	VGTO-13
WL00-39	20A/B7	233	A-G	WL00-39
WLA00-39	113F2	224	B-A	WLA00-39
WLB00-39	113F3	224	B-B	WLB00-39
WR0,1,2	20A/F7,F8	229	A-C	WR0,1,2
WRA00-09	20A/E7	227	A-A	WRA00-09
WRA10-19		228	A-B	WRA10-19
WRA20-29		231	A-E	WRA20-29
WRA30-39		232	A-F	WRA30-39
WRB00-09	20A/C7	227	A-A	WRB00-39
WRB10-19		228	A-B	WRB10-19
WRB20-29		231	A-E	WRB20-29
WRB30-39		232	A-F	WRB30-39
WS1,3-5	23B/E6	136	CONT B	WS1,3,5

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.

DESIG	LOCATION			
	FS	CAD	TS	TERM. NO.

DRAWING ISSUE
780
79A
80D
82D
83A

ISSUE
97A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D34

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D34

FIG. 201A. OPERATION OF KEYS FOR SETTING UP TYPICAL MARKER TESTS

SYMBOLS USED:

- X. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY, BUTTON OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.
- ◆ FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "◆" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS. ANY APPROPRIATE COMBINATION OF KEYS MARKED ◆ MAY BE OPERATED.
- 0,* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "0" MUST BE OPERATED.

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF IIX SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3-DIGIT CODE AREA.

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED	SEE NOTE	INC TRK CLASS OR RECORDER NO. ITC & RN	LINE LINK FRAME 100S FT	LINE LINK FRAME UNITS FU	VERTICAL GROUP VG	HORIZONTAL GROUP HG	VERT FILE (SEE NOTE 1) VERT FILE (CL TOM) VF	CL OF SERV TENS (CL TOM) (SEE NOTE 1) CST	CLASS OF SERVICE UNITS CSU	INCOMING CLASS OF CALL IC	A	B	C	D	E	F	G	H	J	K	L	RC	RINGING COMBINATION (RC) CRU	RING COMD, RATE TREATMENT (SEE NOTE 1)	TRUNK - LINK FRAME SELECTION FS	TRUNK OR ORIGINATING REGISTER SELECTION TS	OUTG. SENDER SELECTION OS	CHANNEL SELECTION CH	JUNCTOR SEQUENCE SELECTION JSQ	SLEEVE S	TOM TRK HUNDS OR MSG BILLING INDEX HT	TOM TRK TENS OR CODE POSITION TT	TANDEM TRUNK UNITS UT	SWITCHES: CN (A-G) SWITCHES CALLING NUMBER	SG SWITCHES SENDER GROUP	POS SWITCH CAMA POSITION OR CENTREX POSITION	CRX SWITCH INFORMATION DIGIT	CD SWITCH CONTROL DIGIT (EFFECTIVE IF (4'K') KEY IS OPERATED)	MT SWITCH MARKER-TRANSVERTER SELECTION	RA SWITCH ROUTE ADVANCE	OFU SWITCH OFFICE UNITS	POS LOOP SWITCH CENTREX POSITION LOOP	LINE NO.
1	MARKER TEST DIAL TONE CLASS	CONNECT TO 1ST ORIG REGISTER GRP-NON-MIXED FRAME				ANY LINE LOCATION																				+	+		+	+										1
2		CONNECT TO 2ND 3RD,4TH,5TH, OR 6TH ORIG REG GRP NON MIXED FRAME				ANY LINE LOCATION																				+	+		+	+										2
3		CONNECT TO ORIG REGISTER GROUP-VERTICAL PATENT REQD				ANY LINE LOCATION																				+	+		+	+										3
4																																										4
5																																										5
6		INTRAOFFICE CALL - NON REVERTIVE - IDLE LINE				ANY LINE LOCATION				X	X		INTRA OFFICE CODE			ANY LINE NUMBER									X	+	+	+	+	+	+							X				6
7		OUTGOING CALL OR INTERMARKER GROUP CALL				ANY LINE LOCATION				X	X		APPROPRIATE OFFICE CODE			ANY LINE NUMBER				STA. DIGIT					X	+	+	+	+	+							X				7
8		3 DIGIT OPERATOR CALL				ANY LINE LOCATION				X	X		3 DIGIT OPERATOR CODE												X	+	+		+	+							X				8
9		SPECIAL SERVICE CALL				ANY LINE LOCATION				X	X		0												X	+	+		+	+							X				9
10		INTRAOFFICE CALL - REVERTING				ANY LINE LOCATION				REV. CL. OF SERV.	X		INTRA OFFICE CODE			NUMBER OF CALLING LINE									X	+	+	+	+	+							X				10
11		PERMANENT SIGNAL				ANY LINE LOCATION				X	X														X	+	+		+	+							X				11
12		PARTIAL DIAL				ANY LINE LOCATION				X	X														X	+	+		+	+							X				12
13		STUCK COIN				ANY LINE LOCATION				X	X														X	+	+		+	+							X				13
14		INTRA OFFICE CALL - BUSY LINE (ROUTE ADV. TO TONE TRUNK - BUSY TONE)				ANY LINE LOCATION				X	X		INTRA OFFICE CODE			ANY LINE NUMBER									X	+	+		+	+							X				14
15		ROUTE ADVANCE TO TONE TRUNK (OFL TONE)				ANY LINE LOCATION				X	X		OFFICE CODE NOT HAVING ALT. ROUTE			ANY LINE NUMBER				STA. DIGIT					X	+	+		+	+							X				15
16		ROUTE ADVANCE TO COMMON OVERFLOW TRUNK (OFL TONE)				ANY LINE LOCATION				X	X		OFFICE CODE NOT HAVING ALT. ROUTE			ANY LINE NUMBER				STA. DIGIT					X	+	+		+	+							X				16
17		ROUTE ADVANCE TO ALTERNATE ROUTE				ANY LINE LOCATION				X	X		OFFICE CODE HAVING ALT. ROUTE			ANY LINE NUMBER				STA. DIGIT					X	+	+		+	+							X				17
18		ROUTE ADVANCE THROUGH ALTERNATE ROUTE TO TONE TRUNK (OFL TONE)				ANY LINE LOCATION				X	X		OFFICE CODE HAVING ALT. ROUTE			ANY LINE NUMBER				STA. DIGIT					X	+	+		+	+							X				18
19		ROUTE ADV. THROUGH ALT. ROUTE TO COMMON OVERFLOW TRUNK (OFL TONE)				ANY LINE LOCATION				X	X		OFFICE CODE HAVING ALT. ROUTE			ANY LINE NUMBER				STA. DIGIT					X	+	+		+	+							X				19
20		ROUTE ADV. FROM PERM. SIGNAL TO COMMON OVERFLOW TRUNK (PS TONE)				ANY LINE LOCATION				X	X														X	+	+		+	+							X				20
21		ROUTE ADVANCE TO RETURN BUSY TONE RELEASE				ANY LINE LOCATION				X	X		OFFICE CODE NOT HAVING ALT. ROUTE			ANY LINE NUMBER									X												X				21
22		COIN FREE ROUTE CALL - RETURN COIN				ANY LINE LOCATION				COIN CL. OF SERV.	X		FREE OFFICE CODE			ANY LINE NUMBER									X												X				22
23		COIN FREE ROUTE CALL - CONNECT TO TRUNK				ANY LINE LOCATION				COIN CL. OF SERV.	X		FREE OFFICE CODE			ANY LINE NUMBER									X	+	+	+	+	+							X				23
24		FOREIGN AREA CALL				ANY LINE LOCATION				FOREIGN AREA CL. OF SERV.	X		X	0 OR 1	X	FOREIGN AREA OFFICE CODE	ANY LINE NUMBER			STA. DIGIT					X	+	+	+	+	+							X				24
25		FOREIGN AREA CALL (VACANT CODE)				ANY LINE LOCATION				FOREIGN AREA CL. OF SERV.	X		X	0 OR 1	X	VACANT OFFICE CODE	ANY LINE NUMBER			STA. DIGIT					X												X				25
26																																										26
27																																										27
28																																										28

MARKER TEST, ORIGINATING CLASS

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

NOTE 1: OPTION "RB" MAKES "MD" RC KEYS 11-15.
OPTION "RC" PROVIDES RC 11-15 ON RC KEYS 1-5 WITH OTRC KEY OPERATED
OPTION "RD" MAKES "MD" VFO-4 KEYS
OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF KEYS 0-4
OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS A & B KEY (CSGA, CSGB)

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MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG 201A (CONT)

PUSHBUTTON KEYS

LINE NO.		
SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST		
LP(0-11)		PROGRESS AND IDENTIFICATION LAMP CONTROL
NG(A-H)		ALLOTTED NUMBER GROUP SELECTION CONTROL
	OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"
AD		AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"
	-	
DNC		DENIED CODE
	-	
LCD1		LOCAL CODE 1
	LCD2	LOCAL CODE 2
ACD		AREA CODE
	LOM1	LINE OBSERVING MATCHING 1
LOMD		LINE OBSERVING MATCHING 0
	TI2	TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)
TI1		TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)
	-	
TI3		TROUBLE INDICATION 3 (CAMA SUSPENSION COMPLETE FREE)
	-	
ROP		RECORDER POSITION
-	OTRC	OVER TEN RINGING COMBINATION
	-	
	CAM0	CAMA INCOMING TANDEM SUPERVISION
CAM2		CAMA COMPLETING TANDEM SUPERVISION
	CAM1	CAMA INCOMING TOLL SUPERVISION
CAM3		CAMA COMPLETING TOLL SUPERVISION
	BI1	BILLING INDEXER 1
BI0		BILLING INDEXER 0
	ANI	AUTO. NO. IDENT
CAMA		CAMA
	VTC	VACANT TERMINATING CODE
FC		FREE CALL
	-	
ORC0		ORIGINATING RATE CLASS 0
	ORC1	ORIGINATING RATE CLASS 1
ORC2		ORIGINATING RATE CLASS 2
	CAT	CAMA SENDER TIME OUT
CA		CALL ABANDONED
	CAMS	CAMA SENDER CLASS OF TEST
IMT		CAMA INTERMARKER GROUP TRUNK CLASS OF TEST
	ANY POS	ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION
	TST POS	DIRECTS CAMA TEST CALL TO SIMULATED POSITION
	SEL POS	DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR
	OP	OUTPULSE
	-	
	LT3	PRIVATE LINE NET. (PREFIX DIGIT "8")
2-DTO		TWO DIGIT TRANSLATOR, ORIGINATING CLASS
	FS	FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)
NTFS		FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)
	FG2	FRAME GROUP 2
FG0		FRAME GROUP 0
	FG1	FRAME GROUP 1
	TS	TRUNK SELECTION
NTTS		NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)
	ATLV	ANI TRANSVERTER LINE VERIFICATION
OSS		OUTSENDER SELECTION
	SGB	SENDER GROUP B
SGA		SENDER GROUP A
	GPB	ALLOTTER GROUP B
GPA		ALLOTTER GROUP A
	RA1	ROUTE ADVANCE ONCE
RA0		NO ROUTE ADVANCE
	RA3	ROUTE ADVANCE THREE TIMES
RA2		ROUTE ADVANCE TWICE
	RBT	RETURN BUSY TONE (TROUBLE RELEASE)
TRR		TROUBLE RECORD (REGULAR RELEASE)
	RLT	OPEN "RL" LEAD
HLD		HOLD
	LT1	DIGIT "1" ACCESS CALL
LT2		ZERO PREFIX PPCS CALL
	NID	NON-OPERATOR IDENTIFIED PPCS CALL
TCB		TRUNK CLASS B
	FVDT	FIFTH DIGIT TRANSLATION
20TT		20T TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY)
	PTR	OPEN "PTR" LEAD
IOD		OPERATOR IDENTIFIED PPCS CALL
	PRL	OPEN "PRL" LEAD
OT		OPEN TRANSMITTING LEADS
	RLK	OPEN "RLK" LEAD
LK		OPEN LOCKING GROUND
	S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2
S1L		STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1
	S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4
S3L		STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3
	STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY
RTBL		RECORDER TROUBLE
	TOF	TRANSLATOR OVERFLOW
SFAL		STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY
	TICB	FALSE BATTERY ON "TIC" LEAD
TICG		FALSE GROUND ON "TIC" LEAD
	-	
TRO		TRANSLATOR OPERATE
	5DG	FIVE DIGIT NUMBER NO LETTERED STATION
4DG		FOUR DIGIT NUMBER NO LETTERED STATION
	LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS
LSD		LETTERED STATIONS MORE THAN 10,000 NUMBERS
SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST		
LINE NO.		

ON TESTS WHERE "X" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED

LEVER TYPE KEYS (CONT)

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SEE PRECEEDING SHEETS FOR ADDITICNAL KEYS TO BE OPERATE FOR EACH TEST

28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	LINE NO
																												TVT
																												PTT
																												TVT1
																												TLV
																												SDT2
																												SDT1
																												SDT3
																												RMB
																												OFF1
																												OFF0
																												OFF3
																												OFF2
																												OFF5
																												OFF4
																												-
				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	OBS
																										×	×	×	DT
				×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×						ORIG
																												INC
																												SDT
																												OR
																												SDR
																												IR
																												IMS
																												OGT
																												MISC
																												IAO
																												ITDO
																												ATNT
																												ITNP
																												MLV
																												LT
																												TTL
																												BB
																												KY
																												KRC
																												-
				+																		+						TOBS
				+																		+						CAM FAD HFA
			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×						(CGB) CSGA
			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×						CSGB
																												TTI
																												E
			+	+																								FAB
																												FAA
				+	+	—	—	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	—	—	+	+	+	STP2
																												STP1
																						+						EBH
			×	+												+												PBXH
																												FACD
																												PTL
																						+						GT
			+	+	+			+	+	+	+	+	+	+		+	+	+	+	+	+	+			+	+	+	FCG
																												LGT
																												TCT
																												HTR
																												TC
				+		—	—	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	—	—	+	+	+	CCN
															×														RV
																						+						LBL
																												PU
																									+	+	+	HLH
					+			+	+	+	+	+	+			+	+	+	+	+	+				+	+	+	LB
			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				+	+	+	TR2
																												TRS
																												MF
																										×		MLF
					×			+									+	+		+	+							CNR
															×													SCN
								×									×											PS
																×												PO
			+	+		—	—	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	—	—	+	+	+	TP
																												PMM
																												11
																					+							X11
																												2DT
																												2DTI
																												FNB
																												FNA
																												PCD
																												PCD1
																												THC
																												PHC
																												DCK
																												LR
																												ROT
																												OCN
																												RO
																												ND
																												NN
															+							+							NGT
																												NT
																												NH
																												SPL
			+	+	+			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+	NTC

SEE NOTE 1

SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

FIG. 201A (CONT)

LEVER TYPE KEYS (CONT)

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG. 201A (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

LEVER TYPE KEYS (CONT)

Key	Description	Group
RTO	ORIGINATING REGISTER ROUTE "0"	
RT1	ORIGINATING REGISTER ROUTE "1"	
RT2	ORIGINATING REGISTER ROUTE "2"	
RT3	ORIGINATING REGISTER ROUTE "3"	
4W	4-WIRE	EFFECTIVE IF (4W) KEY IS OPERATED
–		EFFECTIVE IF (4W) KEY IS OPERATED
CONA	NORMAL-TEST (CON) TUBE / OPERATED-TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) AND (TCT) KEYS	EFFECTIVE IF (4W) KEY IS OPERATED
FCGA	OPERATE TEST-MARKER (FCGA) RELAY	EFFECTIVE IF (4W) KEY IS OPERATED
–		EFFECTIVE IF (4W) KEY IS OPERATED
NGPB	NUMBER GROUP "B"	EFFECTIVE IF (4W) KEY IS OPERATED
NGPA	NUMBER GROUP "A"	EFFECTIVE IF (4W) KEY IS OPERATED
LES	GROUND ON LINE LINK "ES" LEAD	ECHO SUPR CONTROL TESTS
NLES	MISSING GROUND ON LINE LINK "ES" LEAD	ECHO SUPR CONTROL TESTS
TES	GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPR CONTROL TESTS
NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPR CONTROL TESTS
GESK	FALSE GROUND ON "ESK" LEAD	ECHO SUPR CONTROL TESTS
OESK	OPEN "ESK" LEAD	ECHO SUPR CONTROL TESTS
OFT1	OFFICE TENS "1"	
OFT2	OFFICE TENS "2"	
TST CNSL	TEST CONSOLE	CENTREX TESTS
–		CENTREX TESTS
ATC	ATTENDANT CLASS	CENTREX TESTS
TRF	TRANSFER CLASS	CENTREX TESTS
CDN	LISTED DIRECTORY NUMBER	CENTREX TESTS
CGLS	CUSTOMER GROUP LINE SIMULATED	CENTREX TESTS
CNTX	CENTREX	CENTREX TESTS
–		CENTREX TESTS
NFG0 / NFG1 / NFG2	NUMBER GROUP FRAME SELECTION	CENTREX TESTS
608	608 CORD BOARD OPERATION	CENTREX TESTS
–		CENTREX TESTS
CDA SW	4-WIRE ROUTE CONTROL DIGIT	
TBS SW	TENS BLOCK SCREENING	
TERT SW	TERMINATING TREATMENT	
TBT SW	NUMBER GROUP TENS BLOCK TENS	LINE LINK PULSING
TBU SW	NUMBER GROUP TENS BLOCK UNITS	LINE LINK PULSING
LLP	LINE LINK PULSING	LINE LINK PULSING
NG1K	FIPST NUMBER GROUP USAGE CHECK	LINE LINK PULSING
NTLS	NO TEST LLP LINE CKT SELECTION	LINE LINK PULSING
NG2K	SECOND NUMBER GROUP USAGE CHECK	LINE LINK PULSING
RIP	RESTRICTED INTERCEPT PBX	
–		
ST SEL SW	START LEAD SELECT	CONF CONT
CTAD	CONTROLLED ADVANCE	CONF CONT
STAA	AUTOMATIC ADVANCE START	CONF CONT
–		CONF CONT
IST	INDIVIDUAL START	CONF CONT
STAD	START ADVANCE	CONF CONT
STRC	START RECYCLE	CONF CONT
DL3	DELETE 3	
DL6	DELETE 6	
PERT	PRE-EMPTION REGISTER TEST	
PEMT	PRE-EMPTION MARKER TEST	
OI1	AIOD OFFICE INDEX "1"	
OI2	AIOD OFFICE INDEX "2"	
THT1	THOUSANDS DIGIT TRUNK NUMBER	
–		
REC	TROUBLE RECORD	
REP	REPEAT TEST	
RL	RELEASE	
ST	START AND ADVANCE	

Key	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
REC				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+	+
REP																												
RL				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X
ST				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X

LINE NO.

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

(2)

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FIG. 201A (CONT)

SYMBOLS USED:

- X. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY, BUTTON OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.
- +. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "+" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS. ANY APPROPRIATE COMBINATION OF KEYS MARKED + MAY BE OPERATED.
- O,* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "O" MUST BE OPERATED.

NOTES:

1. FOR 2 DIGIT TRANSLATION OF 8X CODES WITH TANDEM OPERATION OPERATE (2DT) KEY INSTEAD OF BUTTON ON (IC) KEY. FOR NONTANDEM OPERATION, (INCOMING CLASS), OPERATE (2DTI) KEY. SET 8X CODE ON (A) & (B) KEYS FOLLOWED BY NUMERICAL DIGITS ON SUCCESSIVE KEYS.
2. FOR TOLL TRANSLATION WITH INCOMING CLASS, OPERATE (TTI) KEY INSTEAD OF (TOL) BUTTON ON (IC) KEY.
3. FOR TOLL OR TANDEM CLASSES

CLASS	(RE)	(RC) KEY OPERATED
PRIOR TO ISS 22D NO TAN OR TOLL SCREEN	TAN	TAN (IC)
	TOL	TOL (IC)
PRIOR TO ISS 22D WITH TANDEM SCREENING	TOL	TOL (IC)
	TAN (O)	VFO CSTO TAN (IC)
	TAN 1-4	VFT-4, CSTT-4, TAN(IC)/2DT/FVD

(NOTE 3 CONT'D AT BOTTOM OF PAGE)

INTERLOCKING PUSHBUTTON TYPE KEYS

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED	SEE NOTE	INC TRK CLASS OR RECORDER NO.	LINE LINK FRAME TENS	LINE LINK FRAME UNITS	VERTICAL GROUP	HORIZONTAL GROUP	VERT FILE (SEE NOTE 4) CL TOM	CL OF SERV TENS (CL TOM) (SEE NOTE 4)	CLASS OF SERVICE UNITS	INCOMING CLASS OF CALL	CODE AND DIGIT KEYS: REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF 11X SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3-DIGIT CODE AREA.											RINGING COMBINATION	RING COMB. RATE TREATMENT (SEE NOTE 4)	TRUNK - LINK FRAME SELECTION	TRUNK OR ORIG. RATING REGISTER SELECTION		OUTG. SENDER SELECTION	CHANNEL SELECTION	JUNCTOR SEQUENCE SELECTION	SLEEVE	TRM TRK NUMBS OR MSG BILLING INDEX	TRM TRK TENS OR CODE POSITION	TANDEM TRUNK UNITS
													A	B	C	D	E	F	G	H	J	K	L												
29				ITC & RN	FT	FU	VG	HG	VF	CST	CSU	IC												RC	(RC) CRU	FS	TS		DS	CH	JSQ	S			UT
30																																				
31		REGULAR INCOMING CALL		X								OA OR OB	ANY LINE NUMBER													X				+	+	+			
32		NO HUNT INCOMING CALL		X								OA OR OB	ANY LINE NUMBER													X				+	+				
33		REGULAR TEST DESK INCOMING CALL		X								OA OR OB	ANY LINE NUMBER													X				+	+	+			X
34		NO TEST INCOMING CALL		X								OA OR OB	ANY LINE NUMBER													X				+	+	+			X
35		5 DIGIT INCOMING CALL		X								AB	FIFTH DIGIT	ANY LINE NUMBER												X				+	+	+			X
36		REVERTIVE INCOMING CALL WITH HIGH-LOW FIVE PHYSICAL THEORETICAL DISCRIMINATION		X								AB	ANY LINE NUMBER													X				+	+	+			X
37		REORDER		X									ANY LINE NUMBER													X									X
38																																				
39		5 DIGIT TANDEM INC. CALL — LOCAL COMPLETION TO LINE — TANDEM COMPLETION TO OUTGOING TRUNK — DETERMINED BY 5TH DIGIT							X	X		FVD	FIFTH DIGIT	ANY LINE NUMBER													X				+	+		X	X	X	X
40									X	X		FVD	FIFTH DIGIT	ANY LINE NUMBER	STA. DIGIT											X	+	+	+	+		X	X	X	X
41		TANDEM INC. CALL — LOCAL COMPLETION TO LINE	1,3	X					+	+		TAN	LOCAL OFFICE CODE	ANY LINE NUMBER													X				+	+	+	X	X	X	X
42		TANDEM COMPLETION TO OUTGOING TRUNK OR TO TRK. TO SUB. I.M.G. TRK. — LOCAL AREA	1,3						+	+		TAN	OUTGOING OFFICE CODE OR SERV. CODE	ANY LINE NUMBER	STA. DIGIT												X	+	+	+	+		X	X	X	X
43		II FOREIGN AREA	3						+	+		TAN	FOREIGN AREA OFFICE CODE	ANY LINE NUMBER	STA. DIGIT											X	+	+	+	+		X	X	X	X
44		FOREIGN AREA	3						+	+		TAN	X	O	X	FOREIGN AREA OFFICE CODE	ANY LINE NUMBER	STA. DIGIT								X	+	+	+	+		X	X	X	X
45																																				
46																																				
47		TOLL INC. CALL — LOCAL COMPLETION TO LINE	2,3	X								TOL	LOCAL OFFICE CODE	ANY LINE NUMBER													X				+	+	+	X	X	X	X
48		TANDEM COMPLETION TO OUTGOING TRUNK — LOCAL AREA	3									TOL	OUTGOING OFFICE CODE	ANY LINE NUMBER	STA. DIGIT												X	+	+	+	+		X	X	X	X
49		FOREIGN AREA	3									TOL	TOLL DIRECTING CODE	FOREIGN AREA OFFICE CODE	ANY LINE NUMBER	STA. DIGIT											X	+	+	+	+		X	X	X	X
50																																				
51		SUB. TO SUB. OR TRK. TO SUB. I.M.G. CALL OR NON-TAN. REV. INC. CALL										NTAN	LOCAL OFFICE CODE	ANY LINE NUMBER													X				+	+	+			X
52		PULSE CONVERSION CALL		X								PC	ANY CODE AND/OR LINE NUMBER																	+					X
53																																				
54																																				
55																																				
56																																				

MARKER TEST, INCOMING CLASS

SWITCHES

LINE NO.	CALLING NUMBER	SENDER GROUP	CAMA POSITION OR "CENTREX" POSITION	INFORMATION DIGIT	CONTROL DIGIT (EFFECTIVE IF 4W KEY IS OPERATED)	MARKER TRANSVERTER SELECTION	ROUTE ADVANCE	OFFICE UNITS	CENTREX POSITION LOOP	
29										
30										
31						X				
32						X				
33						X				
34						X				
35						X				
36						X				
37						X				
38										
39						X				
40						X				
41						X				
42						X				
43						X				
44						X				
45										
46										
47						X				
48						X				
49						X				
50										
51						X				
52						X				
53										
54										
55										
56										

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

NOTE 3 CONT'D:

CLASS	(RE)	(RC) KEY OPERATED
ISSUE 22D OR LATER	TAN (O)	VFO CSTO TAN (IC)
	TAN 1-4	VFT-4, CSTT-4 TAN(IC)-2DT-FVD
	TOL (O)	VFO CSTO TOL (IC)
	TOL 1-4	TCB CST 1-4, TOL (IC)/2DTT/FVDT

4. OPTION "RB" MAKES "MD" RC KEYS 11-15
   OPTION "RC" PROVIDES RING. COMB. 11-15 ON RC1-5 KEYS WITH OTRC KEY OPERATED.
   OPTION "RD" MAKES "MD" VF(0-4) KEYS.
   OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF(0-4) KEYS
   OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS CSGA, CSGB KEYS.

DRAWING ISSUE: 51D (R&D FRM 6SD); 80D

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MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D37A

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D37A

SD-25800-01-D37B

SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

LINE NO			PUSHBUTTON KEYS
LP(0-11)		PROGRESS AND IDENTIFICATION LAMP CONTROL	
NG(A-H)		ALLOTTED NUMBER GROUP SELECTION CONTROL	
	OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"	
AD		AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"	
	-		
DNC		DENIED CODE	
	-		
LCD1		LOCAL CODE 1	
	LCD2	LOCAL CODE 2	
ACD		AREA CODE	
	LOM1	LINE OBSERVING MATCHING 1	
LOMO		LINE OBSERVING MATCHING 0	
	TI2	TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)	
TI1		TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)	
	-		
TI3		TROUBLE INDICATION 3 (CAMA SUSPENSION COMPLETE FREE)	
	-		
ROP		REORDER POSITION	
	CTRC	OVER TEN RINGING COMBINATION	
	-		
	CAMO	CAMA INCOMING TANDEM SUPERVISION	
CAM2		CAMA COMPLETING TANDEM SUPERVISION	
	CAM1	CAMA INCOMING TOLL SUPERVISION	
CAM3		CAMA COMPLETING TOLL SUPERVISION	
	BI1	BILLING INDEXER 1	
BIO		BILLING INDEXER 0	
	ANI	AUTO. NO. IDENT	
CAMA		CAMA	
	VTC	VACANT TERMINATING CODE	
FC		FREE CALL	
	-		
ORCO		ORIGINATING RATE CLASS 0	
	ORC1	ORIGINATING RATE CLASS 1	
ORC2		ORIGINATING RATE CLASS 2	
	CAT	CAMA SENDER TIME OUT	
CA		CALL ABANDONED	
	CAMS	CAMA SENDER CLASS OF TEST	
IMT		CAMA INTERMARKER GROUP TRUNK CLASS OF TEST	
ANY POS		ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION	
TST POS		DIRECTS CAMA TEST CALL TO SIMULATED POSITION	
SEL POS		DIRECTS CAMA TEST CALL TO PARTICUAR CAMA POSITION OPERATOR	
	OP	OUTPULSE	
	-		
	LT3	PRIVATE LINE NET. (PREFIX DIGIT "8")	
2 DTO		TWO DIGIT TRANSLATOR, ORIGINATING CLASS	
	FS	FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)	
NTFS		FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)	
	FG 2	FRAME GROUP 2	
FG 0		FRAME GROUP 0	
FG 1		FRAME GROUP 1	
	TS	TRUNK SELECTION	
NTTS		NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)	
	ATLV	ANI TRANSVERTER LINE VERIFICATION	
OSS		OUTSENDER SELECTION	
	SGB	SENDER GROUP B	
SGA		SENDER GROUP A	
	GPB	ALLOTTER GROUP B	ON TESTS WHERE "X" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED
GPA		ALLOTTER GROUP A	
	RA1	ROUTE ADVANCE ONCE	
RAO		NO ROUTE ADVANCE	
	RA3	ROUTE ADVANCE THREE TIMES	
RA2		ROUTE ADVANCE TWICE	
	RBT	RETURN BUSY TONE (TROUBLE RELEASE)	
TRR		TROUBLE RECORD (REGULAR RELEASE)	
	RLT	OPEN "RL" LEAD	
HLD		HOLD	
	LTI	DIGIT "1" ACCESS CALL	
LT2		ZERO PREFIX PPCS CALL	
	NID	NON-OPERATOR IDENTIFIED PPCS CALL	
TCB		TRUNK CLASS B	
	FVDT	FIFTH DIGIT TRANSLATION	
2DTT		2DT TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY	
	PTR	OPEN "PTR" LEAD	
IOD		OPERATOR IDENTIFIED PPCS CALL	
	PRL	OPEN "PRL" LEAD	
OT		OPEN TRANSMITTING LEADS	
	RLK	OPEN "RLK" LEAD	
LK		OPEN LOCKING GROUND	
	S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2	
S1L		STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1	
	S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4	
S3L		STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3	
	STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY	
RTBL		RECORDER TROUBLE	
	TOF	TRANSLATOR OVERFLOW	
SFAL		STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY	
	TICB	FALSE BATTERY ON "TIC" LEAD	
TICG		FLASE GROUND ON "TIC" LEAD	
	-		
TRO		TRANSLATOR OPERATE	
	5DG	FIVE DIGIT NUMBER NO LETTERED STATION	
4DG		FOUR DIGIT NUMBER NO LETTERED STATION	
	LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS	
LSD		LETTERED STATIONS MORE THAN 10,000 NUMBERS	

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

FIG. 201 A (CONT)

LEVER TYPE KEYS

MASTER TEST CONTROL CIRCUIT (2)

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SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

LINE NO.	
TVT	TRANSVERTER CLASS OF TEST
PTT	PRETRANSLATOR CLASS OF TEST
TVT1	TRANSVERTER TEST NO. (USING AMA RECORDER)
TLV	TRANSLATOR LINE VERIFICATION
SDT2	SENDER TEST NO. 2 (OVERFLOW)
SDT1	SENDER TEST NO. 1 (REGULAR RELEASE)
SDT3	SENDER TEST NO. 3 (DELAYED PULSING)
RMB	RECORDER MAKE BUSY
OFF1	ORIGINATING OFFICE GROUP 1
OFF0	ORIGINATING OFFICE GROUP 0
OFF3	ORIGINATING OFFICE GROUP 3
OFF2	ORIGINATING OFFICE GROUP 2
OFF5	ORIGINATING OFFICE GROUP 5
OFF4	ORIGINATING OFFICE GROUP 4
-	
OBS	OBSERVING (4 LINE ENTRY)
DT	MARKER TEST, DIAL TONE CLASS
ORIG	MARKER TEST, ORIGINATING CLASS
INC	MARKER TEST, INCOMING CLASS
SDT	SENDER TEST CLASS
OR	ORIGINATING REGISTER TEST CLASS
SDR	SENDER TEST CLASS
IR	INCOMING REGISTER TEST CLASS
IMS	INTERMARKER GROUP SENDER TEST CLASS
OGT	OUTGOING TRUNK TEST CLASS
MISC	MISCELLANEOUS TRUNK TEST CLASS
IAO	INTRAOFFICE OR INTERMARKER GROUP TRUNK TEST CLASS
ITDO	INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
ATNT	CENTREX ATTENDANT TRUNK TEST CLASS
ITNP	INCOMING TRUNK - NO PULSING TEST CLASS
MLV	MARKER LINE VERIFICATION
LT	LINE TEST
TTL	TERMINATING TEST LINE
BB	BUSY BACK
KY	CONNECT NUMBER KEYS
KRC	CONNECT NUMBER & RINGING COMBINATION KEYS
-	
TOBS	TRUNK OBSERVING
CAM	SIMULATES GROUND FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
FAD	
HFA	
(CGB) CSGA	CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A" SEE NOTE 1
CSGB	CLASS OF SERVICE RATE GROUP "B"
TTI	TOLL TRANSLATOR, INCOMING CLASS
E	EXTRA THEORETICAL
FAB	FOREIGN AREA TRANSLATOR B
FAA	FOREIGN AREA TRANSLATOR A
STP2	JUNCTOR SEQUENCE STEP, POSITION 2
STP1	JUNCTOR SEQUENCE STEP, POSITION 1
EBH	END OF BLOCK HUNT
PBXH	PBX HUNT
FACD	FOREIGN AREA CUSTOMER DIALING
PTL	TEST PTL TUBE
GT	OPERATE TEST OF MARKER (GT) RELAY
FCG	OPERATE TEST OF MARKER (FCG) RELAY
LGT	LOOP GROUND TEST
TCT	TEST CONTINUITY TUBE
HTR	HEAVY TRAFFIC
TC	TEST CONTINUITY
CON	LOOP CONTINUITY TEST
RV	REVERSE CONTINUITY TEST
LBL	LINE BUSY AT LINE LINK FRAME
PU	OPERATE TEST OF MARKER (PU) RELAY
XLH	CROSSED LINE HOLD MAGNET
LB	LINE BUSY
TR2	SECOND TRIAL
TPS	TRANSFER START LEAD
MF	MULTIFREQUENCY LINE FRAME
MLF	MIXED LINE FRAME
CNR	COIN RETURN
SCN	STUCK COIN
PS	PERMANENT SIGNAL
PD	PARTIAL DIAL
TP	TIP PARTY
PMM	PARTY MISMATCH
11	11 PREFIX
X11	3 DIGIT SERVICE CODE
2DT	TWO DIGIT TANDEM
2DTI	TWO DIGIT TRANSLATOR, INCOMING CLASS
FNB	FREE NUMBER B.
FNA	FREE NUMBER A.
PCD	PULSE CONVERSION DIAL, FIRST SENDER GROUP
PCD1	PULSE CONVERSION DIAL, SECOND SENDER GROUP
THC	THEORETICAL CALL
PHC	PHYSICAL CALL
DCK	LINK DOUBLE CONNECTION
LR	LINK RELEASE
ROT	REORDER TEST
OCN	ODD CONNECTION
RO	REORDER
ND	NO DIGIT
NN	NEITHER NO TEST NOR NO HUNT
NGT	NUMBER GROUP SELECTION (PULL OUT NG (A-H) KEYS AS REQD)
NT	NO TEST
NH	NO HUNT
SPL	SPECIAL
NTC	NO TEST CONNECTOR

SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

FIG 201A (CONT)

LEVER TYPE KEYS (CONT)

MASTER TEST CONTROL CIRCUIT (2)

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FIG. 201A (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

LEVER TYPE KEYS (CONT)

Key	Description	Group
RTO	ORIGINATING REGISTER ROUTE "0"	
RT1	ORIGINATING REGISTER ROUTE "1"	
RT2	ORIGINATING REGISTER ROUTE "2"	
RT3	ORIGINATING REGISTER ROUTE "3"	
4W	4-WIRE	EFFECTIVE IF (4W) KEY IS OPERATED
-		EFFECTIVE IF (4W) KEY IS OPERATED
CONA	NORMAL-TEST (CON) TUBE / OPERATED-TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) AND (TCT) KEYS	EFFECTIVE IF (4W) KEY IS OPERATED
FCGA	OPERATE TEST-MARKER (FCGA)RELAY	EFFECTIVE IF (4W) KEY IS OPERATED
-		EFFECTIVE IF (4W) KEY IS OPERATED
NGPB	NUMBER GROUP "B"	EFFECTIVE IF (4W) KEY IS OPERATED
NGPA	NUMBER GROUP "A"	EFFECTIVE IF (4W) KEY IS OPERATED
LES	GROUND ON LINE LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
NLES	MISSING GROUND ON LINE LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
TES	GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
GESK	FALSE GROUND ON "ESK" LEAD	ECHO SUPPRESSOR CONTROL TESTS
OESK	OPEN "ESK" LEAD	ECHO SUPPRESSOR CONTROL TESTS
OFT1	OFFICE TENS "1"	
OFT2	OFFICE TENS "2"	
TST CNSL	TEST CONSOLE	"CENTREX" TESTS
-		"CENTREX" TESTS
ATC	ATTENDANT CLASS	"CENTREX" TESTS
TRF	TRANSFER CLASS	"CENTREX" TESTS
CDN	LISTED DIRECTORY NUMBER	"CENTREX" TESTS
CGLS	CUSTOMER GROUP LINE SIMULATED	"CENTREX" TESTS
CNTX	CENTREX	"CENTREX" TESTS
-		"CENTREX" TESTS
NFG0 / NFG1 / NFG2	NUMBER GROUP FRAME SELECTION	"CENTREX" TESTS
609	609 CORD BOARD OPERATION	"CENTREX" TESTS
-		"CENTREX" TESTS
TBS SWITCH	TENS BLOCK SCREENING	
TERT SWITCH	TERMINATING TREATMENT	
TBT SWITCH	NUMBER GROUP TENS BLOCK TENS	LINE LINK PULSING
TBU SWITCH	NUMBER GROUP TENS BLOCK UNITS	LINE LINK PULSING
LLP	LINE LINK PULSING	LINE LINK PULSING
NG1K	FIRST NUMBER GROUP USAGE CHECK	LINE LINK PULSING
NTLS	NO TEST LLP LINE CKT SELECTION	LINE LINK PULSING
NG2K	SECOND NUMBER GROUP USAGE CHECK	LINE LINK PULSING
RIP	RESTRICTED INTERCEPT PBX	
-		
ST SEL SWITCH	START LEAD SELECT	CONF CONT
CTAD	CONTROLLED ADVANCE	CONF CONT
STAA	AUTOMATIC ADVANCE START	CONF CONT
-		CONF CONT
IST	INDIVIDUAL START	CONF CONT
STAD	START ADVANCE	CONF CONT
STRC	START RECYCLE	CONF CONT
CDA SWITCH	4 WIRE ROUTE CONTROL DIGIT	
OI1	AIOD OFFICE INDEX "1"	
OI2	AIOD OFFICE INDEX "2"	
PERT	PRE-EMPTION REGISTER TEST	
PEMT	PRE-EMPTION MARKER TEST	
DL3	DELETE 3	
DL6	DELETE 6	
THT1	THOUSANDS DIGIT TRUNK NUMBER	
-		
REC	TROUBLE RECORD	
REP	REPEAT TEST	
RL	RELEASE	
ST	START AND ADVANCE	

LINE NO.	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29
REC					+	+		+	+	+			+	+	+	+	+	+		+	+	+	+	+	+	+		

MASTER TEST CONTROL CIRCUIT ② 6S

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-D37D

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FIG. 2018 - OPERATION OF KEYS FOR SETTING UP TYPICAL TRUNK TESTS

SYMBOLS USED:

X FOR THE TEST SHOWN ON ANY HORIZONTAL LINE. EACH "X" INDICATES THAT ONE KEY, BUTTON OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.

\+ FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "+" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS. ANY APPROPRIATE COMBINATION OF KEYS MARKED + MAY BE OPERATED.

0,* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED * AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "0" MUST BE OPERATED.

NOTES:

1. FOR 2 DIGIT TRANSLATION OF 8X CODES WITH TANDEM OPERATION OPERATE (2DT) KEY INSTEAD OF BUTTON ON (IC) KEY. FOR NON TANDEM OPERATION (INCOMING CLASS) OPERATE (2DTI) KEY. SET 8X CODES ON (A) & (B) KEYS FOLLOWED BY NUMERICAL DIGITS ON SUCCESSIVE KEYS.
2. FOR TOLL TRANSLATION WITH INCOMING CLASS, OPERATE (TTI) KEY INSTEAD OF BUTTON ON (IC) KEY.
3. (SEE BELOW)

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF 11X SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3-DIGIT CODE AREA.

SWITCHES

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED	SEE NOTE	INC TRK CLASS OR RECORDER NO. (ITC & RN)	LINE LINK FRAME TENS (FT)	LINE LINK FRAME UNITS (FU)	VERTICAL GROUP (VG)	HORIZONTAL GROUP (HG)	VERT FILE T (SEE NOTE 3) VERT FILE (CL TOM) (VF)	CL OF SERV TENS (CL TOM SEE NOTE 3) (CST)	CLASS OF SERVICE UNITS (CSU)	INCOMING CLASS OF CALL (IC)	A	B	C	D	E	F	G	H	J	K	L	RINGING COMBINATION (RC) CRU	RING COMB. RATE TREATMENT (SEE NOTE 3)	TRUNK LINK FRAME SELECTION (FS)	TRUNK OR ORIGINATING REGISTER SELECTION (TS)	OUTG SENDER SELECTION (OS)	CHANNEL SELECTION (CH)	JUNCTOR SEQUENCE SELECTION (JSQ)	SLEEVE (S)	TOM TRK NUMBS OR NSS BILLING INDEX (MT & MB)	TOM TRK TENS OR CODE POSITION (TT & CP)	TANDEM TRUNK UNITS (UT)	CALLING NUMBER (CN (A-G) SWITCHES)	SENDER GROUP (SG SWITCH)	CAMA POSITION OR CENTREX POSITION (POS SWITCH)	INFORMATION DIGIT (CRX SWITCH)	CONTROL DIGIT (EFFECTIVE IF (4-W) KEY IS OPERATED) (CD SWITCH)	MARKER TRANSVERTER SELECTION (MT SWITCH)	ROUTE ADVANCE (RA SWITCH)	OFFICE UNITS (OFU SWITCH)	CENTREX POSITION LOOP (POS LOOP SWITCH)	LINE NO.
57																																										57
58																																										58
59																																										59
60																																										60
61	OUTGOING TRUNK TESTS	OUTGOING OR SUB. TO TRK. IMG. TRK. (TT RELAY OPR.)								X	X		APPROPRIATE OFFICE CODE											X	X	X	X	+															61
62		TANDEM OR INTERTOLL OUTGOING TRK. (TT AND TM RELAYS OPR.)	1						+	+		TOL TAN FVD	DIRECTING AND OFFICE CODES AS REQUIRED												X	X	+															62
63		OUTGOING TRK. — SET UP								X	X		APPROPRIATE OFFICE CODE											X	X	X	X	+															63
64		TANDEM OR INTERTOLL OUTGOING TRK. — REORDER	1						+	+		TOL TAN FVD	APPROPRIATE OFFICE CODE												X	X	X	+															64
65																																										65
66	INTERMARKER GRP TRK	SUB. TO SUB. IMG. TRK. — DIRECT TO TERMINATING TEST LINE IN CALLED MARKER GROUP — CHARGE NO. RI CODE								X	X		INTER OFFICE CODE											X	X	X	X	+															66
67		FREE NO. OR CHARGE NO. WITH OTHER RINGING CODES								X	X		INTER OFFICE CODE	LINE NO. AS REQ.										X	X	X	X	+															67
68		TRK. TO SUB. IMG. TRK. — CHARGE NO. RI CODE	1, 2						+	+		TOL TAN FVD	INTER OFFICE CODE													X	X	+															68
69		FREE NO. OR CHARGE NO. WITH OTHER RINGING CODES	1, 2						+	+		TOL TAN FVD	INTER OFFICE CODE	LINE NO. AS REQ.												X	X	+															69
70																																										70
71	INTRA OFFICE TRK.	DIRECT TO TERMINATING TEST LINE — CHARGE NO.								X	X		INTRA OFFICE CODE											X	X	X	X	+															71
72		FREE NO.								X	X		INTRA OFFICE CODE	TERMINATING TEST LINE-FREE NUMBER										X	X	X	X	+															72
73																																										73
74																																										74
75																																										75
76	INCOMING TRK IN DISTANCE OFFICE	INCOMING TRUNK IN DISTANT OFFICE — DIRECT TO ANY LINE								X	X		OUTGOING OFFICE CODE	ANY LINE NUMBER										X	X	X	X	+															76
77		DIRECT TO INCOMING TRUNK TEST LINE								X	X		OUTGOING OFFICE CODE											X	X	X	X	+															77
78		DIRECT TO BUSY LINE								X	X		OUTGOING OFFICE CODE											X	X	X	X	+															78
79																																										79
80																																										80
81	INCOMING TRK IN DISTANT OFFICE (ACCESS THROUGH TAN OUTG. TRK.)	DIRECT TO ANY LINE	1						+	+		TAN FVD	DIRECTING CODE, OFFICE CODE AND LINE NO. AS REQ.													X	X	+															81
82		DIRECT TO INCOMING TRUNK TEST LINE	1						+	+		TAN FVD	OFFICE CODE AS REQ.													X	X	+															82
83		DIRECT TO BUSY LINE	1						+	+		TAN FVD	OFFICE CODE AS REQ.													X	X	+															83
84																																										84

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

NOTES (CONT'D):

3. OPTION "RB" MAKES "MD" RC KEYS 11-15.
   OPTION "RC" PROVIDES RING. COMB. 11-15 ON RC(1-5) KEYS WITH OTRC KEY OPERATED.
   OPTION "RD" MAKES "MD" VF(0-4) KEYS.
   OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF(0-4) KEYS.
   OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS CSGA,CSGB KEYS.

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MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG 2018 (CONT)

84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	LINE NO.		
SEE PRECEEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																														
																												LP (0-11)	PROGRESS AND IDENTIFICATION LAMP CONTROL	PUSHBUTTON KEYS
																												NG (A-H)	ALLOTTED NUMBER GROUP SELECTION CONTROL	
																												OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"	
																												AD	AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"	
																												-		
																												DNC	DENIED CODE	
																												-		
																												LCD1	LOCAL CODE 1	
																												LCD2	LOCAL CODE 2	
																												ACD	AREA CODE	
																												LOM1	LINE OBSERVING MATCHING 1	
																												LOMO	LINE OBSERVING MATCHING 0	
																												TI2	TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)	
																												TI1	TROUBLE INDICATION 1 (SENDER REQUESTS TBS RECORD)	
																												-		
																												TI3	TROUBLE INDICATION 3 (CAMA SUSPENSION COMPLETE FREE)	
																												-		
																												ROP	REORDER POSITION	
												X	X															OTRC	OVER TEN RINGING COMBINATION	
																												-		
																												CAMO	CAMA INCOMING TANDEM SUPERVISION	
																												CAM2	CAMA COMPLETING TANDEM SUPERVISION	
																												CAM1	CAMA INCOMING TOLL SUPERVISION	
																												CAM3	CAMA COMPLETING TOLL SUPERVISION	
																												BI1	BILLING INDEXER 1	
																												BIO	BILLING INDEXER 0	
																												ANI	AUTO. NO. IDENT	
																												CAMA	CAMA	
																												VTC	VACANT TERMINATING CODE	
																												FC	FREE CALL	
																												-		
																												ORC0	ORIGINATING RATE CLASS 0	
																												ORC1	ORIGINATING RATE CLASS 1	
																												ORC2	ORIGINATING RATE CLASS 2	
																												CAT	CAMA SENDER TIME OUT	
																												CA	CALL ABANDONED	
																												CAMS	CAMA SENDER CLASS OF TEST	
																												IMT	CAMA INTERMARKER GROUP TRUNK CLASS OF TEST	
																												ANY POS	ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION	
																												TST POS	DIRECTS CAMA TEST CALL TO SIMULATED POSITION	
																												SEL POS	DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR	
																												OP	OUTPULSE	
																												-		
																												LT3	PRIVATE LINE NET. (PREFIX DIGIT "8")	
																												2 DTO	TWO DIGIT TRANSLATOR, ORIGINATING CLASS	
																												FS	FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)	
x	x	x			x	x	x					x	x		x	x	x	x		x	x	x	x					NTFS	FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)	
x	x	x			x	x	x					x	x		x	x	x	x		x	x	x	x					FG2	FRAME GROUP 2	
																												FG0	FRAME GROUP 0	
																												FG1	FRAME GROUP 1	
																												TS	TRUNK SELECTION	
x	x	x			x	x	x					x	x		x	x	x	x		x	x	x	x					NTTS	NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)	
																												ATLV	ANI TRANSVERTER LINE VERIFICATION	
+	+	+			+	+	+					+	+		+	+	+	+		+	+	+	+					OSS	OUTSENDER SELECTION	
+	+	+			+	+	+					+	+		+	+	+	+		+	+	+	+					SGB	SENDER GROUP B	
																												SGA	SENDER GROUP A	
x	x	x			x	x	x					x	x		x	x	x	x		x	x	x	x					GPB	ALLOTTER GROUP B	ON TESTS WHERE "X" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED
																												GPA	ALLOTTER GROUP A	
																												RA1	ROUTE ADVANCE ONCE	
x	x	x			x	x	x					x	x		x	x	x	x		x	x	x	x					RA0	NO ROUTE ADVANCE	
																												RA3	ROUTE ADVANCE THREE TIMES	
																												RA2	ROUTE ADVANCE TWICE	
																												RBT	RETURN BUSY TONE (TROUBLE RELEASE)	
																												TRR	TROUBLE RECORD (REGULAR RELEASE)	
																												RLT	OPEN "RL" LEAD	
																												HLD	HOLD	
																												LT1	DIGIT "1" ACCESS CALL	
																												LT2	ZERO PREFIX PPCS CALL	
																												NID	NON-OPERATOR IDENTIFIED PPCS CALL	
																												TCB	TRUNK CLASS B	
																												FVDT	FIFTH DIGIT TRANSLATOR	
																												2DTT	2UT TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY)	
																												PTR	OPEN "PTR" LEAD	
																												IOD	OPERATOR IDENTIFIED PPCS CALL	
																												PRL	OPEN "PRL" LEAD	
																												OT	OPEN TRANSMITTING LEADS	
																												RLK	OPEN "RLK" LEAD	
																												LK	OPEN LOCKING GROUND	
																												S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2	
																												S1L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1	
																												S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4	
																												S3L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3	
																												STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY	
																												RTBL	RECORDER TROUBLE	
																												TOF	TRANSLATOR OVERFLOW	
																												SFAL	STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY	
																												TICB	FALSE BATTERY ON "TIC" LEAD	
																												TICG	FALSE GROUND ON "TIC" LEAD	
																												-		
																												TRO	TRANSLATOR OPERATE	
																												5DG	FIVE DIGIT NUMBER NO LETTERED STATION	
																												4DG	FOUR DIGIT NUMBER NO LETTERED STATION	
																												LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS	
																												LSD	LETTERED STATIONS MORE THAN 10,000 NUMBERS	
SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																														
84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	LINE NO.		

LEVER TYPE KEYS

MASTER TEST CONTROL CIRCUIT (2)

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FIG. 201 B (CONT.)

LEVER TYPE KEYS (CONT.)

84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	LINE NO.	
SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																													
																												TVT	TRANSVERTER CLASS OF TEST
																												PTT	PRETRANSLATOR CLASS OF TEST
																												TVT1	TRANSVERTER TEST NO. 1 (USING AMA RECORDER)
																												TLV	TRANSLATOR LINE VERIFICATION
																												SDT2	SENDER TEST NO. 2 (OVERFLOW)
																												SDT1	SENDER TEST NO. 1 (REGULAR RELEASE)
																												SDT3	SENDER TEST NO. 3 (DELAYED PULSING)
																												RMB	RECORDER MAKE BUSY
																												OFF1	ORIGINATING OFFICE GROUP 1
																												OFF0	ORIGINATING OFFICE GROUP 0
																												OFF3	ORIGINATING OFFICE GROUP 3
																												OFF2	ORIGINATING OFFICE GROUP 2
																												OFF5	ORIGINATING OFFICE GROUP 5
																												OFF4	ORIGINATING OFFICE GROUP 4
																												-	
																												OBS	OBSERVING (4 LINE ENTRY)
																												DT	MARKER TEST DIAL TONE CLASS
																												ORIG	MARKER TEST, ORIGINATING CLASS
																												INC	MARKER TEST, INCOMING CLASS
																												SDT	SENDER TEST CLASS
																												OR	ORIGINATING REGISTER TEST CLASS
																												SDR	SENDER TEST CLASS
																												IR	INCOMING REGISTER TEST CLASS
																												IMS	INTERMARKER GROUP SENDER TEST CLASS
																				x	x	x	x					OGT	OUTGOING TRUNK TEST CLASS
																												MISC	MISCELLANEOUS TRUNK TEST CLASS
										x	x			x	x	x	x											IAO	INTRAOFFICE OR INTERMARKER GROUP TRUNK TEST CLASS
x	x	x			x	x	x																					ITDO	INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
																												ATNT	CENTREX ATTENDANT TRUNK TEST CLASS
																												ITNP	INCOMING TRUNK-NO PULSING TEST CLASS
																												MLV	MARKER LINE VERIFICATION
		x				x						x			x		x		x	x			x					LT	LINE TEST
																												TTL	TERMINATING TEST LINE
	x				x							x			x		x		x	x			x					BB	BUSY BACK
x						x																						KY	CONNECT NUMBER KEYS
		x					x						x		x								x					KRC	CONNECT NUMBER & RINGING COMBINATION KEYS
																												-	
																							⊕					TOBS	TRUNK OBSERVING
																							+					CAMS	SIMULATES GROUND FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
																												FAD	
																												HFA	
						x	x	x			x	x		x	x	x	x				x			x				(CGB) CSGA	CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A" SEE NOTE 1
						x	x	x			x	x			x	x					x			x				CSGB	CLASS OF SERVICE RATE GROUP "B"
																												TTI	TOLL TRANSLATOR, INCOMING CLASS
																												E	EXTRA THEORETICAL
																												FAB	FOREIGN AREA TRANSLATOR B
																												FAA	FOREIGN AREA TRANSLATOR A
																												STP2	JUNCTOR SEQUENCE STEP, POSITION 2
																												STP1	JUNCTOR SEQUENCE STEP, POSITION 1
																												EBH	END OF BLOCK HUNT
																												PBXH	PBX HUNT
						+	+	+													+			+				FACD	FOREIGN AREA CUSTOMER DIALING
																												PTL	TEST PTL TUBE
																												GT	OPERATE TEST OF MARKER (GT) RELAY
																												FCG	OPERATE TEST OF MARKER (FCG) RELAY
																												LGT	LOOP GROUND TEST
																												TCT	TEST CONTINUITY TUBE
																												HTR	HEAVY TRAFFIC
																												TC	TEST CONTINUITY
																												CCN	LOOP CONTINUITY TEST
																												RV	REVERSE CONTINUITY TEST
																												LRL	LINE BUSY AT LINE LINK FRAME
																												PU	OPERATE TEST OF MARKER (PU) RELAY
																												XLH	CROSSED LINE HOLD MAGNET
																												LB	LINE BUSY
																												TR2	SECOND TRIAL
																												TRS	TRANSFER START LEAD
																												MF	MULTIFREQUENCY LINE FRAME
																												MLF	MIXED LINE FRAME
																												CNR	COIN RETURN
																												SCN	STUCK COIN
																												PS	PERMANENT SIGNAL
																												PD	PARTIAL DIAL
												+	+											+				TP	TIP PARTY
																												PMM	PARTY MISMATCH
																												11	11 PREFIX
																												X11	3 DIGIT SERVICE CODE
																												2DT	TWO DIGIT TANDEM
																												2DTI	TWO DIGIT TRANSLATOR, INCOMING CLASS
																												FNB	FREE NUMBER B
																												FNA	FREE NUMBER A
																												PCD	PULSE CONVERSION DIAL, FIRST SENDER GROUP
																												PCD1	PULSE CONVERSION DIAL, SECOND SENDER GROUP
																												HC	THEORETICAL CALL
																												PHC	PHYSICAL CALL
																												DCK	LINK DOUBLE CONNECTION
																												LR	LINE RELEASE
																				x	x							RDT	RECORDER TEST
																												DCN	ODD CONNECTION
																												RD	RECORDER
																												ND	NO DIGIT
																												NH	NEITHER NO TEST NOR NO HUNT
																												NGT	NUMBER GROUP SELECTION (PULL OUT NG A-H) KEYS AS REQD)
																												NT	NO TEST
																												NH	NO HUNT
																												SPL	SPECIAL
																												NTC	NO TEST CONNECTOR
SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																													
84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	LINE NO.	

MASTER TEST CONTROL CIRCUIT (2)

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FIG. 201B (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

LINE NO.		
	RTO	ORIGINATING REGISTER ROUTE "0"
	RT1	ORIGINATING REGISTER ROUTE "1"
	RT2	ORIGINATING REGISTER ROUTE "2"
	RT3	ORIGINATING REGISTER ROUTE "3"
	4W	4-WIRE
	-	
	CONA	NORMAL-TEST (CON) TUBE OPERATED-TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) & (TCT) KEYS
	FCGA	OPERATE TEST-MARKER (FCGA) RELAY
	-	
	NGPB	NUMBER GROUP "B"
	NGPA	NUMBER GROUP "A"
	LES	GROUND ON LINE LINK "ES" LEAD
	NLES	MISSING GROUND ON LINE LINK "ES" LEAD
	TES	GROUND ON TRUNK LINK "ES" LEAD
	NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD
	GESK	FALSE GROUND ON "ESK" LEAD
	OESK	OPEN "ESK" LEAD
	OFT1	OFFICE TENS "1"
	OFT2	OFFICE TENS "2"
	TST CNSL	TEST CONSOLE
	-	
	ATC	ATTENDANT CLASS
	TRF	TRANSFER CLASS
	CDN	LISTED DIRECTORY NUMBER
	CGLS	CUSTOMER GROUP LINE SIMULATED
	CNTX	CENTREX
	-	
	NFG0 / NFG1 / NFG2	NUMBER GROUP FRAME SELECTION
	608	608 CORD BOARD OPERATION
	-	
	CDA SWITCH	4 WIRE ROUTE CONTROL DIGIT
	TBS SWITCH	TENS BLOCK SCREENING
	TERT SWITCH	TERMINATING TREATMENT
	TBT SWITCH	NUMBER GROUP TENS BLOCK TENS
	TBU SWITCH	NUMBER GROUP TENS BLOCK UNITS
	LLP	LINE LINK PULSING
	NG1K	FIRST NUMBER GROUP USAGE CHECK
	NTLS	NO TEST LLP LINE CKT SELECTION
	NG2K	SECOND NUMBER GROUP USAGE CHECK
	R1P	RESTRICTED INTERCEPT PBX
	-	
	ST SEL SWITCH	START LEAD SELECT
	CTAD	CONTROLLED ADVANCE
	STAA	AUTOMATIC ADVANCE START
	-	
	IST	INDIVIDUAL START
	STAD	START ADVANCE
	STRC	START RECYCLE
	OI1	AIOD OFFICE INDEX "1"
	OI2	AIOD OFFICE INDEX "2"
	PERT	PRE-EMPTION REGISTER TEST
	PEMT	PRE-EMPTION MARKER TEST
	DL3	DELETE 3
	DL6	DELETE 6
	THT1	THOUSAND DIGIT TRUNK NUMBER
	-	
	REC	TROUBLE RECORD
	REP	REPEAT TEST
	RL	RELEASE
	ST	START AND ADVANCE

84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 LINE NO.

EFFECTIVE IF (4W) KEY IS OPERATED

ECHO SUPPRESSOR CONTROL TESTS

CENTREX TESTS

LINE LINK PULSING

CONF CONT

LEVER TYPE KEYS (CONT)

MASTER TEST CONTROL CIRCUIT (2)

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FIG. 2018 (CONT)

SYMBOLS USED:

X FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY, BUTTON OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.

+ FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "+" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS. ANY APPROPRIATE COMBINATION OF KEYS MARKED + MAY BE OPERATED

0,* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "0" MUST BE OPERATED.

NOTES:

1. FOR 2 DIGIT TRANSLATION OF 8X CODES WITH TANDEM OPERATION OPERATE (2DT) KEY INSTEAD OF BUTTON ON (IC) KEY. FOR NON TANDEM OPERATION (INCOMING CLASS) OPERATE (2DTI) KEY. SET 8X CODES ON (A) & (B) KEYS FOLLOWED BY NUMERICAL DIGITS ON SUCCESSIVE KEYS.

2. FOR TOLL TRANSLATION WITH INCOMING CLASS, OPERATE (TTI) KEY INSTEAD OF BUTTON ON (IC) KEY.

?. (SEE BELOW)

*

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF IIX SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3-DIGIT CODE AREA.

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED		SEE NOTE	ITC & RN	FT	FU	VG	HG	VF	CST	CSU	IC	A	B	C	D	E	F	G	H	J	K	L	RC	(RC) CRU	FS	TS	OS	CH	JSQ	S	HT MB	TT CB	UT	CN (A-6) SWITCHES	SG SWITCH	POS SWITCH	CRX SWITCH	CD SWITCH	MT SWITCH	RA SWITCH	OFU SWITCH	POS LOOP SWITCH	LINE NO.
85																																													85
86		OUTGOING TRUNK AND INCOMING TRUNK IN DISTANT OFFICE	DIRECT TO ANY LINE IN CALLED OFFICE								X	X		APPROPRIATE OFFICE CODE			ANY LINE NUMBER				STA. DIGIT					X	X	X	+																86
87			DIRECT TO INC. TRK. TST. LINE IN CALLED OFFICE								X	X		APPROPRIATE OFFICE CODE												X	X	X	+																87
88			DIRECT TO BUSY LINE IN CALLED OFFICE								X	X		APPROPRIATE OFFICE CODE												X	X	X	+																88
89																																													89
90		INTRA OFFICE TRK. - DIRECT TO ANY LINE									X	X		INTRA OFFICE CODE			ANY LINE NUMBER									X	X	X																	90
91																																													91
92		REC. COMP. SPEC. SERVICE, VAC. CODE, TEST DESK, REPAIR, INFORMATION, ANNOUNCEMENT, ETC.									X	X		APPROPRIATE OFFICE CODE												X	X	X																	92
93		TONE TRUNK	NO SUCH NUMBER TONE								X	X														X	X	X																93
94			BUSY TONE								X	X		INTRA OFFICE CODE												X	X	X																	94
95			OVERFLOW TONE								X	X		NON-ALLOTTED CODE WITHOUT ALT. ROUTE												X	X	X																	95
96		PERMANENT SIGNAL HOLDING TRUNK									X	X														X	X	X																	96
97		COMMON OVERFLOW TRUNK	OVERFLOW TONE								X	X		NON-ALLOT CD W/ OUT ALT. ROUTE												X	X	X																	97
98			PERMANENT SIGNAL TONE								X	X														X	X	X																	98
99		REVERTING RINGING TRUNK									X	X		INTRA OFFICE CODE			ORIG. TEST LINE NUMBER									X	X	X																	99
100		STATION RINGER TEST TRUNK									X	X		STATION RINGER OFFICE CODE			ORIG. TEST LINE NUMBER									X	X	X																	100
101		STUCK COIN TRUNK									COIN CLASS															X	X	X																	101
102		TANDEM OR INTERTOLL OUTGOING TRK. AND INCOMING TRK. IN DISTANT OFFICE OR TRK. TO SUB. IMG. TRK. (TT REL NORM, TM REL. OPR.)	DIRECT TO ANY LINE IN CALLED OFFICE	1,2						+	+		TOL TAN FVD	DIRECTING CODE, OFFICE CODE, AND LINE NO. AS REQD														X	X	+															X	102
103			DIRECT TO INC. TRK. TST. LINE IN CALLED OFFICE	1,2						+	+		TOL TAN FVD	OFFICE CODE AS REQ.														X	X	+															X	103
104			DIRECT TO BUSY LINE IN CALLED OFFICE	1,2						+	+		TOL TAN FVD	OFFICE CODE AS REQ.														X	X	+															X	104
105																																													105
106		INFORMATION, REPAIR, OFFICIAL PBX, ETC. (TM REL. OPR.)								+	+		TOL TAN FVD	OFFICE CODE AS REQ.														X	X	+															X	106
107		SUB. TO SUB. IMG. TRUNK	SET UP								X	X		INTER OFFICE CODE												X	X	X	+															X	107
108		TRK. TO SUB. IMG. TRUNK	REORDER	1,2						+	+		TOL TAN FVD	INTER OFFICE CODE			PERM. OVERFLOW NUMBER											X	X	+															X	108
109		SUB. TO TRK. I.M.G. TRUNK									X	X		APPROPRIATE OFFICE CODE												X	X	X	+															X	109
110																																													110
111																																													111
112																																													112

MISCELLANEOUS TRUNK TESTS

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

NOTES (CONT'D)

3. OPTION "RB" MAKES "MD" RC(11-15) KEYS.
OPTION "RC" PROVIDES RING.COMB. 11-15 ON RC 1-5 KEYS WITH OTRC KEY OPERATED.
OPTION "RD" MAKES "MD" VF (0-4) KEYS.
OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF (0-4) KEYS.
OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS CSGA,CSGB KEYS.

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MASTER TEST CONTROL CIRCUIT (2)

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FIG. 2018 (CONT)

SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	LINE NO.		
SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																														
																												LP (0-11)	PROGRESS AND IDENTIFICATION LAMP CONTROL	PUSHBUTTON KEYS
																												NG (A-H)	ALLOTTED NUMBER GROUP SELECTION CONTROL	
																												OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"	
																												AD	AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"	
																												-		
																												DNC	DENIED CODE	
																												-		
																												LCD1	LOCAL CODE 1	
																												LCD2	LOCAL CODE 2	
																												ACD	AREA CODE	
																												LOM1	LINE OBSERVING MATCHING 1	
																												LOMO	LINE OBSERVING MATCHING 0	
																												TI2	TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)	
																												TI1	TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)	
																												-		
																												TI3	TROUBLE INDICATION 3 (CAMA SUSPENSION COMPLETE FREE)	
																												-		
																												ROP	REORDER POSITION	
														X	X													OTRC	OVER TEN RINGING COMBINATION	
																												-		
																												CAMO	CAMA INCOMING TANDEM SUPERVISION	
																												CAM2	CAMA COMPLETING TANDEM SUPERVISION	
																												CAM1	CAMA INCOMING TOLL SUPERVISION	
																												CAM3	CAMA COMPLETING TOLL SUPERVISION	
																												BI1	BILLING INDEXER 1	
																												BIO	BILLING INDEXER 0	
																												ANI	AUTO. NO. IDENT	
																												CAMA	CAMA	
																												VTC	VACANT TERMINATING CODE	
																												FC	FREE CALL	
																												-		
																												ORC0	ORIGINATING RATE CLASS 0	
																												ORC1	ORIGINATING RATE CLASS 1	
																												ORC2	ORIGINATING RATE CLASS 2	
																												CAT	CAMA SENDER TIME OUT	
																												CA	CALL ABANDONED	
																												CAMS	CAMA SENDER CLASS OF TEST	
																												IMT	CAMA INTERMARKER GROUP TRUNK CLASS OF TEST	
																												ANY POS	ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION	
																												TST POS	DIRECTS CAMA TEST CALL TO SIMULATED POSITION	
																												SEL POS	DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR	
																												OP	OUTPULSE	
																												-		
																												LT3	PRIVATE LINE NET. (PREFIX DIGIT "8")	
																												2 DTO	TWO DIGIT TRANSLATOR, ORIGINATING CLASS	
																												FS	FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)	
	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	NTFS	FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)	
	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	FG2	FRAME GROUP 2	
																												FGO	FRAME GROUP 0	
																												FG1	FRAME GROUP 1	
	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	TS	TRUNK SELECTION	
	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	NTTS	NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)	
	+	+	+			+	+	+																	+	+	+	ATLV	ANI TRANSVERTER LINE VERIFICATION	
	+	+	+	—		+	+	+	—	—	—	—	—	—	—	—	—	—	—	—	—		—		+	+	+	OSS	OUTSENDER SELECTION	
																												SGB	SENDER GROUP B	
																												SGA	SENDER GROUP A	
	X	X	X	X	—	X	X	X	—	—	X	—	—	—	—	X	—	X	—	X	—		X		X	X	X	GPB	ALLOTTER GROUP B	ON TESTS WHERE "X" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED
																												GPA	ALLOTTER GROUP A	
														X		X												RA1	ROUTE ADVANCE ONCE	
	X	X	X	X		X	X	X	X	X					X			X	X		X		X		X	X	X	RA0	NO ROUTE ADVANCE	
																X												RA3	ROUTE ADVANCE THREE TIMES	
																												RA2	ROUTE ADVANCE TWICE	
																												RBT	RETURN BUSY TONE (TROUBLE RELEASE)	
																												TRR	TROUBLE RECORD (REGULAR RELEASE)	
																												RLT	OPEN "RL" LEAD	
																												HLD	HOLD	
																												LTI	DIGIT "1" ACCESS CALL	
																												LT2	ZERO PREFIX PPCS CALL	
																												NID	NON-OPERATOR IDENTIFIED PPCS CALL	
																												TCB	TRUNK CLASS B	
																												FVDT	FIFTH DIGIT TRANSLATION	
																												2DTT	2DT TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY)	
																												PTR	OPEN "PTR" LEAD	
																												IOD	OPERATOR IDENTIFIED PPCS CALL	
																												PRL	OPEN "PRL" LEAD	
																												OT	OPEN TRANSMITTING LEADS	
																												RLK	OPEN "RLK" LEAD	
																												LK	OPEN LOCKING GROUND	
																												S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2	
																												S1L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1	
																												S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4	
																												S3L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3	
																												STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY	
																												RTBL	RECORDER TROUBLE	
																												TOF	TRANSLATOR OVERFLOW	
																												SFAL	STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY	
																												TICB	FALSE BATTERY ON "TIC" LEAD	
																												TICG	FALSE GROUND ON "TIC" LEAD	
																												-		
																												TRO	TRANSLATOR OPERATE	
																												5DG	FIVE DIGIT NUMBER NO LETTERED STATION	
																												4DG	FOUR DIGIT NUMBER NO LETTERED STATION	
																												LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS	
																												LSD	LETTERED STATIONS MORE THAN 10,000 NUMBERS	
SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																														
112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	LINE NO.		

LEVER TYPE KEYS

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG. 201B (CONT)

LEVER TYPE KEYS (CONT)

SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	LINE NO.	
																												TVT	TRANSVERTER CLASS OF TEST
																												PTT	PRETRANSLATOR CLASS OF TEST
																												TVT1	TRANSVERTER TEST NO. 1 (USING AMA RECORDER)
																												TLV	TRANSLATOR LINE VERIFICATION
																												SDT2	SENDER TEST NO. 2 (OVERFLOW)
																												SDT1	SENDER TEST NO. 1 (REGULAR RELEASE)
																												SDT3	SENDER TEST NO. 3 (DELAYED PULSING)
																												RMB	RECORDER MAKE BUSY
																												OFF1	ORIGINATING OFFICE GROUP 1
																												OFF0	ORIGINATING OFFICE GROUP 0
																												OFF3	ORIGINATING OFFICE GROUP 3
																												OFF2	ORIGINATING OFFICE GROUP 2
																												OFF5	ORIGINATING OFFICE GROUP 5
																												OFF4	ORIGINATING OFFICE GROUP 4
																												-	
																												OBS	OBSERVING (4 LINE ENTRY)
																												DT	MARKER TEST, DIAL TONE CLASS
																												ORIG	MARKER TEST, ORIGINATING CLASS
																												INC	MARKER TEST, INCOMING CLASS
																												SDT	SENDER TEST CLASS
																												OR	ORIGINATING REGISTER TEST CLASS
																												SDR	SENDER TEST CLASS
																												IR	INCOMING REGISTER TEST CLASS
																												IMS	INTERMARKER GROUP SENDER TEST CLASS
																												OGT	OUTGOING TRUNK TEST CLASS
			×	×	×	×		×	×	×	×	×	×	×	×	×	×	×	×	×		×		×	×	×		MISC	MISCELLANEOUS TRUNK TEST CLASS
																												IAO	INTEROFFICE OR INTERMARKER GROUP TRUNK TEST CLASS
																												ITDO	INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
																												ATNT	CENTREX ATTENDANT TRUNK TEST CLASS
																												ITNP	INCOMING TRUNK - NO PULSING TEST CLASS
																												MLV	MARKER LINE VERIFICATION
			×		×				×						×										×			LT	LINE TEST
			×				×																					TTL	TERMINATING TEST LINE
						×												×						×				BB	BUSY BACK
				×		×				×							×		×		×					×		KY	CONNECT NUMBER KEYS
																×	×											KRC	CONNECT NUMBER & RINGING COMBINATION KEYS
																												-	
																												TOBS	TRUNK OBSERVING
																												CAM	SIMULATES GROUND FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
																												FAD	
																												HFA	
			×		×			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		×	×	×	(CGB) CSGA	CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A" SEE NOTE 1
			×		×			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		×	×	×	CSGB	CLASS OF SERVICE RATE GROUP "B"
																												TTI	TOLL TRANSLATOR, INCOMING CLASS
																												E	EXTRA THEORETICAL
																												FAB	FOREIGN AREA TRANSLATOR B
																												FAA	FOREIGN AREA TRANSLATOR A
																												STP2	JUNCTOR SEQUENCE STEP, POSITION 2
																												STP1	JUNCTOR SEQUENCE STEP, POSITION 1
																												EBH	END OF BLOCK HUNT
																												PBXH	PBX HUNT
																								+	+	+		FACD	FOREIGN AREA CUSTOMER DIALING
																												PTL	TEST PTL TUBE
																												GT	OPERATE TEST OF MARKER (GT) RELAY
																												FCG	OPERATE TEST OF MARKER (FCG) RELAY
																												LGT	LOOP GROUND TEST
																												TCT	TEST CONTINUITY TUBE
																												HTR	HEAVY TRAFFIC
																												TC	TEST CONTINUITY
																												CON	LOOP CONTINUITY TEST
																												RV	REVERSE CONTINUITY TEST
																												LBL	LINE BUSY AT LINE LINK FRAME
																												PU	OPERATE TEST OF MARKER (PU) RELAY
																												XLH	CROSSED LINE HOLD MAGNET
																												LB	LINE BUSY
																												TR2	SECOND TRIAL
																												TRS	TRANSFER START LEAD
																												MF	MULTIFREQUENCY LINE FRAME
																												MLF	MIXED LINE FRAME
																												CNR	COIN RETURN
																												SCN	STUCK COIN
																												PS	PERMANENT SIGNAL
																												PD	PARTIAL DIAL
																												TP	TIP PARTY
																												PMH	PARTY MISMATCH
																												II	II PREFIX
																												XII	3 DIGIT SERVICE CODE
																												2DT	TWO DIGIT TANDEM
																												2DTI	TWO DIGIT TRANSLATOR, INCOMING CLASS
																												FNB	FREE NUMBER B
																												FNA	FREE NUMBER A
																												PCD	PULSE CONVERSION DIAL, FIRST SENDER GROUP
																												PCDI	PULSE CONVERSION DIAL, SECOND SENDER GROUP
																												THC	THEORETICAL CALL
																												PHC	PHYSICAL CALL
																												DCK	LINK DOUBLE CONNECTION
																												LR	LINK RELEASE
			×		×																							ROT	REORDER TEST
																												OCN	ODD CONNECTION
																												RO	REORDER
																												ND	NO DIGIT
																												NN	NEITHER NO TEST NOR NO HUNT
																												NGT	NUMBER GROUP SELECTION (PULL OUT NG (A-H) KEYS AS REQD)
																												NT	NO TEST
																												NH	NO HUNT
																												SPL	SPECIAL
																												NTC	NO TEST CONNECTOR

SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	LINE NO.

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT (2)

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FIG. 201 B (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

KEY	FUNCTION	GROUP
RTO	ORIGINATING REGISTER ROUTE "0"	
RT1	ORIGINATING REGISTER ROUTE "1"	
RT2	ORIGINATING REGISTER ROUTE "2"	
RT3	ORIGINATING REGISTER ROUTE "3"	
4W	4-WIRE	EFFECTIVE IF (4W) KEY IS OPERATED
-		EFFECTIVE IF (4W) KEY IS OPERATED
CONA	NORMAL TEST (CON) TUBE / OPERATED TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) AND (TCT) KEYS	EFFECTIVE IF (4W) KEY IS OPERATED
FCGA	OPERATE TEST-MARKER (FCGA) RELAY	EFFECTIVE IF (4W) KEY IS OPERATED
-		EFFECTIVE IF (4W) KEY IS OPERATED
NGPB	NUMBER GROUP "B"	EFFECTIVE IF (4W) KEY IS OPERATED
NGPA	NUMBER GROUP "A"	EFFECTIVE IF (4W) KEY IS OPERATED
LES	GROUND ON LINE LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
NLES	MISSING GROUND ON LINE LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
TES	GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TESTS
GESK	FALSE GROUND ON "ESK" LEAD	ECHO SUPPRESSOR CONTROL TESTS
OESK	OPEN "ESK" LEAD	ECHO SUPPRESSOR CONTROL TESTS
OFT1	OFFICE TENS "1"	
OFT2	OFFICE TENS "2"	
TST CNSL	TEST CONSOLE	CENTREX TESTS
-		CENTREX TESTS
ATC	ATTENDANT CLASS	CENTREX TESTS
TRF	TRANSFER CLASS	CENTREX TESTS
CDN	LISTED DIRECTORY NUMBER	CENTREX TESTS
CGLS	CUSTOMER GROUP LINE SIMULATED	CENTREX TESTS
CNTX	CENTREX	CENTREX TESTS
-		CENTREX TESTS
NFG0 / NFG1 / NFG2	NUMBER GROUP FRAME SELECTION	CENTREX TESTS
608	608 CORD BOARD OPERATION	CENTREX TESTS
-		CENTREX TESTS
CDA SW	4 WIRE ROUTE CONTROL DIGIT	
TBS SW	TENS BLOCK SCREENING	
TERT SW	TERMINATING TREATMENT	
TBT SW	NUMBER GROUP TENS BLOCK TENS	LINE LINK PULSING
TBU SW	NUMBER GROUP TENS BLOCK UNITS	LINE LINK PULSING
LLP	LINE LINK PULSING	LINE LINK PULSING
NG1K	FIRST NUMBER GROUP USAGE CHECK	LINE LINK PULSING
NTLS	NO TEST LLP LINE CKT SELECTION	LINE LINK PULSING
NG2K	SECOND NUMBER GROUP USAGE CHECK	LINE LINK PULSING
RIP	RESTRICTED INTERCEPT PBX	
-		
ST SEL SWITCH	START LEAD SELECT	CONF CONT
CTAD	CONTROLLED ADVANCE	CONF CONT
STAA	AUTOMATIC ADVANCE START	CONF CONT
-		CONF CONT
IST	INDIVIDUAL START	CONF CONT
STAD	START ADVANCE	CONF CONT
TRC	START RECYCLE	CONF CONT
PERT	PRE-EMPTION REGISTER TEST	
PEMT	PRE-EMPTION MARKER TEST	
DL3	DELETE 3	
DL6	DELETE 6	
OI1	AIOD OFFICE INDEX "1"	
OI2	AIOD OFFICE INDEX "2"	
THT1	THOUSANDS DIGIT TRUNK NUMBER	
-		
REC	TROUBLE RECORD	
REP	REPEAT TEST	
RL	RELEASE	
ST	START AND ADVANCE	

LEVER TYPE KEYS (CONT)

LINE NO.	112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85
REC				•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•		•		•	•	•	
REP																												
RL				X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	
ST				X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

(2) 6S

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DRAWING ISSUE: 51D, 56D, 80D

FIG. 201B (CONT)

SYMBOLS USED:

X. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY BUTTON OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.

+. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "+" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS. ANY APPROPRIATE COMBINATION OF KEYS MARKED + MAY BE OPERATED.

0,*. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "0" MUST BE OPERATED.

NOTES:

1. OPTION "RB" MAKES "MD" RC(11-15) KEYS
   OPTION "RC" PROVIDES RING. COMB. 11-15 ON RC(1-5) KEYS WITH OTRC KEY OPERATED.
   OPTION "RD" MAKES "MD" VF(0-4) KEYS
   OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF(0-4) KEYS
   OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS CSGA,CSGB KEYS.

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF 11X SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3-DIGIT CODE AREA.

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED	SEE NOTE	ITC & RN	FT	FU	VG	HG	VF	CST	OSU	IC	A	B	C	D	E	F	G	H	J	K	L	RC	FS	TS	OS	CH	JSQ	S	HT MB	TT CP	UT	LINE NO.
		INC TRK CLASS OR RECORDER NO.																																	
		LINE LINK FRAME TENS																																	
		LINE LINK FRAME UNITS																																	
		VERTICAL GROUP																																	
		HORIZONTAL GROUP																																	
		VERT FILE (SEE NOTE 1) VERT FILE (CL TDM)																																	
		CL OF SERV TENS (CL TDM)(SEE NOTE 1)																																	
		CLASS OF SERVICE UNITS																																	
		INCOMING CLASS OF CALL																																	
		RINGING COMBINATION																																	
		RING COMB, RATE TREATMENT (SEE NOTE 1)																																	
		TRUNK LINK FRAME SELECTION																																	
		TRUNK OR ORIGINATING REGISTER SELECTION																																	
		OUTG. SENDER SELECTION																																	
		CHANNEL SELECTION																																	
		JUNCTOR SEQUENCE SELECTION																																	
		SLEEVE																																	
		TOM TRK HUNDS OR MSG BILLING INDEX																																	
		TOM TRK TENS OR CODE POSITION																																	
		TRADEM TRUNK UNITS																																	
		CALLING NUMBER																																	
		SENDER GROUP																																	
		CAMA POSITION OR CENTREX POSITION																																	
		INFORMATION DIGIT																																	
		CONTROL DIGIT (EFFECTIVE IF (4-WIRE) KEY IS OPERATED)																																	
		MKR TRANSVERTER SELECTION																																	
		RA SWITCH ROUTE ADVANCE																																	
		OFU SWITCH OFFICE UNITS																																	
		POS LOOP SWITCH CENTREX POSITION LOOP																																	
113																																			113
114																																			114
115																																			115
116		INCOMING TRUNK IN SAME OFFICE NO PULSING OVER TIP & RING — DIRECT TO ANY LINE											OFFICE CODE AS REQ				ANY LINE NUMBER																		116
117		DIRECT TO TERMINATING TEST LINE											OFFICE CODE AS REQ											X											117
118		DIRECT TO TERMINATING TEST LINE-FREE NO.											OFFICE CODE AS REQ				TERM. TEST LINE FREE NUMBER							X											118
119		DIRECT TO BUSY LINE											OFFICE CODE AS REQ																							119
120																																			120
121		INTERTOLL OR TANDEM INCOMING TRUNK IN SAME OFFICE NO PULSING OVER TIP & RING — DIRECT TO ANY LINE										TOL -	DIRECTING CODE, OFFICE CODE, AND LINE NO. AS REQ.																							121
122		DIRECT TO TERM. TEST LINE										TOL -	OFFICE CODE AS REQ											X											122
123		DIRECT TO BUSY LINE										TOL -	OFFICE CODE AS REQ																							123
124		DIRECT TO OUTGOING TRK.										TOL TAN	OFFICE CODE AS REQ																							124
125																																			125
126																																			126
127																																			127
128																																			128
129																																			129
130																																			130
131																																			131
132																																			132
133																																			133
134																																			134
135																																			135
136																																			136
137																																			137
138																																			138
139																																			139
140																																			140

TRUNK TESTS
INCOMING TRUNK NO PULSING

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

DRAWING ISSUE
5ID FM
MG
800

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MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
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FIG. 201B (CONT)

140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	LINE NO.		
SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																														
																												LP(0-11)	PROGRESS AND IDENTIFICATION LAMP CONTROL	PUSHBUTTON KEYS
																												NG(A-H)	ALLOTTED NUMBER GROUP SELECTION CONTROL	
																												OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"	
																												AD	AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"	
																												-		
																												DNC	DENIED CODE	
																												-		
																												LCD1	LOCAL CODE 1	
																												LCD2	LOCAL CODE 2	
																												ACD	AREA CODE	
																												LOM1	LINE OBSERVING MATCHING 1	
																												LOM0	LINE OBSERVING MATCHING 0	
																												TI2	TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)	
																												TI1	TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)	
																												-		
																												TI3	TROUBLE INDICATION 3 (CAMA SUSPENSION COMPLETE FREE)	
																												-		
																												ROP	REORDER POSITION	
																		X				X	X					OTRC	OVER TEN RINGING COMBINATION	
																												-		
																												CAMO	CAMA INCOMING TANDEM SUPERVISION	
																												CAM2	CAMA COMPLETING TANDEM SUPERVISION	
																												CAM1	CAMA INCOMING TOLL SUPERVISION	
																												CAM3	CAMA COMPLETING TOLL SUPERVISION	
																												BI1	BILLING INDEXER 1	
																												BI0	BILLING INDEXER 0	
																												ANI	AUTO. NO. IDENT	
																												CAMA	CAMA	
																												VTC	VACANT TERMINATING CODE	
																												FC	FREE CALL	
																												-		
																												ORC0	ORIGINATING RATE CLASS 0	
																												ORC1	ORIGINATING RATE CLASS 1	
																												ORC2	ORIGINATING RATE CLASS 2	
																												CAT	CAMA SENDER TIME OUT	
																												CA	CALL ABANDONED	
																												CAMS	CAMA SENDER CLASS OF TEST	
																												IMI	CAMA INTERMARKER GROUP TRUNK CLASS OF TEST	
																												ANY POS	ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION	
																												TST POS	DIRECTS CAMA TEST CALL TO SIMULATED POSITION	
																												SEL POS	DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR	
																												OP	OUTPULSE	
																												-		
																												LT3	PRIVATE LINE NET (PREFIX DIGIT "8")	
																												2DTO	TWO DIGIT TRANSLATOR, ORIGINATING CLASS	
																												FS	FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)	
																												NTFS	FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)	
																												FG2	FRAME GROUP 2	
																												FG0	FRAME GROUP 0	
																												FG1	FRAME GROUP 1	
																												TS	TRUNK SELECTION	
																												NTTS	NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)	
																												ATLV	ANI TRANSVERTER LINE VERIFICATION	
																												OSS	OUTSENDER SELECTION	
																												SGB	SENDER GROUP B	
																												SGA	SENDER GROUP A	
																												GPB	ALLOTTER GROUP B	ON TESTS WHERE "X" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED
																												GPA	ALLOTTER GROUP A	
																												RA1	ROUTE ADVANCE ONCE	
																												RA0	NO ROUTE ADVANCE	
																												RA3	ROUTE ADVANCE THREE TIMES	
																												RA2	ROUTE ADVANCE TWICE	
																												RBT	RETURN BUST TONE (TROUBLE RELEASE)	
																												TRR	TROUBLE RECORD (REGULAR RELEASE)	
																												RLT	OPEN "RL" LEAD	
																												HLD	HOLD	
																												LT1	DIGIT "1" ACCESS CALL	
																												LT2	ZERO PREFIX PPCS CALL	
																												NID	NON-OPERATOR IDENTIFIED PPCS CALL	
																												ICB	TRUNK CLASS B	
																												FVDT	FIFTH DIGIT TRANSLATION	
																												2DTT	2DT TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY)	
																												PTR	OPEN "PTR" LEAD	
																												IOD	OPERATOR IDENTIFIED PPCS CALL	
																												PRL	OPEN "PRL" LEAD	
																												OT	OPEN TRANSMITTING LEADS	
																												RLK	OPEN "RLK" LEAD	
																												LK	OPEN LOCKING GROUND	
																												S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2	
																												S1L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1	
																												S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4	
																												S3L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3	
																												STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY	
																												RTBL	RECORDER TROUBLE	
																												TOF	TRANSLATOR OVERFLOW	
																												SFAL	STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY	
																												TICB	FALSE BATTERY ON "TIC" LEAD	
																												TICG	FALSE GROUND ON "TIC" LEAD	
																												-		
																												TRO	TRANSLATOR OPERATE	
																												5DG	FIVE DIGIT NUMBER NO LETTERED STATION	
																												4DG	FOUR DIGIT NUMBER NO LETTERED STATION	
																												LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS	
																												LSD	LETTERED STATIONS MORE THAN 10,000 NUMBERS	
SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																														
140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	LINE NO.		

LEVER TYPE KEYS

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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80D

5ID

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140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	LINE NO.	
SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																													
																												TVT	TRANSVERTER CLASS OF TEST
																												PTT	PRETRANSLATOR CLASS OF TEST
																												TVT1	TRANSVERTER TEST NO. 1 (USING AMA RECORDER)
																												TLV	TRANSLATOR LINE VERIFICATION
																												SDT2	SENDER TEST NO. 2 (OVERFLOW)
																												SDT1	SENDER TEST NO. 1 (REGULAR RELEASE)
																												SDT3	SENDER TEST NO. 3 (DELAYED PULSING)
																												RMB	RECORDER MAKE BUSY
																												OFF1	ORIGINATING OFFICE GROUP 1
																												OFF0	ORIGINATING OFFICE GROUP 0
																												OFF3	ORIGINATING OFFICE GROUP 3
																												OFF2	ORIGINATING OFFICE GROUP 2
																												OFF5	ORIGINATING OFFICE GROUP 5
																												OFF4	ORIGINATING OFFICE GROUP 4
																												-	
																												OBS	OBSERVING (4 LINE ENTRY)
																												DT	MARKER TEST, DIAL TONE CLASS
																												ORIG	MARKER TEST, ORIGINATING CLASS
																												INC	MARKER TEST, INCOMING CLASS
																												SDT	SENDER TEST CLASS
																												OR	ORIGINATING REGISTER TEST CLASS
																												SDR	SENDER TEST CLASS
																												IR	INCOMING REGISTER TEST CLASS
																												IMS	INTERMARKER GROUP SENDER TEST CLASS
																												OGT	OUTGOING TRUNK TEST CLASS
																												MISC	MISCELLANEOUS TRUNK TEST CLASS
																												IAO	INTRAOFFICE OR INTERMARKER GROUP TRUNK TEST CLASS
																												ITDO	INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
																												ATNT	CENTREX ATTENDANT TRUNK TEST CLASS
																												ITNP	INCOMING TRUNK - NO PULSING TEST CLASS
																												MLV	MARKER LINE VERIFICATION
																												LT	LINE TEST
				X		X					X																	TTL	TERMINATING TEST LINE
					X					X												X					BB	BUSY BACK
							X																	X				KY	CONNECT NUMBER KEYS
																						X						KRC	CONNECT NUMBER & RINGING COMBINATION KEYS
																												-	
																												TOBS	TRUNK OBSERVING
																												CAN	SIMULATES GROUND FROM SERVICE
																												FAD	OBSERVING REGISTER CONNECTOR
																												MFA	CIRCUIT TO THE MARKER
																												(CGB) CSGA	CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A" SEE NOTE 1
																												CSGB	CLASS OF SERVICE RATE GROUP "B"
																												TTI	TOLL TRANSLATOR, INCOMING CLASS
																												E	EXTRA THEORETICAL
																												FAB	FOREIGN AREA TRANSLATOR B
																												FAA	FOREIGN AREA TRANSLATOR A
																												STP2	JUNCTOR SEQUENCE STEP, POSITION 2
																												STP1	JUNCTOR SEQUENCE STEP, POSITION 1
																												EBH	END OF BLOCK HUNT
																												PBXH	PBX HUNT
																												FACD	FOREIGN AREA CUSTOMER DIALING
																												PTL	TEST PTL TUBE
																												GT	OPERATE TEST OF MARKER (GT) RELAY
																												FCG	OPERATE TEST OF MARKER (FCG) RELAY
																												LGT	LOOP GROUND TEST
																												TCT	TEST CONTINUITY TUBE
																												HTR	HEAVY TRAFFIC
																												TC	TEST CONTINUITY
																												CON	LOOP CONTINUITY TEST
																												RV	REVERSE CONTINUITY TEST
																												LBL	LINE BUSY AT LINE LINK FRAME
																												PU	OPERATE TEST OF MARKER (PU) RELAY
																												XLH	CROSSED LINE HOLD MAGNET
																												LB	LINE BUSY
																												TR2	SECOND TRIAL
																												TRS	TRANSFER START LEAD
																												MF	MULTIFREQUENCY LINE FRAME
																												MLF	MIXED LINE FRAME
																												CNR	COIN RETURN
																												SCN	STUCK COIN
																												PS	PERMANENT SIGNAL
																												PD	PARTIAL DIAL
																												TP	TIP PARTY
																												PMM	PARTY MISMATCH
																												11	11 PREFIX
																												X11	3 DIGIT SERVICE CODE
																												2DT	TWO DIGIT TANDEM
																												2DTT	TWO DIGIT TRANSLATOR, INCOMING CLASS
																												FNB	FREE NUMBER B
																												FNA	FREE NUMBER A
																												PCD	PULSE CONVERSION DIAL, FIRST SENDER GROUP
																												PCD1	PULSE CONSERSION DIAL, SECOND SENDER GROUP
																												THC	THEORETICAL CALL
																												PHC	PHYSICAL CALL
																												DCK	LINK DOUBLE CONNECTION
																												LR	LINK RELEASE
																												ROT	REORDER TEST
																												OCN	ODD CONNECTION
																												RO	REORDER
																												ND	NO DIGIT
																												NN	NEITHER NO TEST NOR NO HUNT
																												NGT	NUMBER GROUP SELECTION (PULL OUT NG(A-H) KEYS AS REQD)
																												NT	NO TEST
																												NH	NO HUNT
																												SPL	SPECIAL
																												NTC	NO TEST CONNECTOR
SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																													
140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	LINE NO.	

FIG. 201B (CONT)

LEVER TYPE KEYS (CONT)

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG. 201B (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

LEVER TYPE KEYS (CONT)

Key	Function	Group
RTO	ORIGINATING REGISTER ROUTE "0"	
RT1	ORIGINATING REGISTER ROUTE "1"	
RT2	ORIGINATING REGISTER ROUTE "2"	
RT3	ORIGINATING REGISTER ROUTE "3"	
4W	4-WIRE	EFFECTIVE IF (4W) KEY IS OPERATED
CONA	NORMAL-TEST (CON) TUBE / OPERATED-TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) AND (TCT) KEYS	EFFECTIVE IF (4W) KEY IS OPERATED
FCGA	OPERATE TEST-MARKER (FCGA) RELAY	EFFECTIVE IF (4W) KEY IS OPERATED
NGPB	NUMBER GROUP "B"	EFFECTIVE IF (4W) KEY IS OPERATED
NGPA	NUMBER GROUP "A"	EFFECTIVE IF (4W) KEY IS OPERATED
LES	GROUND ON LINE LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TEST
NLES	MISSING GROUND ON LINE LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TEST
TES	GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TEST
NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD	ECHO SUPPRESSOR CONTROL TEST
GESK	FALSE GROUND ON "ESK" LEAD	ECHO SUPPRESSOR CONTROL TEST
OESK	OPEN "ESK" LEAD	ECHO SUPPRESSOR CONTROL TEST
OFT1	OFFICE TENS "1"	
OFT2	OFFICE TENS "2"	
TST CNSL	TEST CONSOLE	CENTREX TESTS
ATC	ATTENDANT CLASS	CENTREX TESTS
TRF	TRANSFER CLASS	CENTREX TESTS
CON	LISTED DIRECTORY NUMBER	CENTREX TESTS
CGLS	CUSTOMER GROUP LINE SIMULATED	CENTREX TESTS
CNTX	CENTREX	CENTREX TESTS
NFG0 / NFG1 / NFG2	NUMBER GROUP FRAME SELECTION	CENTREX TESTS
608	608 CORD BOARD OPERATION	CENTREX TESTS
TBS SWITCH	TENS BLOCK SCREENING	
TERT SWITCH	TERMINATING TREATMENT	
TBT SWITCH	NUMBER GROUP TENS BLOCK TENS	LINE LINK PULSING
TBU SWITCH	NUMBER GROUP TENS BLOCK UNITS	LINE LINK PULSING
LLP	LINE LINK PULSING	LINE LINK PULSING
NG1K	FIRST NUMBER GROUP USAGE CHECK	LINE LINK PULSING
NTLS	NO TEST LLP LINE CKT SELECTION	LINE LINK PULSING
NG2K	SECOND NUMBER GROUP USAGE CHECK	LINE LINK PULSING
RIP	RESTRICTED INTERCEPT PBX	
ST SEL SWITCH	START LEAD SELECT	CONF CONT
CTAD	CONTROLLED ADVANCE	CONF CONT
STAA	AUTOMATIC ADVANCE START	CONF CONT
IST	INDIVIDUAL START	CONF CONT
STAD	START ADVANCE	CONF CONT
STRC	START RECYCLE	CONF CONT
PERT	PRE-EMPTION REGISTER TEST	
PEMT	PRE-EMPTION MARKER TEST	
DL3	DELETE 3	
DL6	DELETE 6	
CDA SWITCH	4-WIRE ROUTE CONTROL DIGIT	
OI1	AIOD OFFICE INDEX "1"	
OI2	AIOD OFFICE INDEX "2"	
THT1	THOUSANDS DIGIT TRUNK NUMBER	
REC	TROUBLE RECORD	
REP	REPEAT TEST	
RL	RELEASE	
ST	START AND ADVANCE	

LINE NO.	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113
REC																	•	•	•	•		•	•	•	•			
REP																												
RL																	X	X	X	X		X	X	X	X			
ST																	X	X	X	X		X	X	X	X			

MASTER TEST CONTROL CIRCUIT ②

BELL TELEPHONE LABORATORIES INCORPORATED

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DRAWING ISSUE: 51D CS ENG APP; 56D DP ENG APP; 80D

FIG. 201C - OPERATION OF KEYS FOR SETTING UP TYPICAL REGISTER,SENDER,LINE,LINE VERIFICATION, + TRANSVERTER TESTS

SYMBOLS USED:

X. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY, BUTTON, OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.

+. FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "+" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS ANY APPROPRIATE COMBINATION OF KEYS MARKED "+" MAY BE OPERATED.

O.* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "O" MUST BE OPERATED.

NOTES:

1. (IMS) CLASS OF TEST KEY IS USED INSTEAD OF (SDR) FOR TESTING INTERMARKER GROUP SENDERS.
2. FOR 2 DIGIT TRANSLATION OF BX CODES WITH TANDEM OPERATION, OPERATE (2DT) KEY INSTEAD OF BUTTON ON (IC) KEY. FOR NON TANDEM OPERATION (INCOMING CLASS), OPERATE (2DTI) KEY. SET BX CODE ON (A) & (B) KEYS FOLLOWED BY NUMERICAL DIGITS ON SUCCESSIVE KEYS.
3. (SDT) CLASS OF TEST KEY IS USED INSTEAD OF (SDR) FOR TESTING WITH SENDER TEST CIRCUIT.
4. FOR TOLL TRANSLATION WITH INCOMING CLASS, OPERATE (TTI) KEY INSTEAD OF BUTTON ON (IC) KEY.
5. FOR EXTRA THEORETICAL NUMBERS, OPERATE (E) KEY IN ADDITION TO (OAT) OR (OBT) BUTTON OF (IC) KEY.
6. FOR TOLL OR TANDEM CLASSES

	CLASS	KEY OPERATED
PRIOR TO ISSUE 220 NO TANDEM OR TOLL SCREENING		
	TAN	TAN (IC)
	TOL	TOL (IC)

(NOTES CONTINUED BELOW)

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF 11X SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A "J" DIGIT CODE AREA.

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED		SEE NOTE	ITC & RN	FT	FU	VG	HG	VF	CST	CSU	IC	A	B	C	D	E	F	G	H	J	K	L	RC	(RC) CRU	FS	TS	OS	CH	JSQ	S	MT & MB	TT & CP	UT
		INC TRK CLASS OR RECORDER NO.																								RING COMB RATE TREATMENT SEE NOTE 1										
		LINE LINK FRAME TENS									CL OF SERV TENS (CL TOM) SEE NOTE 1																TRUNK LINK FRAME SELECTION									
		LINE LINK FRAME UNITS										CLASS OF SERVICE UNITS																TRUNK OR ORIGINATING REGISTER SELECTION								
		VERTICAL GROUP											INCOMING CLASS OF CALL															OUTG SENDER SELECTION								
		HORIZONTAL GROUP																											CHANNEL SELECTION							
		VERT FILE 1 SEE NOTE 1 VERT FILE (CL TOM)																											JUNCTOR SEQUENCE SELECTION						
																													SLEEVE						
																													TOM TRK HUNDS OR MSG BILLING INDEX						
																													TOM TRK TENS OR CODE POSITION						
																													TANDEM TRUNK UNITS						
																													SWITCHES						
																													CALLING NUMBER						
																													SENDER GROUP						
																													CAMA POSITION OR CENTREX POSITION						
																													INFORMATION DIGIT						
																													CONTROL DIGIT (EFFECTIVE IF 4W KEY IS OPERATED)						
																													MARKER TRANSVERTER SELECTION						
																													ROUTE ADVANCE						
																													OFFICE UNITS						
																													CENTREX POSITION LOOP						
																													POS LOOP SWITCH						
141		DIAL ORIGINATING REGISTER	ORIGINATING TEST LINE LOCATION								X	X		← AS REQUIRED FOR USE WITH MON →												X	X	X								141
142			ANY ORIGINATING LINE LOCATION				ANY LINE LOCATION				X	X		← AS REQUIRED FOR USE WITH MON →												X	X	X								142
143																																			143
144																																			144
145																																			145
146	FOR USE WITH AUTO. MON. REG & SDR. TEST CKT. OR FOR USE WITH SENDER TEST CKT.	SENDER-REGULAR TEST- NON AMS	ORIG. TEST LINE LOCATION		1,3		ANY LINE LOCATION				NON AMA CLASS		AMA OR NON AMA OFFICE CODE	← AS REQUIRED →												X	+	+	X						X	146
147		SENDER-REGULAR TEST-AMA			1,3						AMA CLASS		AMA OFFICE CODE	← AS REQUIRED →												X	+	+	X						X	147
148		SENDER-OVERFLOW TEST-AMA			1,3						AMA CLASS		AMA OFFICE CODE	← AS REQUIRED →												X	+	+	X						X	148
149		SENDER-DELAYED PULSING TEST-AMA									AMA CLASS		AMA OFFICE CODE	← AS REQUIRED →												X	+	+	X						X	149
150		SENDER-REGULAR TEST-AMA	USING ANY ORIG.LINE LOCATION		1,3						AMA CLASS		AMA OFFICE CODE	← AS REQUIRED →												X	+	+	X						X	150
151		SENDER-INTERTOLL OR TANDEM FEATURES			1,2 3,4					+	+		TOL TAN FVD	DIRECTING CODE, OFFICE CODE & NUMBER AS REQUIRED													+	+	X						X	151
152		SENDER-PULSE CONVERSION FEATURES			3	X							PC	ANY CODE AND/OR LINE NUMBER															X						X	152
153		MF SENDER TEST-ANTI FEATURES	ANY ORIG.LINE LOCATION		3,7		ANY LINE LOCATION				ANI CLASS		ANI OFFICE CODE	← AS REQUIRED →												X	+	+	X						X	153
154																																			154
155																																			155
156	FOR USE WITH AUTO. MON. REG.& SDR. TEST CKT. ONLY	INCOMING REGISTER			6					+	+		X	← AS REQUIRED →																						156
157																																			157
158																																			158
159																																			159
160																																			160
161	LINE TEST	SUBSCRIBER LINE			5								X	LINE NUMBER																+	+					161
162																																			162
163																																			163
164																																			164
165																																			165
166																																			166
167																																			167
168																																			168

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

6..(CONT) PRIOR TO ISSUE 22D FOR TANDEM SCREENING

TOL		TOL(IC)
TANO	CST 0	TAN (IC)
TAN 1-4	CST 1-4	TAN(IC)/2DT/FVD

ISSUE 22D OR LATER

TAN 0	CSTO, TAN (IC)
TAN 1-4	CST 1-4, TAN (IC)/2DT/FVD
TOL 0	TCB, CSTO, TOL (IC)
TOL 1-4	TCB, CST 1-4, TOL (IC)/2DTT/FVDT

7. THE CALLING NO. DIG. A THRU G ARE SET UP ON THE (CNA) THRU (CNG) ROTARY SW. FOR A FULLY AUTO. ANI CALL. IN ADD. THE ARBITARY DIGIT, (CRX) SW. IS SET TO THE AI POS 0 OR 3 FOR A FULLY AUTO. CALL, OR TO THE OI POS 1 OR 4 FOR AN OPR IDENT CALL. THE (CNA) THRU (CNG) ROTARY SW ARE NOT OPR FOR AN OI TEST CALL.

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FIG. 201C (CONT)

168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	LINE NO.	
SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																													
																												LP (0-11)	PROGRESS AND IDENTIFICATION LAMP CONTROL
																												NG (A-H)	ALLOTTED NUMBER GROUP SELECTION CONTROL
																												OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"
																												AD	AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"
																												-	
																												DNC	DENIED CODE
																												-	
																												LCD1	LOCAL CODE 1
																												LCD2	LOCAL CODE 2
																												ACD	AREA CODE
																												LOM1	LINE OBSERVING MATCHING 1
																												LOMO	LINE OBSERVING MATCHING 0
																												TI2	TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)
																												TI1	TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)
																												-	
																												TI3	TROUBLE INDICATION 3 (CAMA SUPENSION COMPLETE FREE)
																												-	
																												ROP	RECORDER POSITION
																												OTRC	OVER TEN RINGING COMBINATION
																												-	
																												CAM0	CAMA INCOMING TANDEM SUPERVISION
																												CAM2	CAMA COMPLETING TANDEM SUPERVISION
																												CAM1	CAMA INCOMING TOLL SUPERVISION
																												CAM3	CAMA COMPETING TOLL SUPERVISION
																												BI1	BILLING INDEXER 1
																												BI0	BILLING INDEXER 0
																												ANI	AUTO. NO. IDENT
																												CAMA	CAMA
																												VTC	VACANT TERMINATING CODE
																												FC	FREE CALL
																												-	
																												ORC0	ORIGINATING RATE CLASS 0
																												ORC1	ORIGINATING RATE CLASS 1
																												ORC2	ORIGINATING RATE CLASS 2
																												CAT	CAMA SENDER TIME OUT
																												CA	CALL ABANDONED
																												CAMS	CAMA SENDER CLASS OF TEST
																												IMT	CAMA INTERMARKER GROUP TRUNK CLASS OF TEST
																												ANYPOS	ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL POSITION
																												TST POS	DIRECTS CAMA TEST CALL TO SIMULATED POSITION
																												SEL POS	DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR
																												OP	OUTPULSE
																												-	
																												LT3	PRIVATE LINE NET. (PREFIX DIGIT "3")
																												2 DTO	TWO DIGIT TRANSLATOR, ORIGINATING CLASS
																												FS	FRAME SELECTION (TEST FOR IDLE TRUNKS)
	+		+	+	+	+	+	+																		×	×	NTFS	FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)
																												FG2	FRAME GROUP 2
	+		+	+	+	+	+	+																				FG0	FRAME GROUP 0
																												FG1	FRAME GROUP 1
																												TS	TRUNK SELECTION
	+		+	+	+	+	+	+																		×	×	NTTS	NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)
																												ATLV	ANI TRANSFERTER LINE LINE VERIFICATION
	×	×	×	×	×	×	×	×																				OSS	OUTSENDER SELECTION
	×	×	×	×	×	×	×	×																				SGB	SENDER GROUP B
																												SGA	SENDER GROUP A
	×		×	×	×	×	×	×																				GPB	ALLOTTER GROUP B — ON TESTS WHERE "X" IS SHOWN THIS KEY NEED TO BE OPERATED ONLY IF ROUTE IS ALLOTTED
																												GPA	ALLOTTER GROUP A
																												RA1	ROUTE ADVANCE ONCE
	×		×	×	×	×	×	×																		×	×	RA0	NO ROUTE ADVANCE
																												RA3	ROUTE ADVANCE THREE TIMES
																												RA2	ROUTE ADVANCE TWICE
																												RBT	RETURN BUSY TONE (TROUBLE RELEASE)
																												TRR	TROUBLE RECORD (REGULAR RELEASE)
																										+	+	RLT	OPEN "RL" LEAD
																										+	+	HLD	HOLD
																												LT1	DIGIT "1" ACCESS CALL
																												LT2	ZERO PREFIX PPCS CALL
																												NID	NON-OPERATOR IDENTIFIED PPCS CALL
																												TCB	TRUNK CLASS B
																												FVDT	FIFTH DIGIT TRANSLATION
																												2DTT	2DT TRANSLATOR (OPERATED INSTEAD OF BUTTON 3C KEY)
																												PTR	OPEN "PTR" LEAD
																												IOD	OPERATOR IDENTIFIED PPCS CALL
																												PRL	OPEN "PRL" LEAD
																												OT	OPEN TRANSMITTING LEADS
																												RLK	OPEN "RLK" LEAD
																												LK	OPEN LOCKING GROUND
																												S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2
																												S1L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1
																												S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4
																												S3L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3
																												STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY
																												RTBL	RECORDER TROUBLE
																												TOF	TRANSLATOR OVERFLOW
																												SFAL	STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY
																												TICB	FALSE BATTERY ON "TIC" LEAD
																												TICG	FALSE GROUND ON "TIC" LEAD
																												-	
																												TRO	TRANSLATOR OPERATE
																												5DG	FIVE DIGIT NUMBER NO LETTERED STATION
																												4DG	FOUR DIGIT NUMBER NO LETTERED STATION
																												LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS
																												LSD	LETTERED STATIONS MORE THAN 10,000 NUMBERS
SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																													
168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	LINE NO.	

LEVER TYPE KEYS

FIG. 201C (CONT)

LEVER TYPE KEYS (CONT)

SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	LINE NO.
SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																												
																												TVT — TRANSVERTER CLASS OF TEST
																												PTT — PRETRANSLATOR CLASS OF TEST
																												TVT1 — TRANSVERTER TEST NO. 1 (USING AMA RECORDER)
																												TLV — TRANSLATOR LINE VERIFICATION
																					x							SDT2 — SENDER TEST NO. 2 (OVERFLOW)
															+			x				x						SDT1 — SENDER TEST NO. 1 (REGULAR RELEASE)
																			x									SDT3 — SENDER TEST NO. 3 (DELAYED PULSING)
																												RMB — RECORDER MAKE BUSY
																												OFF1 — ORIGINATING OFFICE GROUP 1
																												OFF0 — ORIGINATING OFFICE GROUP 0
																												OFF3 — ORIGINATING OFFICE GROUP 3
																												OFF2 — ORIGINATING OFFICE GROUP 2
																												OFF5 — ORIGINATING OFFICE GROUP 5
																												OFF4 — ORIGINATING OFFICE GROUP 4
																												-
															+			+	+	+	+					+		OBS — OBSERVING (4 LINE ENTRY)
																												DT — MARKER TEST, DIAL TONE CLASS
																												ORIG — MARKER TEST, ORIGINATING CLASS
																												INC — MARKER TEST, INCLUDING CLASS
															o	o	o	o		o	o	o						SDT — SENDER TEST CLASS
																										x	x	OR — ORIGINATING REGISTER TEST CLASS
															o	o	o	o	x	o	o	o						SDR — SENDER TEST CLASS
												x																IR — INCOMING REGISTER TEST CLASS
																	o	o		o	o	o						IMS — INTERMARKER GROUP SENDER TEST CLASS
																												OGT — OUTGOING TRUNK TEST CLASS
																												MISC — MISCELLANEOUS TRUNK TEST CLASS
																												IAO — INTRAOFFICE OR INTEROFFICE GROUP TRUNK TEST CLASS
																												ITDO — INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
																												ATNT — CENTREX ATTENDANT TRUNK TEST CLASS
																												ITNP — INCOMING TRUNK - NO PULSING TEST CLASS
																												MLV — MARKER LINE VERIFICATION
						x																						LT — LINE TEST
																												TTL — TERMINATING TEST LINE
																												BB — BUSY BACK
																												KY — CONNECT NUMBER KEYS
																												KRC — CONNECT NUMBER & RINGING COMBINATION KEYS
																												-
																												TOBS — TRUNK OBSERVING
																												CAM — SIMULATES GROUP FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
																												FAD — SIMULATES GROUP FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
																												HEA — SIMULATES GROUP FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
															x			x	x	x	x	x				x	x		(CGB) CSGA — CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A" SEE NOTE 1
															x			x	x	x	x	x				x	x		CSGB — CLASS OF SERVICE RATE GROUP "B"
																												TTI — TOLL TRANSLATOR, INCOMING CLASS
																												E — EXTRA THEORETICAL
																												FAB — FOREIGN AREA TRANSLATOR B
																												FAA — FOREIGN AREA TRANSLATOR A
						+																						STP2 — JUNCTOR SEQUENCE STEP, POSITION 2
																												STP1 — JUNCTOR SEQUENCE STEP, POSITION 1
																												EBH — END OF BLOCK HUNT
																												PBXH — PBX HUNT
																												FACD — FOREIGN AREA CUSTOMER DIALING
																												PTL — TEST PTL TUBE
																												GT — OPERATE TEST OF MARKER (GT) RELAY
																												FCG — OPERATE TEST OF MARKER (FCG) RELAY
																												LGT — LOOP GROUND TEST
																												TCT — TEST CONTINUITY TUBE
																												HTR — HEAVY TRAFFIC
																												TC — TEST CONTINUITY
																												CGH — LOOP CONTINUITY TEST
																												RV — REVERSE CONTINUITY TEST
																												LBL — LINE BUSY AT LINE LINK FRAME
																												PU — OPERATE TEST OF MARKER (PU) RELAY
																												XLU — CROSSED LINE HOLD MAGNET
																												LB — LINE BUSY
																												TR2 — SECOND TRIAL
																												TRS — TRANSFER START LEAD
																												MF — MULTIFREQUENCY LINE FRAME
																												MLF — MIXED LINE FRAME
																												CNR — COIN RETURN
																												SCN — STUCK COIN
																												PS — PERMANENT SIGNAL
																												PD — PARTIAL DIAL
															+			+	+	+	+							TP — TIP PARTY
																												PNM — PARTY MISMATCH
																												11 — 11 PREFIX
																												X11 — 3 DIGIT SERVICE CODE
																												2DT — TWO DIGIT TANDEM
																												2DTI — TWO DIGIT TRANSLATOR INCOMING CLASS
																												FNB — FREE NUMBER B
																												FNA — FREE NUMBER A
																+												PCD — PULSE CONVERSION DIAL, FIRST SENDER GROUP
																												PCD1 — PULSE CONVERSION DIAL, SECOND SENDER GROUP
																												THC — THEORETICAL CALL
																												PHC — PHYSICAL CALL
																												DCK — LINK DOUBLE CONNECTION
																+	+				+	+						LR — LINK RELEASE
																												ROT — RECORDER TEST
																												OCN — ODD CONNECTION
																+	+				+	+	+					RO — RECORDER
																												ND — NO DIGIT
																												NN — NEITHER NO TEST NOR NO HUNT
																												NGT — NUMBER GROUP SELECTION (PULL OUT N & (A-H) KEYS AS REQD)
																												NT — NO TEST
																												NH — NO HUNT
												+																SPL — SPECIAL
															x			x								x		NTC — NO TEST CONNECTOR
																												LINE NO.

SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	LINE NO.

FIG. 201C (CONT.)

LEVER TYPE KEYS (CONT.)

168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	LINE NO.			
SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST																															
																												RTO	ORIGINATING REGISTER ROUTE "0"		
																												RT1	ORIGINATING REGISTER ROUTE "1"		
																												RT2	ORIGINATING REGISTER ROUTE "2"		
																												RT3	ORIGINATING REGISTER ROUTE "3"		
																												4W	4-WIRE	EFFECTIVE IF (4W) KEY IS OPERATED	
																												CONA	NORMAL-TEST (CON) TUBE OPERATED-TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) AND (TCT) KEYS		
																												FCGA	OPERATE TEST-MARKER (FCGA) RELAY		
																												NGPB	NUMBER GROUP "B"		
																												NGPA	NUMBER GROUP "A"		
																												LES	GROUND ON LINE LINK "ES" LEAD	ECHO SUPR CONTROL TESTS	
																												NLES	MISSING GROUND ON LINE LINK "ES" LEAD		
																												TES	GROUND ON TRUNK LINK "ES" LEAD		
																												NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD		
																												GESK	FALSE GROUND ON "ESK" LEAD		
																												OESK	OPEN "ESK" LEAD		
																												OFT1	OFFICE TENS "1"		
																												OFT2	OFFICE TENS "2"		
																												TST CNSL	TEST CONSOLE	CENTREX TESTS	
																												ATC	ATTENDANT CLASS		
																												TRF	TRANSFER CLASS		
																												CDN	LISTED DIRECTORY NUMBER		
																												CGLS	CUSTOMER GROUP LINE SIMULATED		
																												CNTX	CENTREX		
																												NFG0 NFG1 NFG2	NUMBER GROUP FRAME SELECTION		
																												608	608 CORD BOARD OPERATION		
																												TBS SWITCH	TENS BLOCK SCREENING		
																												TERT SWITCH	TERMINATING TREATMENT		
																														LINE LINK PULSING	
																												TBT SWITCH	NUMBER GROUP TENS BLOCK TENS		
																												TBU SWITCH	NUMBER GROUP TENS BLOCK UNITS		
																												LLP	LINE LINK PULSING		
																												NG1K	FIRST NUMBER GROUP USAGE CHECK		
																												NTLS	NO TEST LLP LINE CKT SELECTION		
																												NG2K	SECOND NUMBER GROUP USAGE		
																												RIP	RESTRICTED INTERCEPT PBX		
																												ST SEL SWITCH	START LEAD SELECT	CONF CONT	
																												CTAD	CONTROLLED ADVANCE		
																												STAA	AUTOMATIC ADVANCE START		
																												1ST	INDIVIDUAL START		
																												STAD	START ADVANCE		
																												STRC	START RECYCLE		
																												CDA SWITCH	4-WIRE ROUTE CONTROL DIGIT		
																												OI1	AIOD OFFICE INDEX "1"		
																												OI2	AIOD OFFICE INDEX "2"		
																												PERT	PRE-EMPTION REGISTER TEST		
																												PEMT	PRE-EMPTION MARKER TEST		
																												DL3	DELETE 3		
																												DL6	DELETE 6		
																												THTI	THOUSANDS DIGIT TRUNK NUMBER		
															•	•	•	•	•	•	•	•	•	•	•	•	•	REC	TROUBLE RECORD		
												•			•	•	•	•	•	•	•	•				•	•	REP	REPEAT TEST		
							X					X			X	X	X	X	X	X	X	X				X	X	RL	RELEASE		
							X					X			X	X	X	X	X	X	X	X				X	X	ST	START AND ADVANCE		
168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	LINE NO.			

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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PNR 51 DP(PN) AND

DP (PNL) AND

900

FIG. 201C (CONT)

SYMBOLS USED:

X FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY, BUTTON OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.

+ FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "+" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS. ANY APPROPRIATE COMBINATION OF KEYS MARKED + MAY BE OPERATED.

0,* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "0" MUST BE OPERATED.

NOTES:

1. FOR EXTRA THEORETICAL NUMBERS, OPERATE (E) KEY IN ADDITION TO (OAT) OR (OBT) BUTTON OF (IC) KEY.
2. OPTION "RB" MAKES "MD" RC(11-15) KEYS
   OPTION "RC" PROVIDES RING. COMB. 11-15 ON RC(1-5) KEYS WITH OTRC KEY OPERATED.
   OPTION "RD" MAKES "MD" VF(0-4) KEYS
   OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF(0-4) KEYS
   OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS CSGA,CSGB KEYS.

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED		SEE NOTE	ITC & RN	FT	FU	VG	HG	VF	CST	CSU	IC	A	B	C	D	E	F	G	H	J	K	L	RC	(RC) CRU	FS	TS	OS	CH	JSQ	S	MF MB	TOM TRK MMDS OR MSG BILLING INDEX	TOM TRK TENS OR CODE POSITION	TANDEM TRUNK UNITS	LINE NO.
169																																					169
170																																					170
171	LINE VERIFICATION	NUMBER GROUP & CLASS OF SERVICE CROSS CONNECTIONS		1			LINE LOCATION				X	X	X	LINE NUMBER											X	X											171
172		NUMBER GROUP CLASS OF SERVICE AND AMA TRANSLATOR CROSS CONNECTIONS		1			LINE LOCATION				X	X	X	LINE NUMBER											X	X											172
173																																					173
174																																					174
175																																					175
176	TRANSVERTER TESTS	TRANSVERTER TEST	USING AMA RECORDER		X		ANY LINE LOCATION							← AS REQUIRED →																							176
177		TRANSVERTER TEST	SIMULATING AMA RECORDER		X		ANY LINE LOCATION							← AS REQUIRED →																							177
178		TRANSVERTER AND TRANSLATOR TEST		1	X		LINE LOCATION						X	LINE NUMBER																							178
179																																					179
180																																					180
181	ANI TRANSVERTER TESTS	ANI TRANSVERTER TEST					CALLING LINE LOCATION																										X	X			181
182		ANI TRANSVERTER TEST-TRANSLATOR LINE VERIFICATION		1			CALLING LINE LOCATION						X	CALLING LINE NUMBER																			X	X			182
183		ANI TRANSVERTER TEST - ANI TLV (RECYCLED FROM MLV STAGE OF VERIF.)		1			CALLING LINE LOCATION				X	X	X	CALLING LINE NUMBER																			X	X			183
184																																					184
185																																					185
186	PRETRANSLATOR TESTS	PRETRANSLATOR TEST												ANY CODE																							186
187																																					187
188																																					188
189																																					189
190																																					190
191																																					191
192																																					192
193																																					193
194																																					194
195																																					195
196																																					196

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF FIX SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3-DIGIT CODE AREA.

INC TRK CLASS OR RECORDER NO. | LINE LINK FRAME TENS | LINE LINK FRAME UNITS | VERTICAL GROUP | HORIZONTAL GROUP | VERT FILE (SEE NOTE 2) VERT FILE (CL TOM) | CL OF SERV TENS (CL TOM)(SEE NOTE 2) | CLASS OF SERVICE UNITS | INCOMING CLASS OF CALL | RINGING COMBINATION | RING COMB. RATE TREATMENT (SEE NOTE 2) | TRUNK LINK FRAME SELECTION | TRUNK OR ORIGINATING REGISTER SELECTION | OUTG SENDER SELECTION | CHANNEL SELECTION | JUNCTOR SEQUENCE SELECTION | SLEEVE | TOM TRK MMDS OR MSG BILLING INDEX | TOM TRK TENS OR CODE POSITION | TANDEM TRUNK UNITS

SWITCHES

CALLING NUMBER | SENDER GROUP | CAMA POSITION OR CENTREX POSITION | INFORMATION DIGIT | CONTROL DIGIT (EFFECTIVE IF 4W KEY IS OPERATED) | MARKER TRANSVERTER SELECTION | ROUTE ADVANCE | OFFICE UNITS | CENTREX POSITION LOOP

CM (A-G) SWITCHES | SG SWITCH | POS SWITCH | CBX SWITCH | CO SWITCH | MT SWITCH | BA SWITCH | OFU SWITCH | POS LOOP SWITCH

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

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MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-D42A

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SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

196	195	194	193	192	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	LINE NO.	
																												LP(0-11)	PROGRESS AND IDENTIFICATION LAMP CONTROL
																												NG(A-H)	ALLOTTED NUMBER GROUP SELECTION CONTROL
																												OD	OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"
													+	+	+													AD	AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"
																												-	
																												DNC	DENIED CODE
																												-	
																												LCD1	LOCAL CODE 1
																												LCD2	LOCAL CODE 2
																												ACD	AREA CODE
																												LOMI	LINE OBSERVING MATCHING 1
																												LOMO	LINE OBSERVING MATCHING 0
																												TI2	TROUBLE INDICATION 2 (AUTO. IDENT FAILURE IN DISTANT OFF)
																												TI1	TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)
																												-	
																												TI3	TROUBLE INDICATION 3 (CAMA SUPENSION COMPLETE FREE)
																												-	
																												ROP	RECORDER POSITION
																								x	x			OTRC	OVER TEN RINGING COMBINATION
																												-	
																												CAMO	CAMA INCOMING TANDEM SUPERVISION
																												CAM2	CAMA COMPLETING TANDEM SUPERVISION
																												CAMI	CAMA INCOMING TOLL SUPERVISION
																												CAM3	CAMA COMPLETING TOLL SUPERVISION
																												BI1	BILLING INDEXER 1
																												BIO	BILLING INDEXER 0
																												ANI	AUTO. NO. IDENT
													x	x	x													TVTC	CAMA TRANSVERTER CLASS OF TEST
																												VTC	VACANT TERMINATING CODE
																												FC	FREE CALL
																												-	
																												ORC0	ORIGINATING RATE CLASS 0
																												ORC1	ORIGINATING RATE CLASS 1
																												ORC2	ORIGINATING RATE CLASS 2
																												CAT	CAMA SENDER TIME OUT
																												CA	CALL ABANDONED
																												CAMS	CAMA SENDER CLASS OF TEST
																												IMT	CAMA INTERMARKER GROUP TRUNK CLASS OF TEST
																												ANY POS	ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION
																												TST POS	DIRECTS CAMA TEST CALL TO SIMULATED POSITION
																												SEL POS	DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR
																												OP	OUTPULSE
																												-	
																												LT3	PRIVATE LINE NET. (PREFIX DIGIT "8")
																												2DTO	TWO DIGIT TRANSLATOR, ORIGINATING CLASS
																												FS	FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)
																												NTFS	FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)
																												FG2	FRAME GROUP 2
																												FG0	FRAME GROUP 0
																												FG1	FRAME GROUP 1
																												TS	TRUNK SELECTION
																												NTTS	NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)
													x	x														ATLV	ANI TRANSVERTER LINE VERIFICATION
																												OSS	OUTSENDER SELECTION
																												SGB	SENDER GROUP B
																												SGA	SENDER GROUP A
																												GPB	ALLOTTER GROUP B — ON TESTS WHERE "X" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED
																												GPA	ALLOTTER GROUP A
																												RA1	ROUTE ADVANCE ONCE
																												RA0	NO ROUTE ADVANCE
																												RA3	ROUTE ADVANCE THREE TIMES
																												RA2	ROUTE ADVANCE TWICE
																												RBT	RETURN BUSY TONE (TROUBLE RELEASE)
																												TRR	TROUBLE RECORD (REGULAR RELEASE)
																												RLT	OPEN "RL" LEAD
																												HLD	HOLD
																												LTI	DIGIT "1" ACCESS CALL
																												LT2	ZERO PREFIX PPCS CALL
																												NID	NON-OPERATOR IDENTIFIED PPCS CALL
																												TCB	TRUNK CLASS B
																												FVDT	FIFTH DIGIT TRANSLATION
																												2DTT	2DT TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY)
										+																		PTR	OPEN "PTR" LEAD
										+																		IOD	OPERATOR IDENTIFIED PPCS CALL
										+																		PRL	OPEN "PRL" LEAD
														+	0													OT	OPEN TRANSMITTING LEADS
														+	0													RLK	OPEN "RLK" LEAD
														+	+													LK	OPEN LOCKING GROUND
															+													S2L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2
															+													S1L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1
															+													S4L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4
															+													S3L	STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3
															+													STE	STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY
															+													RTBL	RECORDER TROUBLE
																												TOF	TRANSLATOR OVERFLOW
															+													SFAL	STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY
															+													TICB	FALSE BATTERY ON "TIC" LEAD
																												TICG	FALSE GROUND ON "TIC" LEAD
																												-	
																												TRO	TRANSLATOR OPERATE
																												5DG	FIVE DIGIT NUMBER NO LETTERED STATION
																												4DG	FOUR DIGIT NUMBER NO LETTERED STATION
																												LST	LETTERED STATIONS LESS THAN 10,000 NUMBERS
																												LSD	LETTERED STATIONS MORE THAN 10,000 NUMBERS

SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 173 172 171 170 169 LINE NO.

FIG. 201C (CONT)

LEVER TYPE KEYS

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG. 201C (CONT)

196	195	194	193	192	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	LINE NO.
SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																												
																		X	X	X								TVT — TRANSVERTER CLASS OF TEST
										X																		PTT — PRETRANSLATOR CLASS OF TEST
																				X								TVT1 — TRANSVERTER TEST NO. 1 (USING AMA RECORDER)
																		X						X				TLV — TRANSLATOR LINE VERIFICATION
																												SDT2 — SENDER TEST NO. 2 (OVERFLOW)
																												SDT1 — SENDER TEST NO. 1 (REGULAR RELEASE)
																												SDT3 — SENDER TEST NO. 3 (DELAYED PULSING)
																				+								RMB — RECORDER MAKE BUSY
													+	+				+						X				OFF1 — ORIGINATING OFFICE GROUP 1
																												OFF0 — ORIGINATING OFFICE GROUP 0
																												OFF3 — ORIGINATING OFFICE GROUP 3
																												OFF2 — ORIGINATING OFFICE GROUP 2
																												OFF5 — ORIGINATING OFFICE GROUP 5
																												OFF4 — ORIGINATING OFFICE GROUP 4
														+	+													OBS — OBSERVING (4 LINE ENTRY)
																												DT — MARKER TEST, DIAL TONE CLASS
																												ORIG — MARKER TEST, ORIGINATING CLASS
																												INC — MARKER TEST, INCOMING CLASS
																												SDT — SENDER TEST CLASS
																												OR — ORIGINATING REGISTER TEST CLASS
																												SDR — SENDER TEST CLASS
																												IR — INCOMING REGISTER TEST CLASS
																												IMS — INTERMARKER GROUP SENDER TEST CLASS
																												OGT — OUTGOING TRUNK TEST CLASS
																												MISC — MISCELLANEOUS TRUNK TEST CLASS
																												IAO — INTRAOFFICE OR INTERMARKER GROUP TRUNK TEST CLASS
																												IIDO — INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
																												ATNT — CENTREX ATTENDANT TRUNK TEST CLASS
																												ITNP — INCOMING TRUNK - NO PULSING TEST CLASS
																								X	X			MLV — MARKER LINE VERIFICATION
																												LT — LINE TEST
																												TTL — TERMINATING TEST LINE
																												BB — BUSY BACK
																												KY — CONNECT NUMBER KEYS
																												KRC — CONNECT NUMBER & RINGING COMBINATION KEYS
																												TOBS — TRUNK OBSERVING
																												CAM / FAD / HFA — SIMULATES GROUND FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER — SEE NOTE 1
																												(CGB) / CSGA — CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A"
														X										X	X			CSGB — CLASS OF SERVICE RATE GROUP "B"
																												TTI — TOLL TRANSLATOR, INCOMING CLASS
																												E — EXTRA THEORETICAL
																												FAB — FOREIGN AREA TRANSLATOR B
																												FAA — FOREIGN AREA TRANSLATOR A
																												STP2 — JUNCTOR SEQUENCE STEP, POSITION 2
																												STP1 — JUNCTOR SEQUENCE STEP, POSITION 1
																												EBH — END OF BLOCK HUNT
																												PBXH — PBX HUNT
																												FACD — FOREIGN AREA CUSTOMER DIALING
																												PTL — TEST PTL TUBE
																												GT — OPERATE TEST OF MARKER (GT) RELAY
																												FCG — OPERATE TEST OF MARKER (FCG) RELAY
																												LGT — LOOP GROUND TEST
																												TCT — TEST CONTINUITY TUBE
																												HTR — HEAVY TRAFFIC
																												TC — TEST CONTINUITY
																												CON — LOOP CONTINUITY TEST
																												RV — REVERSE CONTINUITY TEST
																												LBL — LINE BUSY AT LINE LINK FRAME
																												PU — OPERATE TEST OF MARKER (PU) RELAY
																												XLH — CROSSED LINE HOLD MAGNET
																												LB — LINE BUSY
										+								+	+	+								TR2 — SECOND TRIAL
																												TRS — TRANSFER START LEAD
																												MF — MULTIFREQUENCY LINE FRAME
																												MLF — MIXED LINE FRAME
																												CNR — COIN RETURN
																												SCN — STUCK COIN
																												PS — PERMANENT SIGNAL
																												PD — PARTIAL DIAL
														+	+	+		+	+	+								TP — TIP PARTY
										+																		PMM — PARTY MISMATCH
																												II — II PREFIX
																												XII — 3 DIGIT SERVICE CODE
																												2DT — TWO DIGIT TANDEM
																												2DTT — TWO DIGIT TRANSLATOR, INCOMING CLASS
																												FNB — FREE NUMBER B
																												FNA — FREE NUMBER A
																												PCD — PULSE CONVERSION DIAL, FIRST SENDER GROUP
																												PCD1 — PULSE CONVERSION DIAL, SECOND SENDER GROUP
																												THC — THEORETICAL CALL
																												PHC — PHYSICAL CALL
																												DCK — LINK DOUBLE CONNECTION
																												LR — LINK RELEASE
																												ROT — RECORDER TEST
																												OCN — ODD CONNECTION
																												RO — RECORDER
																												ND — NO DIGIT
																												NH — NEITHER NO TEST NOR NO HUNT
																												NGT — NUMBER GROUP SELECTION (PULL OUT NG(A-H) KEYS AS REQD)
																												NT — NO TEST
																												NH — NO HUNT
																												SPL — SPECIAL
																												NTC — NO TEST CONNECTOR
SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																												
196	195	194	193	192	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	LINE NO.

LEVER TYPE KEYS (CONT)

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG. 201C (CONT)

LEVER TYPE KEYS (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

LINE NO.																										
196	195	194	193	192	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	
																												RTO ORIGINATING REGISTER ROUTE "0"
																												RT1 ORIGINATING REGISTER ROUTE "1"
																												RT2 ORIGINATING REGISTER ROUTE "2"
																												RT3 ORIGINATING REGISTER ROUTE "3"
																												4W 4 WIRE
																												-
																												CONA NORMAL-TEST (CON) TUBE OPERATED-TEST (CONA) TUBE — USE IN CONJUNCTION WITH (CON) AND (TCT) KEYS
																												FCGA OPERATE TEST-MARKER (FCGA) RELAY
																												-
																												NGPB NUMBER GROUP "B"
																												NGPA NUMBER GROUP "A"
																												ECHO SUPPRESSOR CONTROL TESTS
																												LES GROUND ON LINE LINK "ES" LEAD
																												NLES MISSING GROUND ON LINE LINK "ES" LEAD
																												TES GROUND ON TRUNK LINK "ES" LEAD
																												NTES MISSING GROUND ON TRUNK LINK "ES" LEAD
																												GESK FALSE GROUND ON "ESK" LEAD
																												OESK OPEN "ESK" LEAD
																												OFT1 OFFICE TENS "1"
																												OFT2 OFFICE TENS "2"
																												TST CNSL TEST CONSOLE
																												-
																												ATC ATTENDANT CLASS
																												TRF TRANSFER CLASS
																												CDN LISTED DIRECTORY NUMBER
																												CGLS CUSTOMER GROUP LINE SIMULATED
																												CNTX CENTREX
																												-
																												NFG0 NFG1 NFG2 NUMBER GROUP FRAME SELECTION
																												608 608 CORD BOARD OPERATION
																												-
																												CDA SW 4-WIRE ROUTE CONTROL DIGIT
																												TBS SW TENS BLOCK SCREENING
																												TERT SW TERMINATING TREATMENT
																												TBT SW NUMBER GROUP TENS BLOCK TENS
																												TBU SW NUMBER GROUP TENS BLOCK UNITS
																												LLP LINE LINK PULSING
																												NG1K FIRST NUMBER GROUP USAGE CHECK
																												NTLS NO TEST LLP LINE CKT SELECTION
																												NG2K SECOND NUMBER GROUP USAGE CHECK
																												RIP RESTRICTED INTERCEPT PBX
																												-
																												ST SEL SW START LEAD SELECT
																												CTAD CONTROLLED ADVANCE
																												STAA AUTOMATIC ADVANCE START
																												IST INDIVIDUAL START
																												STAD START ADVANCE
																												STRC START RECYCLE
																												PER PRE-EMPTION REGISTER TEST
																												PEMT PRE-EMPTION MARKER TEST
																												DL3 DELETE 3
																												DL6 DELETE 6
																												OI1 AIOD OFFICE INDEX "1"
																												OI2 AIOD OFFICE INDEX "2"
																												THTI THOUSANDS DIGIT TRUNK NUMBER
													+	+	+			+	+	+					+	+			-
													+	+	+			+	+	+					+	+			REC TROUBLE RECORD
											X		X	X	X			X	X	X					X	X			REP REPEAT TEST
											X		X	X	X			X	X	X					X	X			RL RELEASE
											X		X	X	X			X	X	X					X	X			ST START AND ADVANCE
196	195	194	193	192	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	LINE NO.

EFFECTIVE IF (LTW) KEY IS OPERATED

CENTREX TESTS

LINE LINK PULSING

CONF CONT

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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FIG. 201D - OPERATION OF KEYS FOR SETTING UP TYPICAL CAMA TESTS

SYMBOLS USED:

X FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "X" INDICATES THAT ONE KEY, BUTTON, OR SWITCH AT THE TOP OF THAT COLUMN BE OPERATED.

* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE EACH "*" INDICATES THAT ONE KEY OR BUTTON AT THE TOP OF THAT COLUMN MAY BE USED TO OBTAIN SUPPLEMENTARY TESTS ANY APPROPRIATE COMBINATION OF KEYS MARKED "*" MAY BE OPERATED.

0.* FOR THE TEST SHOWN ON ANY HORIZONTAL LINE ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "*" AND ONE OF THE KEYS AT THE TOP OF THE COLUMNS MARKED "0" MUST BE OPERATED

NOTES:

1. ON MARKER TESTS ON CAMA CALLS THAT DO NOT REQUIRE A CAMA SENDER (10X CALLS) THE (CAT) KEY MUST BE OPERATED.
2. OPTION "RB" MAKES "MD" RC(11-15) KEYS
   OPTION "RC" PROVIDES RING.COMB. 11-15 ON RC(1-5) KEYS WITH OTRC KEY OPERATED.
   OPTION "RD" MAKES "MD" VF(0-4) KEYS
   OPTION "RE" PROVIDES CLASS TANDEM 0-4 ON VF(0-4) KEYS
   OPTION "RH" PROVIDES CLASS OF SERVICE RATE TREATMENT KEYS CRU(0-9) AND CLASS OF SERVICE RATE GROUPS CSGA, CSGB KEYS.

INTERLOCKING PUSHBUTTON TYPE KEYS

CODE AND DIGIT KEYS

REGARDLESS OF THE NUMBER OF CODE DIGITS AND NUMERICS USED ON ANY TEST CALL, EXCLUSIVE OF 11X SERVICE CALLS, THEY ARE ALWAYS SET UP CONSECUTIVELY BEGINNING AT "A". THE CHART BELOW IS REPRESENTATIVE OF A 3 DIGIT CODE AREA.

LINE NO.	CLASS OF TEST	FEATURE OR EQUIPMENT TO BE TESTED	SEE NOTE	INC TRK CLASS OR RECORDER NO. ITC &RN	LINE LINK FRAME TENS FT	LINE LINK FRAME UNITS FU	VERTICAL GROUP VG	HORIZONTAL GROUP HG	VERT FILE (SEE NOTE 2) VERT FILE (CL TOM) VF	CL OF SERV TENS (CL TOM) (SEE NOTE 2) CST	CLASS OF SERVICE UNITS CSU	INCOMING CLASS OF CALL IC	A	B	C	D	E	F	G	H	J	K	L	RC	RC (SEE NOTE 2) CRU	TRUNK LINK FRAME SELECTION FS	TRUNK OR ORIGINATING REGISTER SELECTION TS	OUTG SENDER SELECTION OS	CHANNEL SELECTION CH	JUNCTOR SEQUENCE SELECTION JSQ	SLEEVE S	TOM TRK HUNDS OR MSG BILLING INDEX HT & MB	TOM TRK TENS OR CODE POSITION TT & CP	TANDEM TRUNK UNITS UT	LINE NO.
197																																			197
198																																			198
199																																			199
200																																			200
201	CAMA CLASS CALLS	MARKER FIRST USAGE (TOL SUPERVISION)		X									AS REQUIRED														+				X	X	X		201
202		MARKER FIRST USAGE (TAN SUPERVISION)		X									AS REQUIRED														+				X	X	X		202
203		MARKER SECOND USAGE (TANDEM COMPLETING)											AS REQUIRED													X					X	X	X		203
204		MARKER SECOND USAGE (LOCAL COMPLETING)											AS REQUIRED													X									204
205		MARKER SECOND USAGE (TOLL COMPLETING)											AS REQUIRED																		X	X	X		205
206		CAMA SENDER (REG TRANSVERTER REL)		X									AS REQUIRED														+				X	X	X		206
207		CAMA SENDER (TRBL REL FROM TRANSV)		X									AS REQUIRED														+				X	X	X		207
208		REORDER TEST		X									AS REQUIRED														+				X	X	X		208
209		CAMA JUNCTOR (TANDEM COMPLETING)								X	X		AS REQUIRED													X	X	X							209
210		INC TRUNK TEST											AS REQUIRED																						210
211		CAMA TRANSVERTER TEST		X									AS REQUIRED																						211
212		RECORDER CONNECTOR TEST		X						X	X		AS REQUIRED													X									212
213		BILLING INDEXER TEST		X						X	X		AS REQUIRED													X									213
214		LINE OBSERVING MATCHING CKT TEST		X						X	X		AS REQUIRED													X									214
215		CAMA SENDER TEST USING JUNCTORS								X	X		AS REQUIRED													x	+	+							215
216		OUTG TRK TEST FOR CAMA JUNCTORS								X	X		AS REQUIRED													x	x	x	+						216
217		MARKER TEST WITH CAMA JUNCTORS			X	X	X	X	X	X	X		AS REQUIRED													x	+	+							217
218		INTERMARKER GROUP TRUNK											AS REQUIRED														x		+							218
219		INCOMING REGISTER (USING AUTO. MON. REG & SDR TEST CKT ONLY)							+	+			AS REQUIRED																						219
220																																			220
221																																			221
222																																			222
223																																			223
224																																			224

SWITCHES

CM (A-G) SWITCHES	CALLING NUMBER
SG SWITCH	SENDER GROUP
POS SWITCH	CAMA POSITION OR CENTREX POSITION
CRX SWITCH	INFORMATION DIGIT
CO SWITCH	CONTROL DIGIT (EFFECTIVE IF 4W KEY IS OPERATED)
MT SWITCH	MARKER TRANSVERTER SELECTION
RA SWITCH	ROUTE ADVANCE
OPU SWITCH	OFFICE UNITS
POS LOOP SWITCH	CENTREX POSITION LOOP

SEE FOLLOWING SHEETS FOR ADDITIONAL TESTS TO BE OPERATED FOR EACH TEST

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FIG. 2010 (CONT)

224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	LINE NO.
SEE PRECEDING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																												
																												LP(0-11) — PROGRESS AND IDENTIFICATION LAMP CONTROL
																												NG(A-H) — ALLOTTED NUMBER GROUP SELECTION CONTROL
																												OD — OPERATOR IDENTIFIED OR RECORDER TENS DIGIT "0"
												+	+	+	+		+	+				+	+					AD — AUTOMATIC IDENTIFIED OR RECORDER TENS DIGIT "1"
																												-
												+	+						+	+	+							DNC — DENIED CODE
																												-
												*	*						*	*	*							LCD1 — LOCAL CODE 1
												*	*						*	*	*							LCD2 — LOCAL CODE 2
												*	*						*	*	*							ACD — AREA CODE
										*																		LOM1 — LINE OBSERVING MATCHING 1
										*																		LOM0 — LINE OBSERVING MATCHING 0
													+															TI2 — TROUBLE INDICATION 2 (AUTO IDENT FAILURE IN DISTANT OFF)
													+															TI1 — TROUBLE INDICATION 1 (SENDER REQUESTS TBL RECORD)
																												-
													+															TI3 — TROUBLE INDICATION 3 (CAMA SUSPENSION COMPLETE FREE)
																												-
													+															ROP — REORDER POSITION
																												OTRC — OVER TEN RINGING COMBINATION
																												-
					*	*	*	*	x					*	*	x	*	*					x						CAM0 — CAMA INCOMING TANDEM SUPERVISION
																					x	x						CAM2 — CAMA COMPLETING TANDEM SUPERVISION
					*	*	*	*						*	*		*	*						x				CAM1 — CAMA INCOMING TOLL SUPERVISION
																			x									CAM3 — CAMA COMPLETING TOLL SUPERVISION
											*																	BI1 — BILLING INDEXER 1
											*																	BI0 — BILLING INDEXER 0
										x	x	x	x															ANI — AUTO. NO. IDENT
												+	+							+	+	+						CAMA — CAMA
												+	+							+	+	+						VTC — VACANT TERMINATING CODE
																												FC — FREE CALL
																												-
												o	o				o	o				*	*					ORC0 — ORIGINATING RATE CLASS 0
												o	o				o	o				*	*					ORC1 — ORIGINATING RATE CLASS 1
												o	o				o	o				*	*					ORC2 — ORIGINATING RATE CLASS 2
																	+	+					+					CAT — CAMA SENDER TIME OUT
														+	+		+	+										CA — CALL ABANDONED
																x	x	x										CAMS — CAMA SENDER CLASS OF TEST
					x																							IMT — CAMA INTERMARKER GROUP TRUNK CLASS OF TEST
																												ANY POS — ALLOWS CAMA SENDER TO SELECT POSITION IN NORMAL FASHION
					+	+		+									+	+										TST POS — DIRECTS CAMA TEST CALL TO SIMULATED POSITION
																												SEL POS — DIRECTS CAMA TEST CALL TO PARTICULAR CAMA POSITION OPERATOR
					+									+	+													OP — OUTPULSE
																												-
																												LT3 — PRIVATE LINE NET.(PREFIX DIGIT "8")
																												2DTO — TWO DIGIT TRANSLATOR, ORIGINATING CLASS
						+		+							+													FS — FRAME SELECTION (TEST FIRST FOR IDLE TRUNKS)
						+	x	+							+													NTFS — FRAME SELECTION (NO TEST FIRST FOR IDLE TRUNKS)
																												FG2 — FRAME GROUP 2
						+	x	+							+													FG 0 — FRAME GROUP 0
																												FG 1 — FRAME GROUP 1
						+	x	+							+													TS — TRUNK SELECTION
						+		+							+													NTTS — NO TEST TRUNK SELECTION (OVERRIDE MANUAL MAKE BUSY)
																												ATLV — ANI TRANSVERTER LINE VERIFICATION
					+		+	+									+	+	+				+	+				OSS — OUTSENDER SELECTION
					+		+	+									+	+	+				+	+				SGB — SENDER GROUP B
					+		+	+									+	+	+				+	+				SGA — SENDER GROUP A
							x																					GPB — ALLOTTER GROUP B; GPA — ALLOTTER GROUP A (ON TESTS WHERE "x" IS SHOWN THIS KEY NEED BE OPERATED ONLY IF ROUTE IS ALLOTTED)
								x																				RA1 — ROUTE ADVANCE ONCE
																												RA0 — NO ROUTE ADVANCE
																												RA3 — ROUTE ADVANCE THREE TIMES
																												RA2 — ROUTE ADVANCE TWICE
																												RBT — RETURN BUSY TONE (TROUBLE RELEASE)
																												TPR — TROUBLE RECORD (REGULAR RELEASE)
																												RLT — OPEN "RL" LEAD
																												HLD — HOLD
																												LT1 — DIGIT "1" ACCESS CALL
																												LT2 — ZERO PREFIX PPCS CALL
																												NID — NON-OPERATOR IDENTIFIED PPCS CALL
																x	x	x	x	x	x	x	x					TCB — TRUNK CLASS 6
																												FYDT — FIFTH DIGIT TRANSLATION
																												2DTT — 2DT TRANSLATOR (OPERATED INSTEAD OF BUTTON ON IC KEY)
																												PYR — OPEN "PTR" LEAD
																												IOD — OPERATOR IDENTIFIED PPCS CALL
																												PRL — OPEN "PRL" LEAD
																												OT — OPEN TRANSMITTING LEADS
																												RLK — OPEN "RLK" LEAD
																												LK — OPEN LOCKING GROUND
													+															S2L — STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 2
													+															S1L — STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 1
													+															S4L — STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 4
													+															S3L — STOP TRANSVERTER FOR RECORD OF ENTRY LINE NO. 3
													+															STE — STOP TRANSVERTER FOR RECORD OF TROUBLE ENTRY
																												RTBL — RECORDER TROUBLE
																												TOF — TRANSLATOR OVERFLOW
													+															SFAL — STOP TRANSVERTER FOR RECORD OF FOREIGN AREA ENTRY
													+															TICB — FALSE BATTERY ON "TIC" LEAD
													+															TICG — FALSE GROUND ON "TIC" LEAD
																												-
																												TRO — TRANSLATOR OPERATE
																												5DG — FIVE DIGIT NUMBER NO LETTERED STATION
																												4DG — FOUR DIGIT NUMBER NO LETTERED STATION
																												LST — LETTERED STATIONS LESS THAN 10,000 NUMBERS
																												LSD — LETTERED STATIONS MORE THAN 10,000 NUMBERS
SEE FOLLOWING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST																												
224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	LINE NO.

PUSHBUTTON KEYS

LEVER TYPE KEYS

MASTER TEST CONTROL CIRCUIT

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FIG. 2010 (CONT)

LEVER TYPE KEYS (CON'T)

SEE PRECEEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	LINE NO.
																												TVT / TRANSVERTER CLASS OF TEST
										+	+	×	+															PTT / PRETRANSLATOR CLASS OF TEST
										+	+		+				×		×									TVT1 / TRANSVERTER TEST NO. 1 (USING AMA RECORDER)
									*							×												TLV / TRANSLATOR LINE VERIFICATION
									*																			SDT2 / SENDER TEST NO. 2 (OVERFLOW)
										+	+	+	+															SDT1 / SENDER TEST NO. 1 (REGULAR RELEASE)
													+															SDT3 / SENDER TEST NO. 3 (DELATED PULSING)
							+		+	+	+	+	+		+		+											RMB / RECORDER MAKE BUSY
																												OFF1 / ORIGINATING OFFICE GROUP 1
																												OFF0 / ORIGINATING OFFICE GROUP 0
																												OFF3 / ORIGINATING OFFICE GROUP 3
																												OFF2 / ORIGINATING OFFICE GROUP 2
																												OFF5 / ORIGINATING OFFICE GROUP 5
																												OFF4 / ORIGINATING OFFICE GROUP 4
																												-
							+		+	+	+	+	+		+		+											OBS / OBSERVING (1 LINE ENTRY)
							×																					DT / MARKER TEST, DIAL TONE CLASS
																			×	×	×	×	×					ORIG / MARKER TEST, ORIGINATING CLASS
																												INC / MARKER TEST, INCOMING CLASS
																												SDT / SENDER TEST CLASS
									×																			OR / ORIGINATING REGISTER TEST CLASS
						×																						SDR / SENDER TEST CLASS
								×																				IR / INCOMING REGISTER TEST CLASS
															×													IMS / INTERMARKER GROUP SENDER TEST CLASS
														×														OGT / OUTGOING TRUNK TEST CLASS
																												MISC / MISCELLANEOUS TRUNK TEST CLASS
																												IAO / INTRAOFFICE OR INTERMARKER GROUP TRUNK TEST CLASS
																												ITDO / INCOMING TRUNK IN DISTANT OFFICE TEST CLASS
																												ATNT / CENTREX ATTENDANT TRUNK TEST CLASS
														×														ITNP / INCOMING TRUNK - NO PULSING TEST CLASS
																												MLV / MARKER LINE VERIFICATION
																												LT / LINE TEST
								×																				TTL / TERMINATING TEST LINE
														×	×													BB / BUSY BACK
																												KY / CONNECT NUMBER KEYS
																												KRC / CONNECT NUMBER & RINGING COMBINATION KEYS
																												-
							+		+						+													TOBS / TRUNK OBSERVING
							+		+						+													CAM / FAD / HFA SIMULATES GROUND FROM SERVICE OBSERVING REGISTER CONNECTOR CIRCUIT TO THE MARKER
						(+)	×	×	×	×	×	×			×													(CGB) / CSGA CLASS GROUP (NORMAL FOR CGA, OPERATE FOR CGB) CLASS OF SERVICE RATE GROUP "A" SEE NOTE 1
							×	×	×	×	×	×			×													CSGB / CLASS OF SERVICE RATE GROUP "B"
																												TTI / TOLL TRANSLATOR, INCOMING CLASS
																												E / EXTRA THEORETICAL
																												FAB / FOREIGN AREA TRANSLATOR B
																												FAA / FOREIGN AREA TRANSLATOR A
																												STP2 / JUNCTOR SEQUENCE STEP, POSITION 2
																												STP1 / JUNCTOR SEQUENCE STEP, POSITION 1
																												EBH / END OF BLOCK HUNT
																												PBXH / PBX HUNT
																												FACD / FOREIGN AREA CUSTOMER DIALING
																												PTL / TEST PTL TUBE
																												GT / OPERATE TEST OF MARKER (GT) RELAY
																												FCG / OPERATE TEST OF MARKER (FCG) RELAY
																												LGT / LOOP GROUND TEST
																												TCT / TEST CONTINUITY TUBE
																												HTR / HEAVY TRAFFIC
																												TC / TEST CONTINUITY
																												CON / LOOP CONTINUITY TEST
																												RV / REVERSE CONTINUITY TEST
																												LBL / LINE BUSY AT LINE LINK FRAME
																												PU / OPERATE TEST OF MARKER (PU) RELAY
																												XIH / CROSSED LINE HOLD MAGNET
										+	+	+	+															LB / LINE BUSY
										+	+	+	+															TR2 / SECOND TRIAL
																												TRS / TRANSFER START LEAD
																												MF / MULTIFREQUENCY LINE FRAME
																												MLF / MIXED LINE FRAME
																												CNR / COIN RETURN
																												SCN / STUCK COIN
																												PS / PERMANENT SIGNAL
																												PD / PARTIAL DIAL
																												TP / TIP PARTY
																												PMM / PARTY MISMATCH
																												II / II PREFIX
																												XII / 3 DIGIT SERVICE CODE
																												2DT / TWO DIGIT TANDEM
																												2DTI / TWO DIGIT TRANSLATOR, INCOMING CLASS
																												FNB / FREE NUMBER B
																												FNA / FREE NUMBER A
																												PCD / PULSE CONVERSION DIAL, FIRST SENDER GROUP
																												PCDI / PULSE CONVERSION DIAL, SECOND SENDER GROUP
																												THC / THEORETICAL CALL
																												PHC / PHYSICAL CALL
																												DCK / LINK DOUBLE CONNECTION
																												LR / LINK RELEASE
																												ROT / REORDER TEST
																×												OCN / ODD CONNECTION
																												RO / REORDER
																												ND / NO DIGIT
																												NN / NEITHER NO TEST NOR NO HUNT
																												NGT / NUMBER GROUP SELECTION (PULL OUT NG (A-H) KEYS AS REQD)
																												NT / NO TEST
																												NH / NO HUNT
						+																						SPL / SPECIAL
																												NTC / NO TEST CONNECTOR

SEE FOLLOWING SHEET FOR ADDITIONAL KEYS TO BE OPERATED FOR EACH TEST

224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	LINE NO.

BELL TELEPHONE LABORATORIES INCORPORATED

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D43C

65

80

DRAWING ISSUE 800 5ID

H G F E D C B A

FIG. 201D (CONT)

SEE PRECEDING SHEETS FOR ADDITIONAL KEYS TO BE OPERATED ON EACH TEST

Key	Description	224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197
RTO	ORIGINATING REGISTER ROUTE "0"																												
RT1	ORIGINATING REGISTER ROUTE "1"																												
RT2	ORIGINATING REGISTER ROUTE "2"																												
RT3	ORIGINATING REGISTER ROUTE "3"																												
4W	4-WIRE																												
-																													
CONA	NORMAL TEST (CON) TUBE / OPERATED TEST (CONA) TUBE — USED IN CONJUNCTION WITH (CON) AND (TCT) KEYS																												
FCGA	OPERATE TEST - MARKER (FCGA) RELAY																												
-																													
NGPB	NUMBER GROUP "B"																												
NGPA	NUMBER GROUP "A"																												
LES	GROUND ON LINE LINK "ES" LEAD																												
NLES	MISSING GROUND ON LINE LINK "ES" LEAD																												
TES	GROUND ON TRUNK LINE "ES" LEAD																												
NTES	MISSING GROUND ON TRUNK LINK "ES" LEAD																												
GESK	FALSE GROUND ON "ESK" LEAD																												
OESK	OPEN "ESK" LEAD																												
OFT1	OFFICE TENS "1"																												
OFT2	OFFICE TENS "2"																												
TST CNSL	TEST CONSOLE																												
-																													
ATC	ATTENDANT CLASS																												
TRF	TRANSFER CLASS																												
CDN	LISTED DIRECTORY NUMBER																												
CGLS	CUSTOMER GROUP LINE SIMULATED																												
CNTX	CENTREX																												
-																													
NFG0 / NFG1 / NFG2	NUMBER GROUP FRAME SELECTION																												
608	608 CORD BOARD OPERATION																												
-																													
TBS SWITCH	TENS BLOCK SCREENING																												
TERT SWITCH	TERMINATING TREATMENT																												
TBT SWITCH	NUMBER GROUP TENS BLOCK TENS																												
TBU SWITCH	NUMBER GROUP TENS BLOCK UNITS																												
LLP	LINE LINK PULSING																												
NG1K	FIRST NUMBER GROUP USAGE CHECK																												
NTLS	NO TEST LLP LINE CKT. SELECTION																												
NG2K	SECOND NUMBER GROUP USAGE CHECK																												
RIP	RESTRICTED INTERCEPT PBX																												
-																													
ST SEL SWITCH	START LEAD SELECT																												
CTAD	CONTROLLED ADVANCE																												
STAA	AUTOMATIC ADVANCE START																												
-																													
IST	INDIVIDUAL START																												
STAD	START ADVANCE																												
STRC	START RECYCLE																												
CDA SWITCH	4-WIRE ROUTE CONTROL DIGIT																												
OI1	AIOD OFFICE INDEX "1"																												
OI2	AIOD OFFICE INDEX "2"																												
PERT	PRE-EMPTION REGISTER TEST																												
PEMT	PRE-EMPTION MARKER TEST																												
DL3	DELETE 3																												
DL6	DELETE 6																												
THT1	THOUSANDS DIGIT TRUNK NUMBER																												
-																													
REC	TROUBLE RECORD							•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•				
REP	REPEAT TEST						•																						
RL	RELEASE						X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X				
ST	START AND ADVANCE												X	X	X	X	X	X	X	X	X	X	X	X	X				
MF SWITCH	MULTI-FREQUENCY SWITCH OF SD-25988-01							•	•		•					•	•	•	•	•									

EFFECTIVE IF (4W) KEY IS OPERATED

ECHO SUPRESSOR CONTROL TESTS

LEVER TYPE KEYS (CONT)

CENTREX TESTS

LINE LINK PULSING

CONF CONT

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

(2) 6S

SD-25800-01-D43D

80

DRAWING ISSUE		
03	510	AMP
DP	560	AMP
	80D	

DRAWING ISSUE
51D GAV TRL AHP

CB

FIG. 202
D'T CLASS OF MARKER TEST

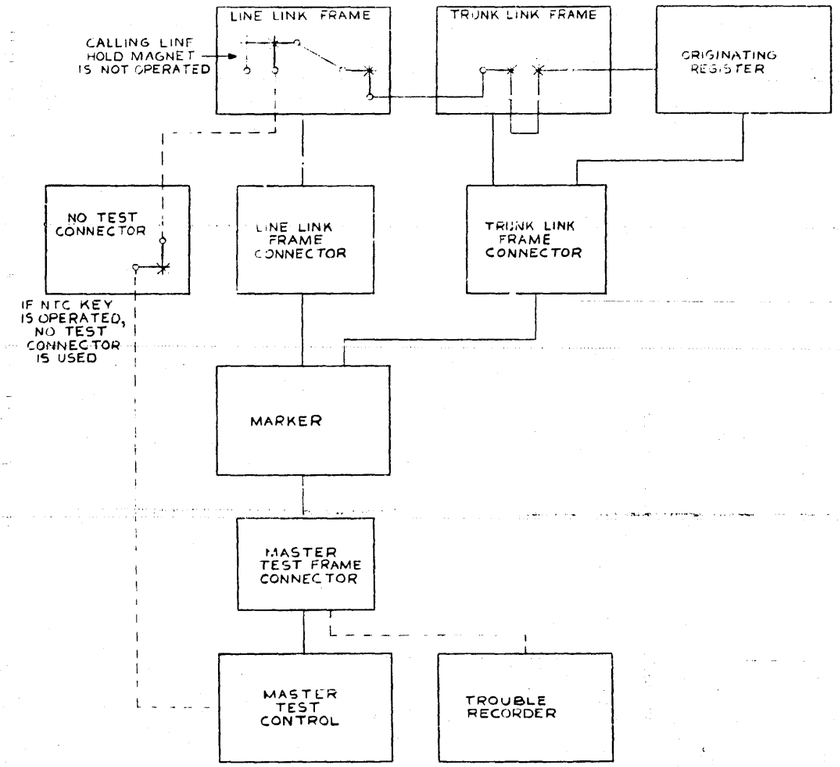
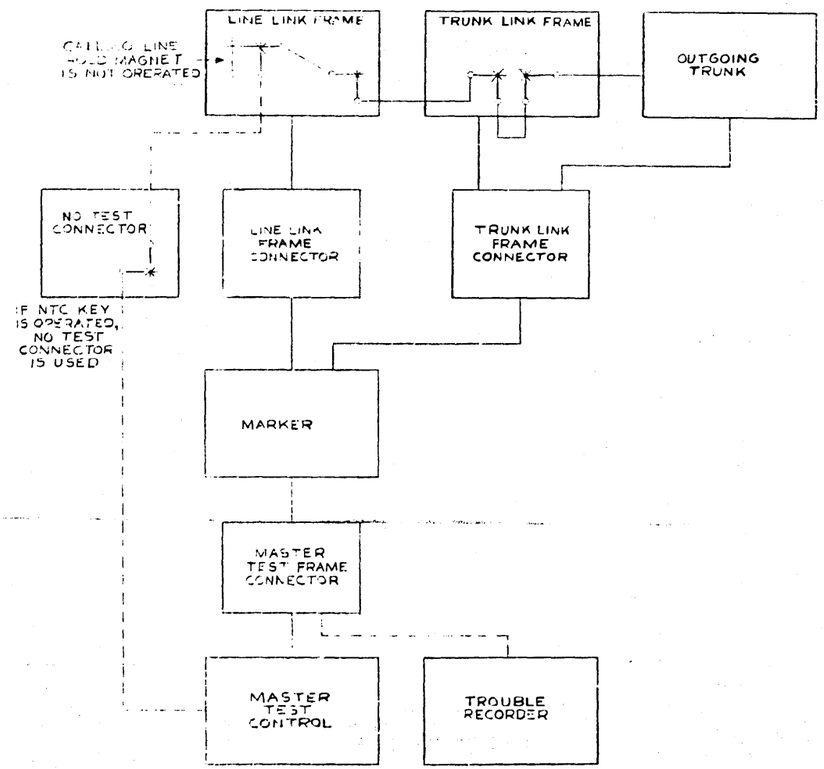


FIG. 203
ORIG. CLASS OF MARKER TEST OUTGOING TRUNK WITHOUT SENDER



51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D45
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D45

DRAWING ISSUE
51 D PNR EPW AMB

FIG. 204

ORIG. CLASS OF MARKER TEST
OUTGOING OR INTERMARKER GROUP TRUNK WITH SENDER

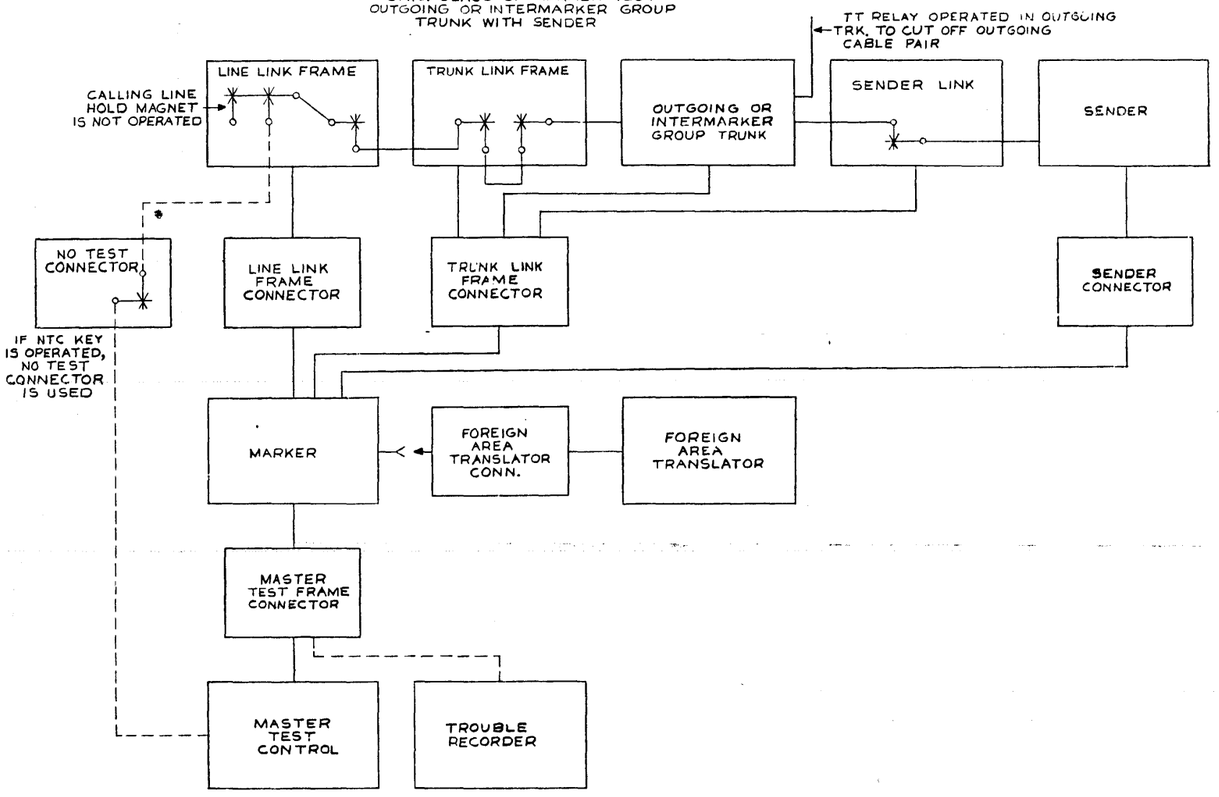
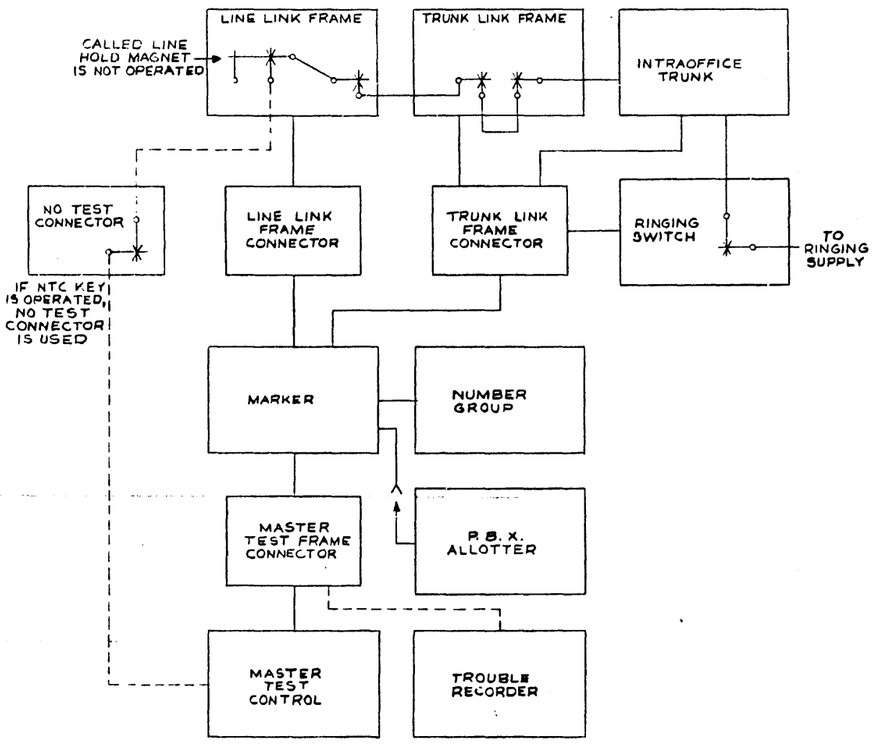


FIG. 205

ORIG. CLASS OF MARKER TEST
INTRAOFFICE TRUNK TERMINATING STAGE



51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D46

BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D46

DRAWING ISSUE
5ID RNO RAW RNP 8

FIG. 206

ORIG. CLASS OF MARKER TEST
INTRAOFFICE TRK. ORIG. STAGE

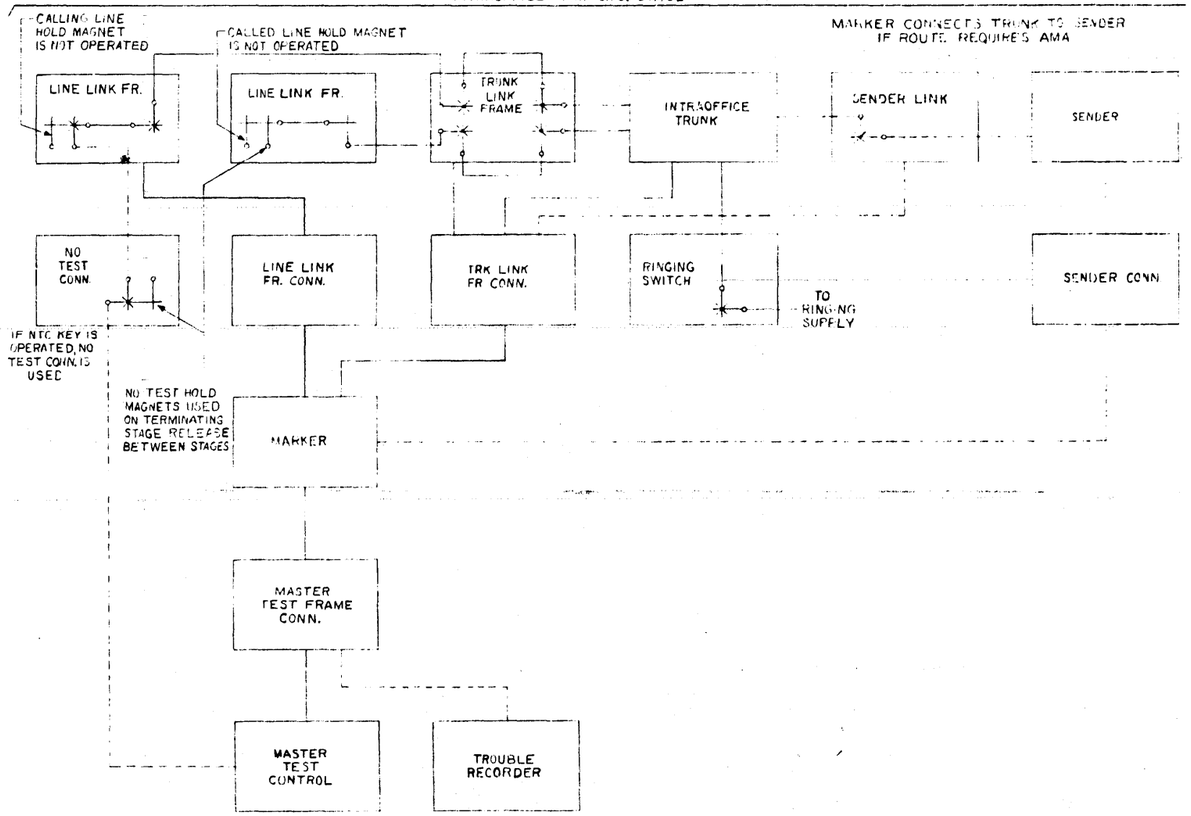
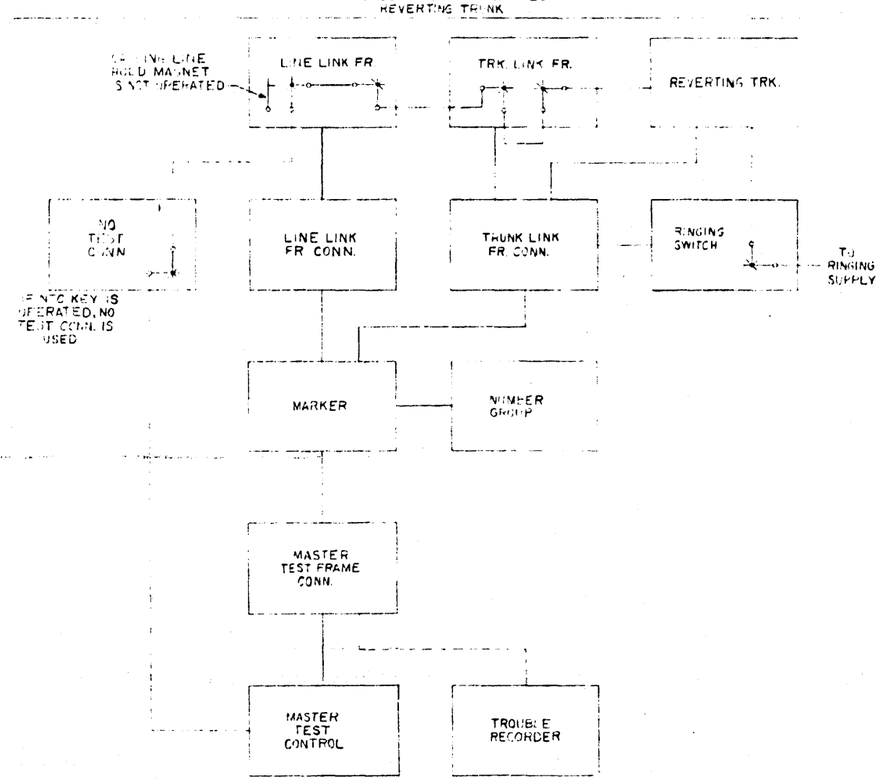


FIG. 207

ORIG. CLASS OF MARKER TEST
REVERTING TRUNK



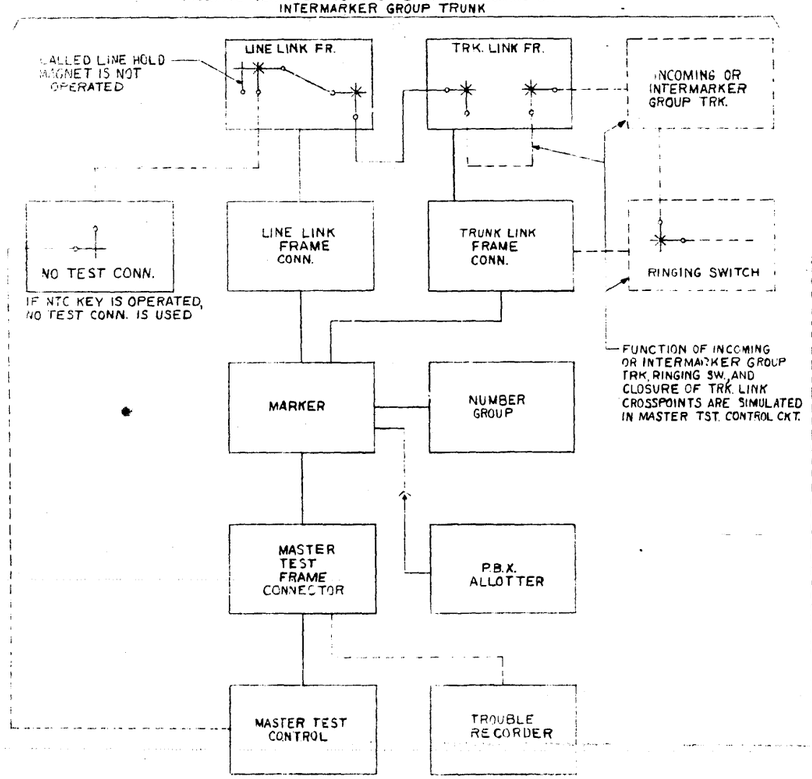
CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D47

BELL TELEPHONE LABORATORIES INCORPORATED
PAGE SIZE 6S

SD-25800-01-D47

FIG. 208

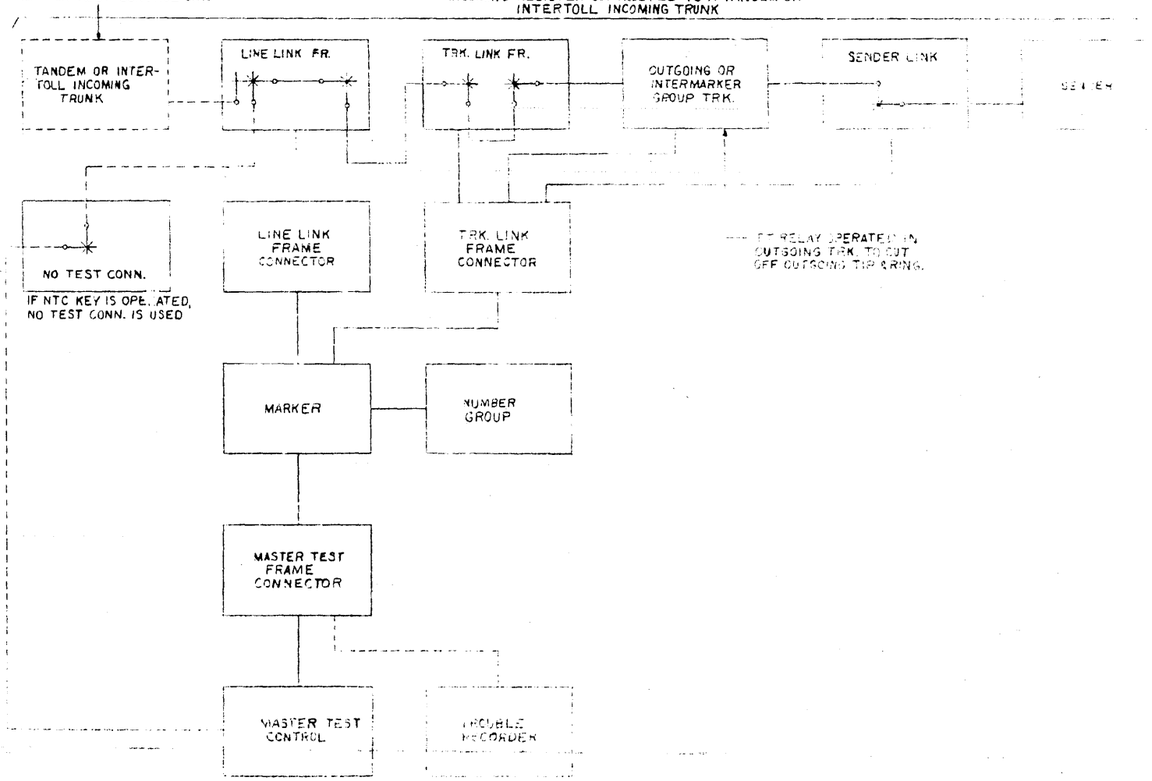
INC CLASS OF MARKER TEST SIMULATING SEIZURE BY AN INCOMING REGISTER CONNECTED TO AN INCOMING OR INTERMARKER GROUP TRUNK



FUNCTIONS OF TANDEM OR INTERTOLL INCOMING TRUNK AND OPERATION OF LINE HOLD MAGNET ARE SIMULATED IN MASTER TEST CONTROL CKT.

FIG. 209

INC CLASS OF MARKER TEST SIMULATING SEIZURE BY AN INCOMING REGISTER CONNECTED TO A TANDEM OR INTERTOLL INCOMING TRUNK



DRAWING ISSUE 51D

51

CROSSBAR SYSTEMS NO. 5 MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-D48
BELL TELEPHONE LABORATORIES INCORPORATED	SHEET SIZE 6S

SD-25800-01-D48

FIG. 210

OR CLASS OF TEST SETTING UP CONNECTION TO ORIGINATING REGISTER

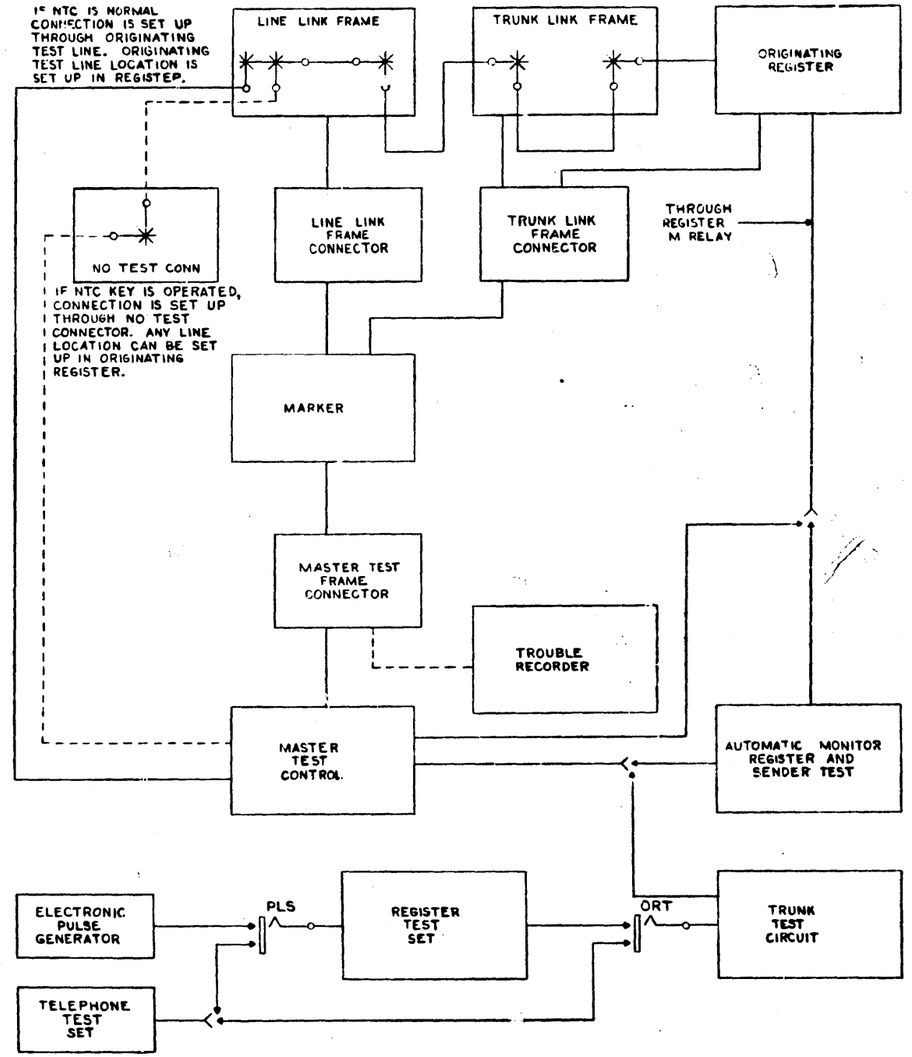
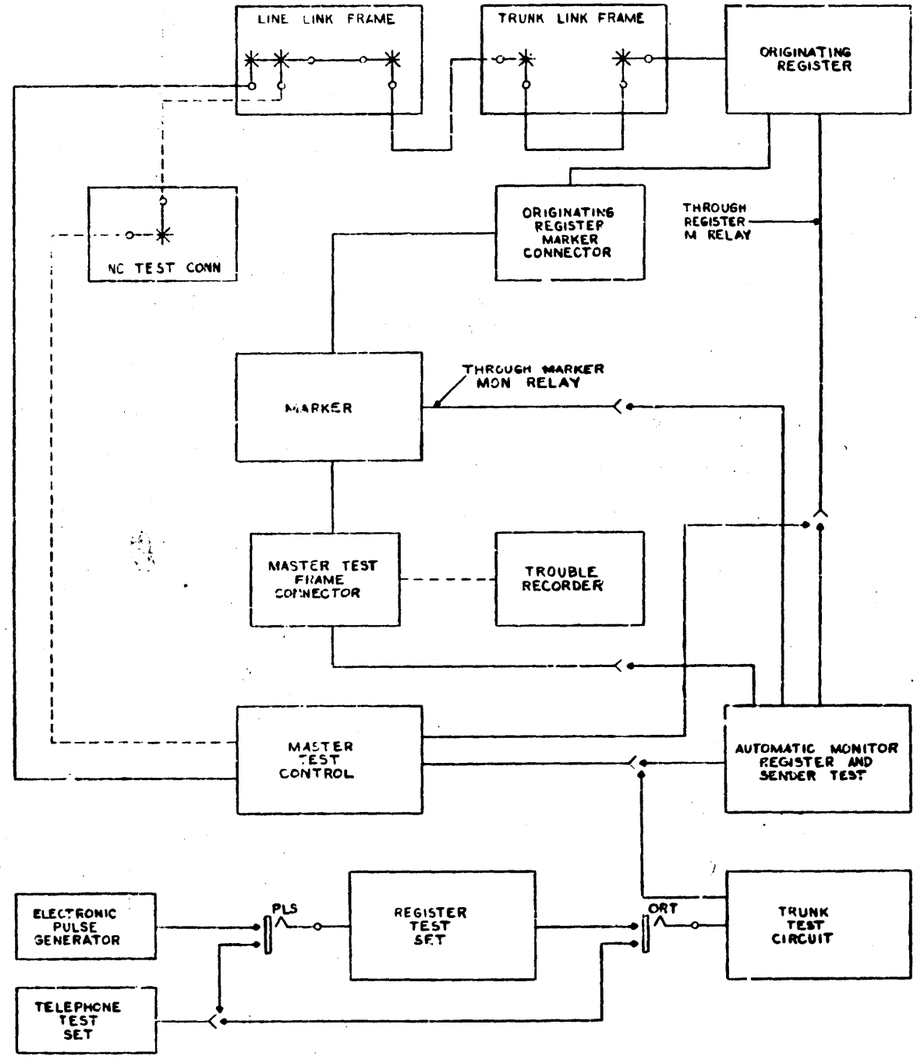


FIG. 211

OR CLASS OF TEST RESEIZURE OF MARKER BY ORIGINATING REGISTER AND CONNECTION OF MARKER TO MONITOR

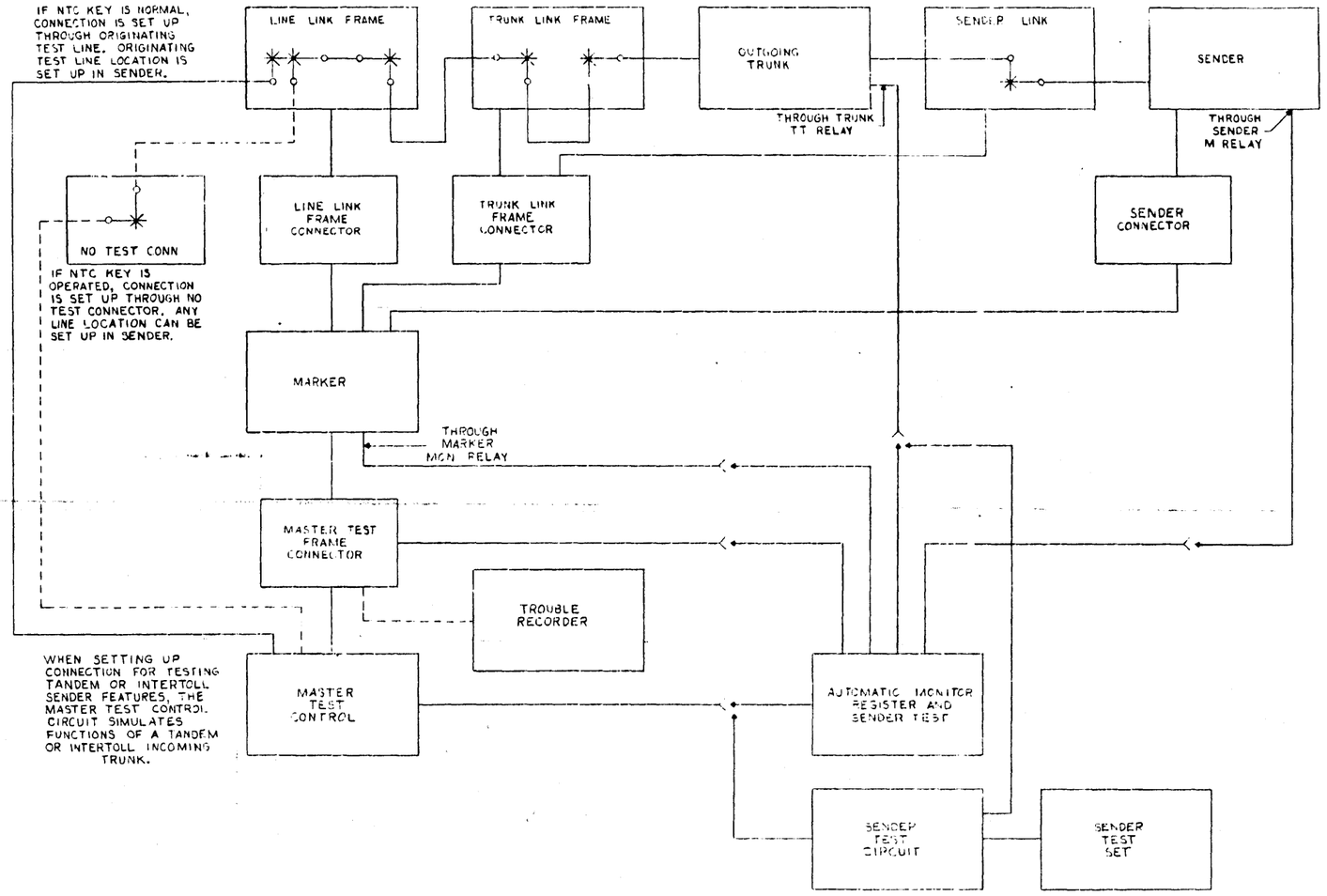


CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D49
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D49

FIG. 212

SENDER CLASS OF TEST SETTING
CONNECTION TO A SENDER



DRAWING ISSUE
51D

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D50
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D50

DRAWING ISSUE
51 DS CB

FIG. 213

SDR CLASS OF TEST - (AMA ROUTE) SENDER SEIZURE OF TRANSVERTER AND CONNECTION OF TRANSVERTER TO MASTER TEST CONTROL CIRCUIT

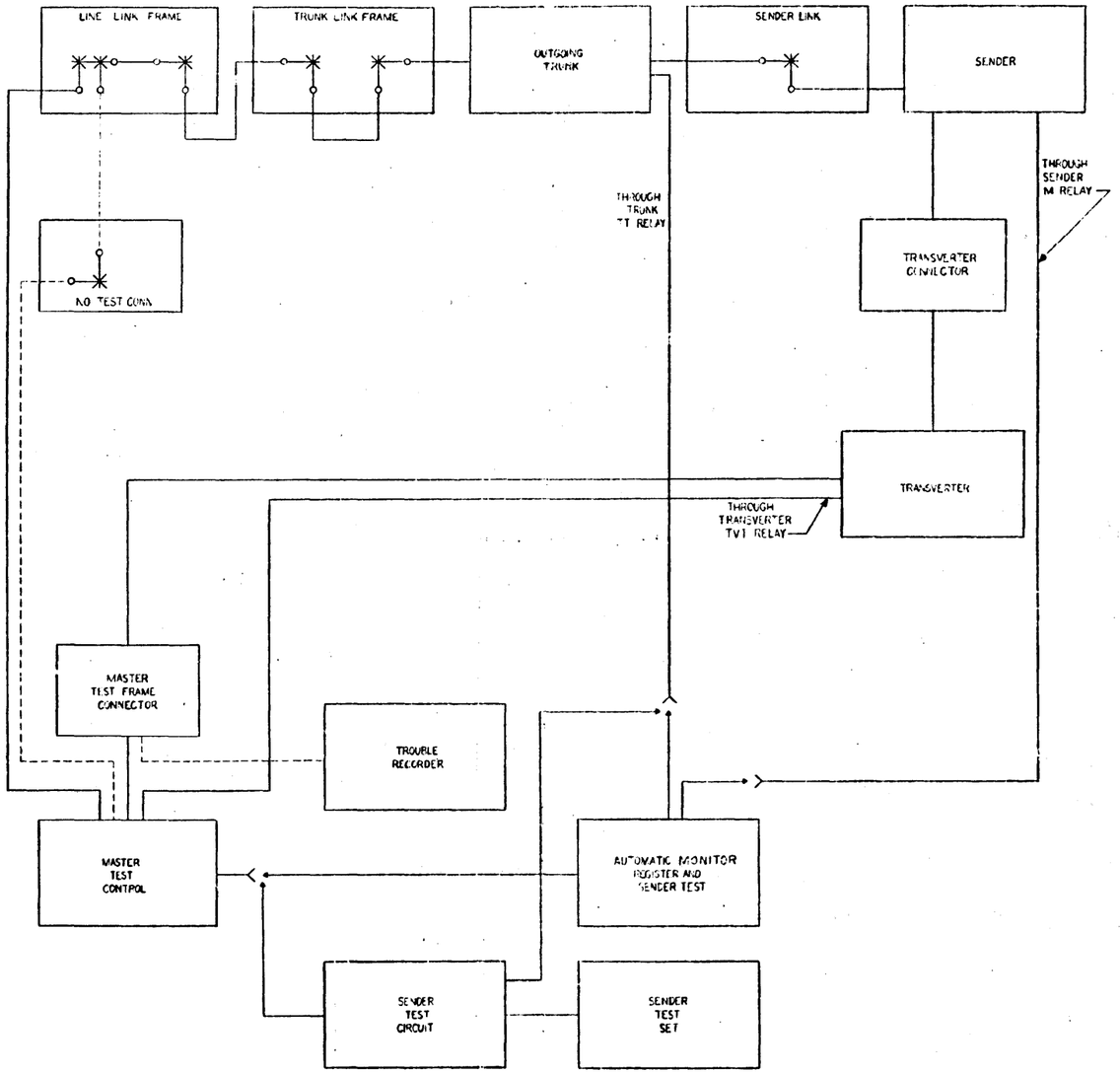
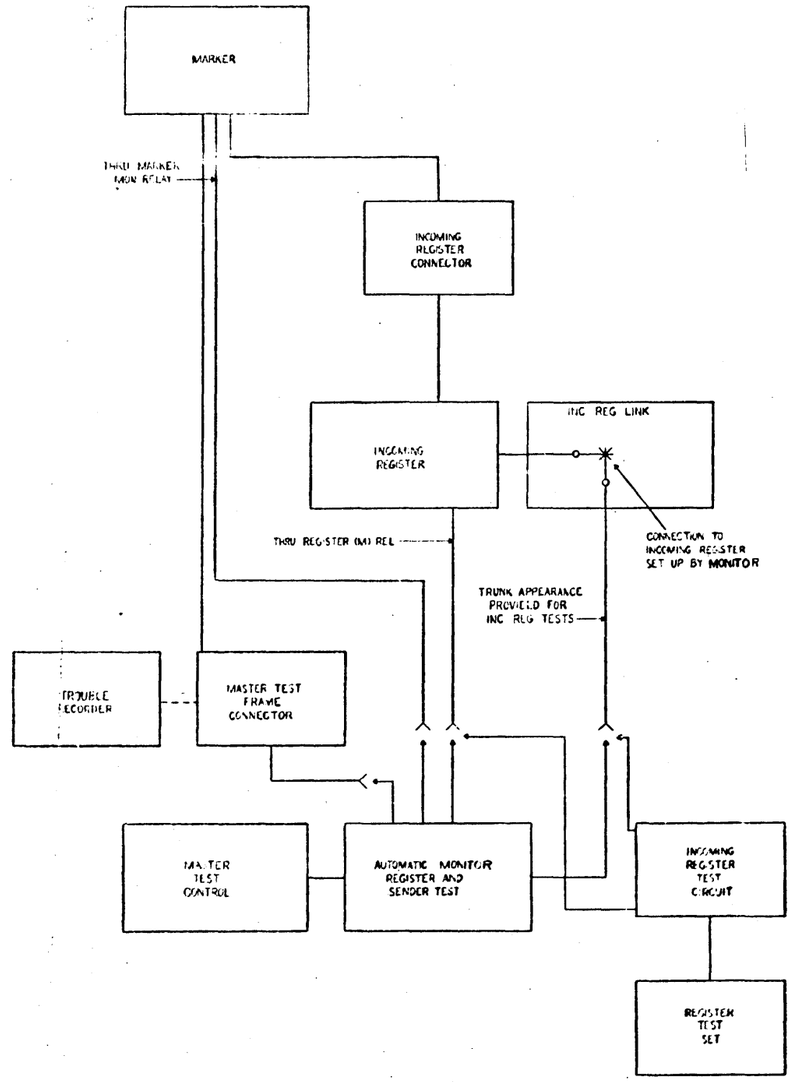


FIG. 214

IR CLASS OF TEST
CONNECTION OF MONITOR TO INCOMING REGISTER SEIZURE OF MARKER BY INCOMING REGISTER AND CONNECTION OF MARKER TO MONITOR



51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D 51

BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D 51

DRAWING ISSUE

51D

FIG. 215

CONNECTION OF MONITOR TO TROUBLE RECORDER IN EVENT OF TEST FAILURE

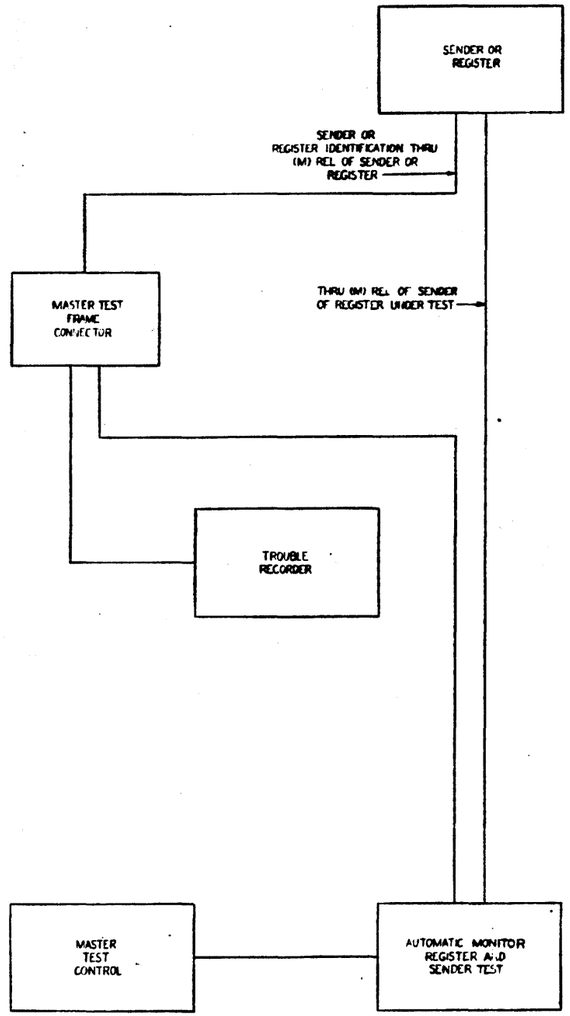
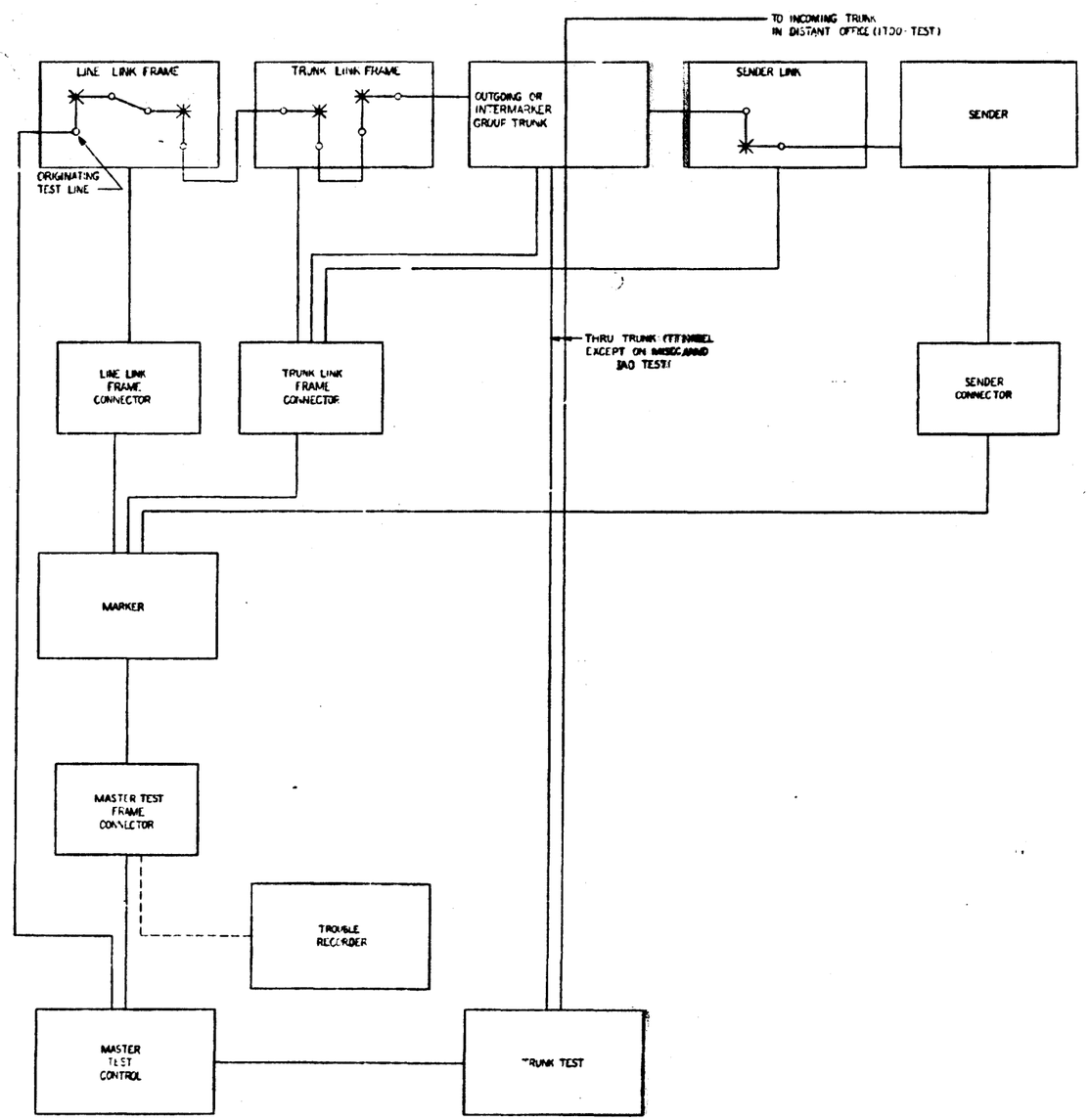


FIG. 216

OGT, MISC., ITDO, OR IAO CLASSES OF TRUNK TESTS SETTING UP CONNECTION TO AN OUTGOING OR INTERMARKER GROUP TRUNK REQUIRING A SENDER



WITH FWD, TAN & TOL BUTTONS NORMAL ON (IC) KEY, TEST CIRCUIT SIMULATES AN ORIGINATING REGISTER WITH AN FWD, TAN OR TOL BUTTON OPERATED ON (IC) KEY, TEST CIRCUIT SIMULATES AN INCOMING REGISTER CONNECTED TO A TANDEM OR INTERTOLL INCOMING TRUNK.

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CROSSBAR SYSTEMS

NO. 5
MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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SD-25800-01-D52

SD-25800-01-D52

DRAWING ISSUE
51D DS

FIG. 217

OGT. MISC., ITDO, OR IAO CLASSES OF TRUNK TESTS (AMA ROUTE) INITAL ENTRY ON AMA RECORDER AND STORING TRUNK NUMBER IN TRUNK TEST CIRCUIT

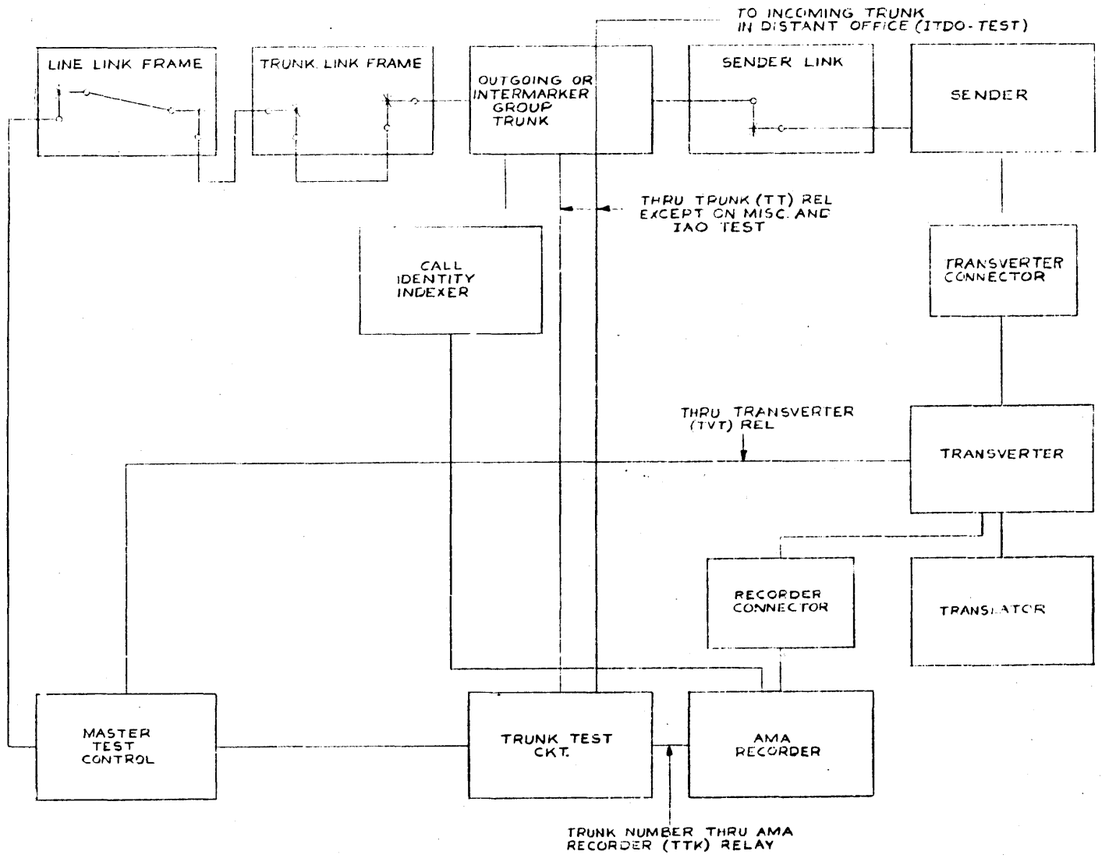
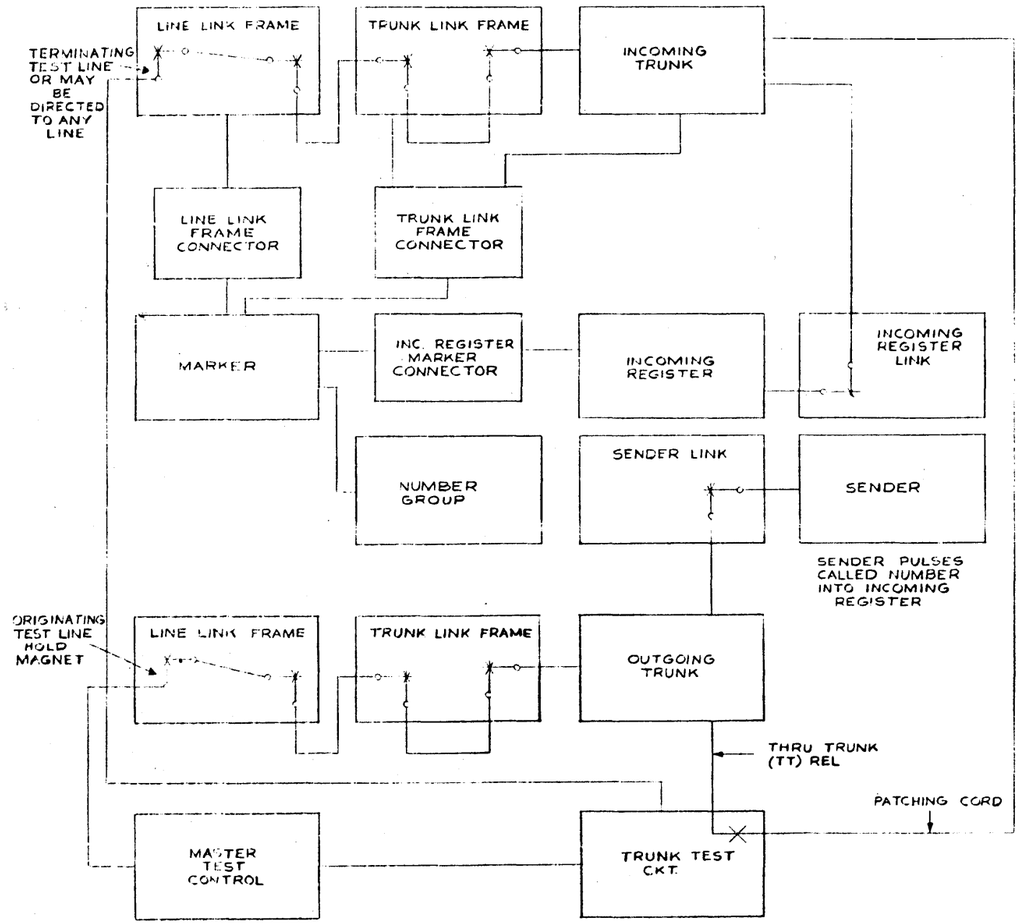


FIG. 218

ITP CLASS OF TRUNK TEST SETTING UP CONNECTION TO TERMINATING LINE

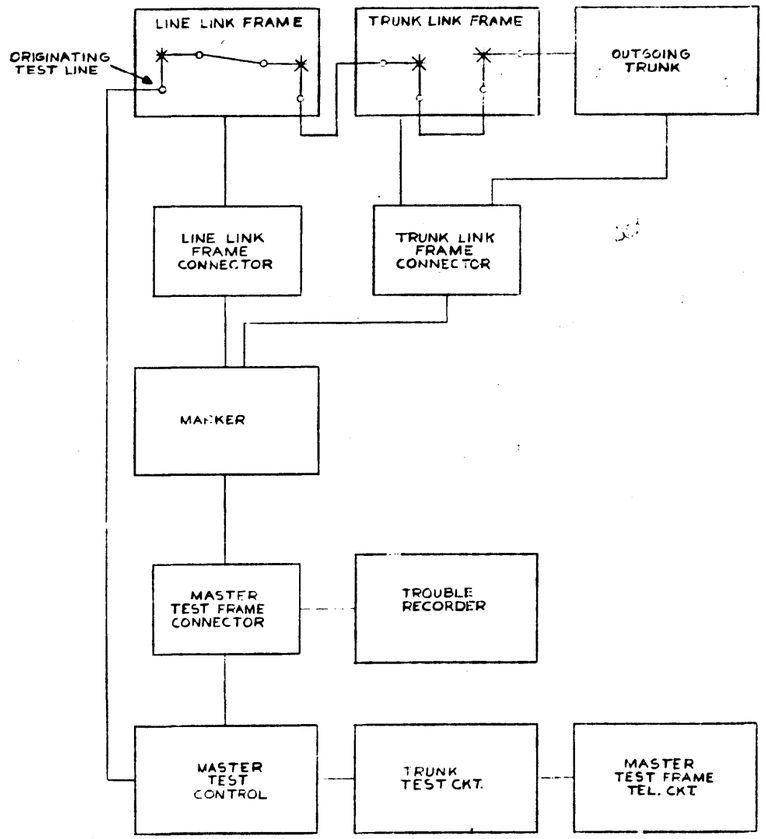


CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT
SD-25800-01-D 53
BELL TELEPHONE LABORATORIES INCORPORATED
2 SHEETS 6S

SD-25800-01-D53

FIG. 219

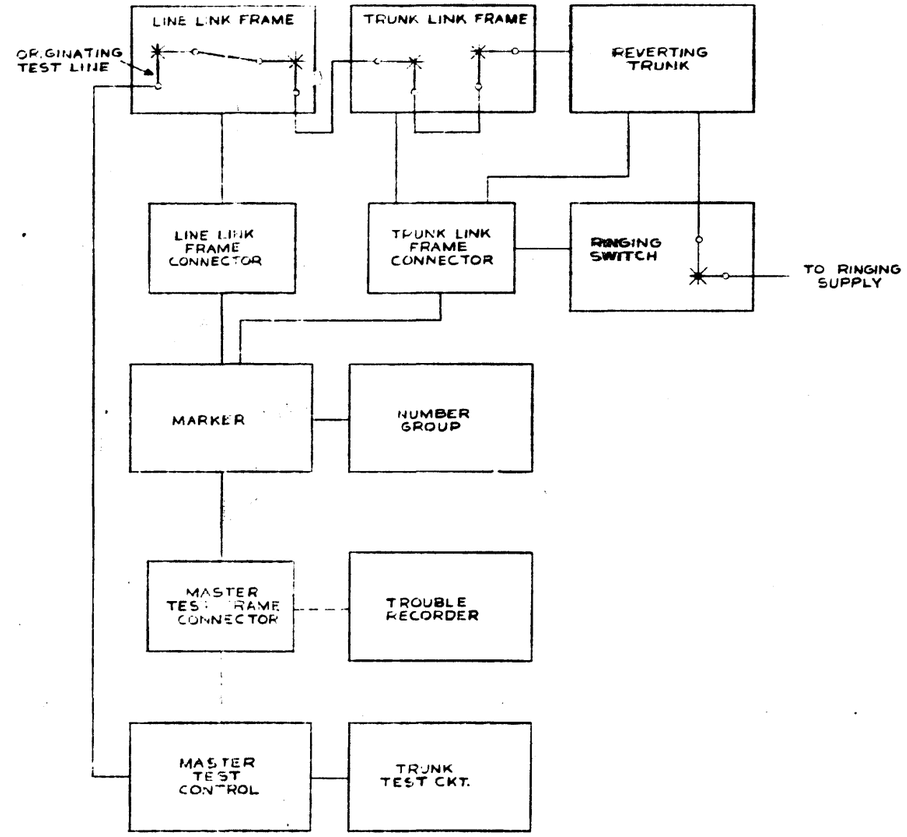
MISC. CLASS OF TRUNK TEST
SETTING UP CONNECTION TO OUTGOING TRUNK
NOT REQUIRING A SENDER



WITH FVD TAN & TOL BUTTONS NORMAL ON (IC) KEY TEST CIRCUIT SIMULATES AN ORIGINATING REGISTER. WITH AN FVD TAN OR TOL BUTTON OPERATED ON (IC) KEY TEST CIRCUIT SIMULATES AN INCOMING REGISTER CONNECTED TO A TANDEM OR INTERTOLL INCOMING TRUNK

FIG. 220

VISC. CLASS OF TRUNK TEST
SETTING UP CONNECTION TO REVERTING TRUNK



CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D54
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D54

FIG. 221

MISC. OR IAO CLASS OF TRUNK TEST
SETTING UP CONNECTION TO INTRAOFFICE TRUNK
TERMINATING STAGE

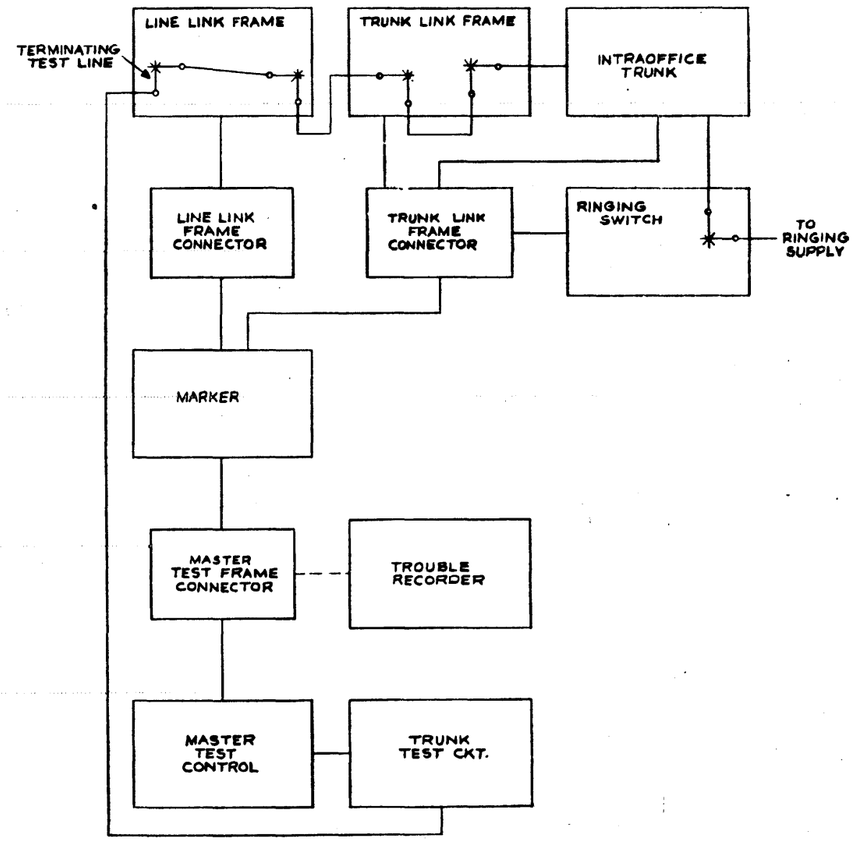
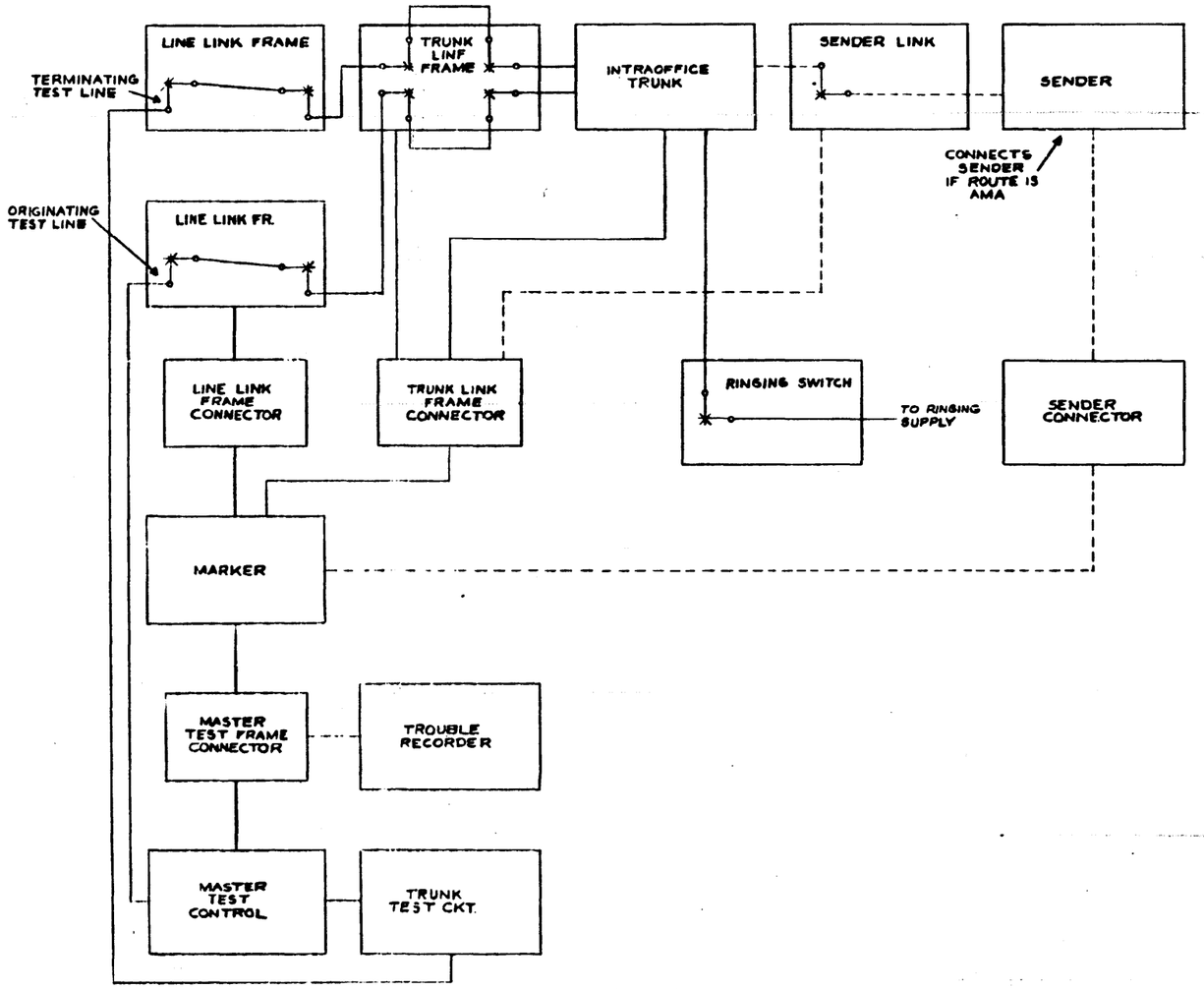


FIG. 222

MISC. OR IAO CLASS OF TRUNK TEST
SETTING UP CONNECTION TO INTRAOFFICE TRUNK
ORIGINATING STAGE



CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25600-01-D56

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25600-01-D56

SD-25800-01-D56

FIG. 223

IAO OR MISC CLASS OF TRUNK TEST (AMA)
ROUTE INITIAL ENTRY ON AMA RECORDER AND
STORING TRUNK NUMBER IN TRUNK TEST
CIRCUIT

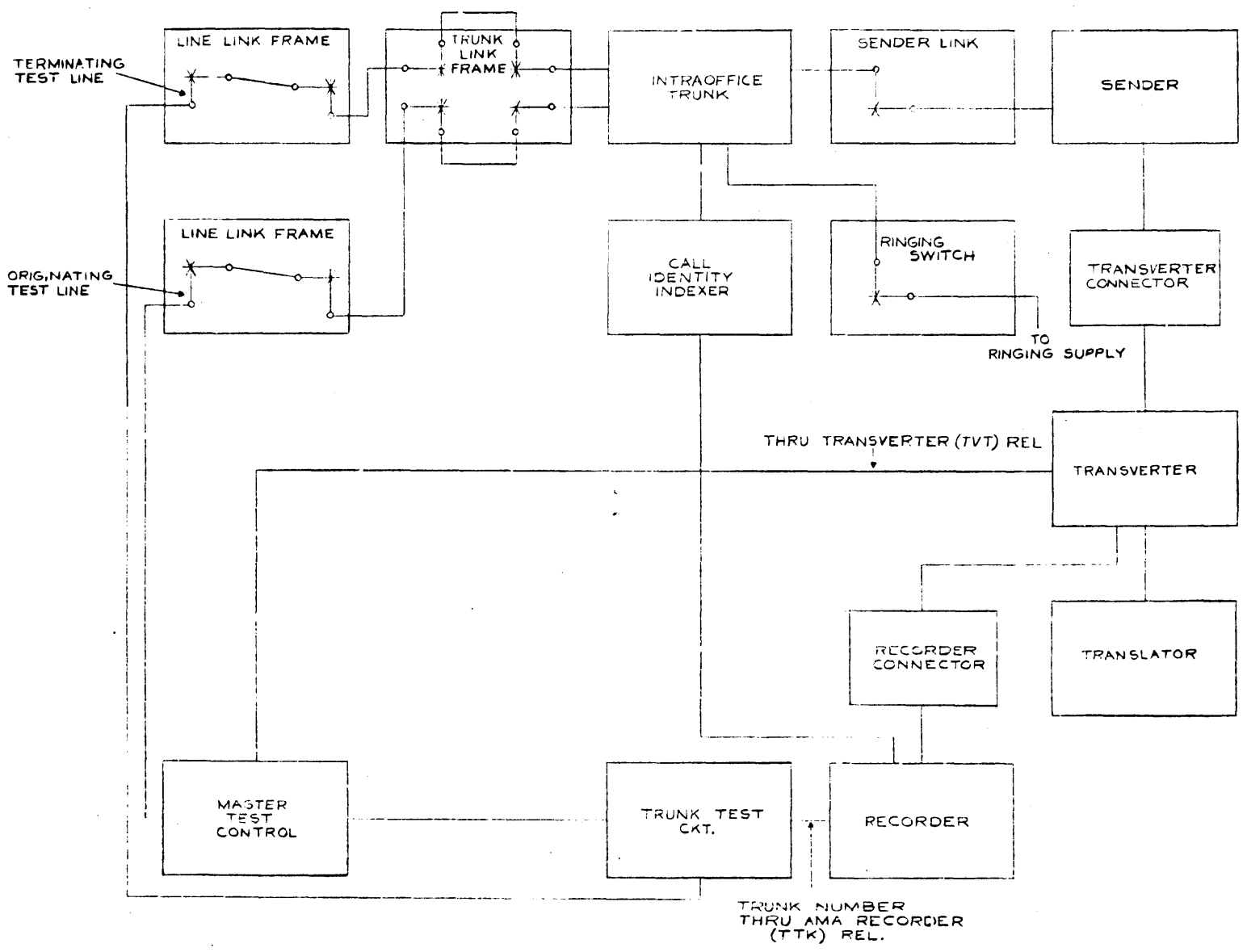
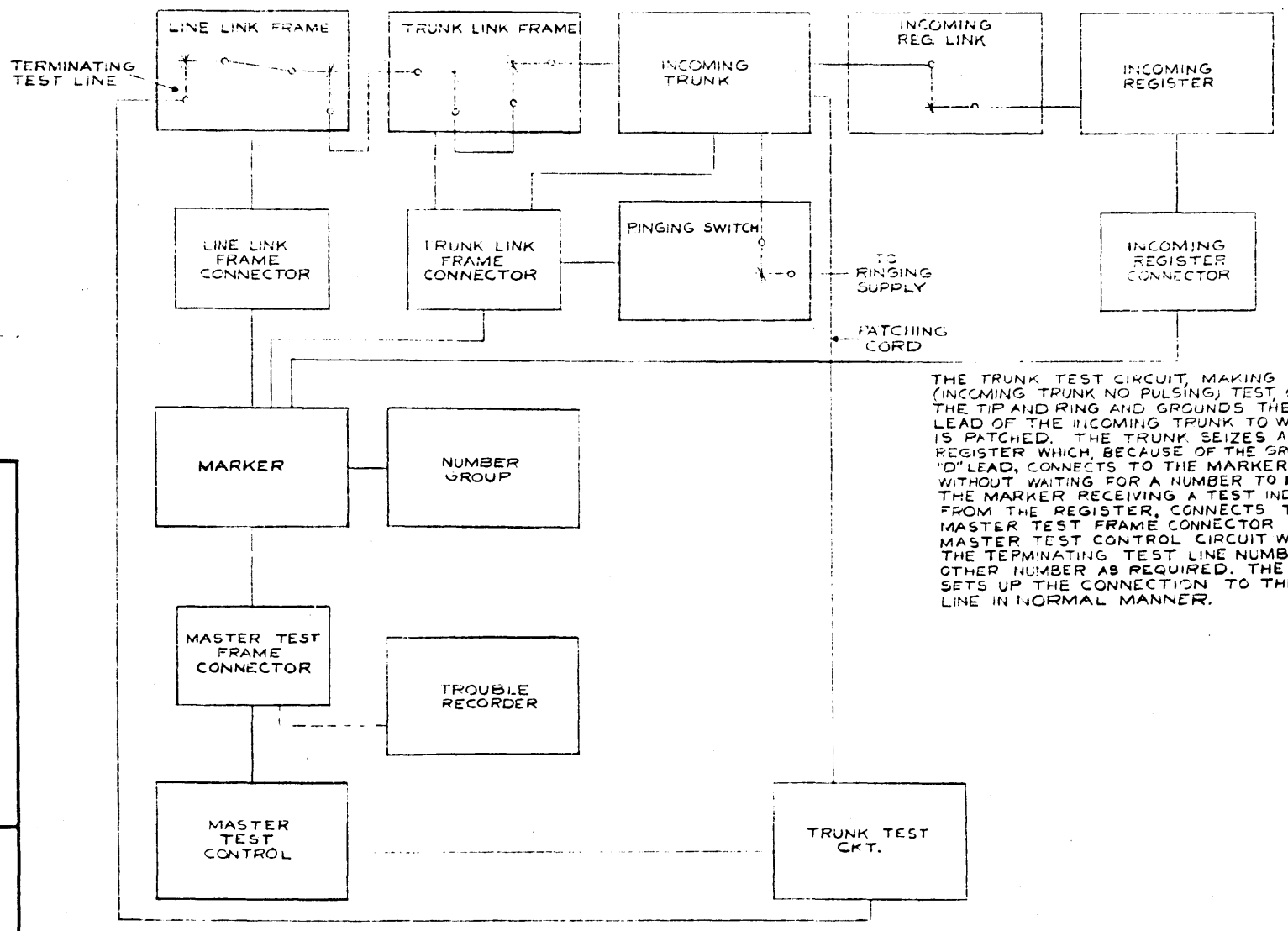


FIG. 224

ITNP CLASS OF TRUNK TEST
SETTING UP CONNECTION FROM
INCOMING TRUNK TO CALLED LINE

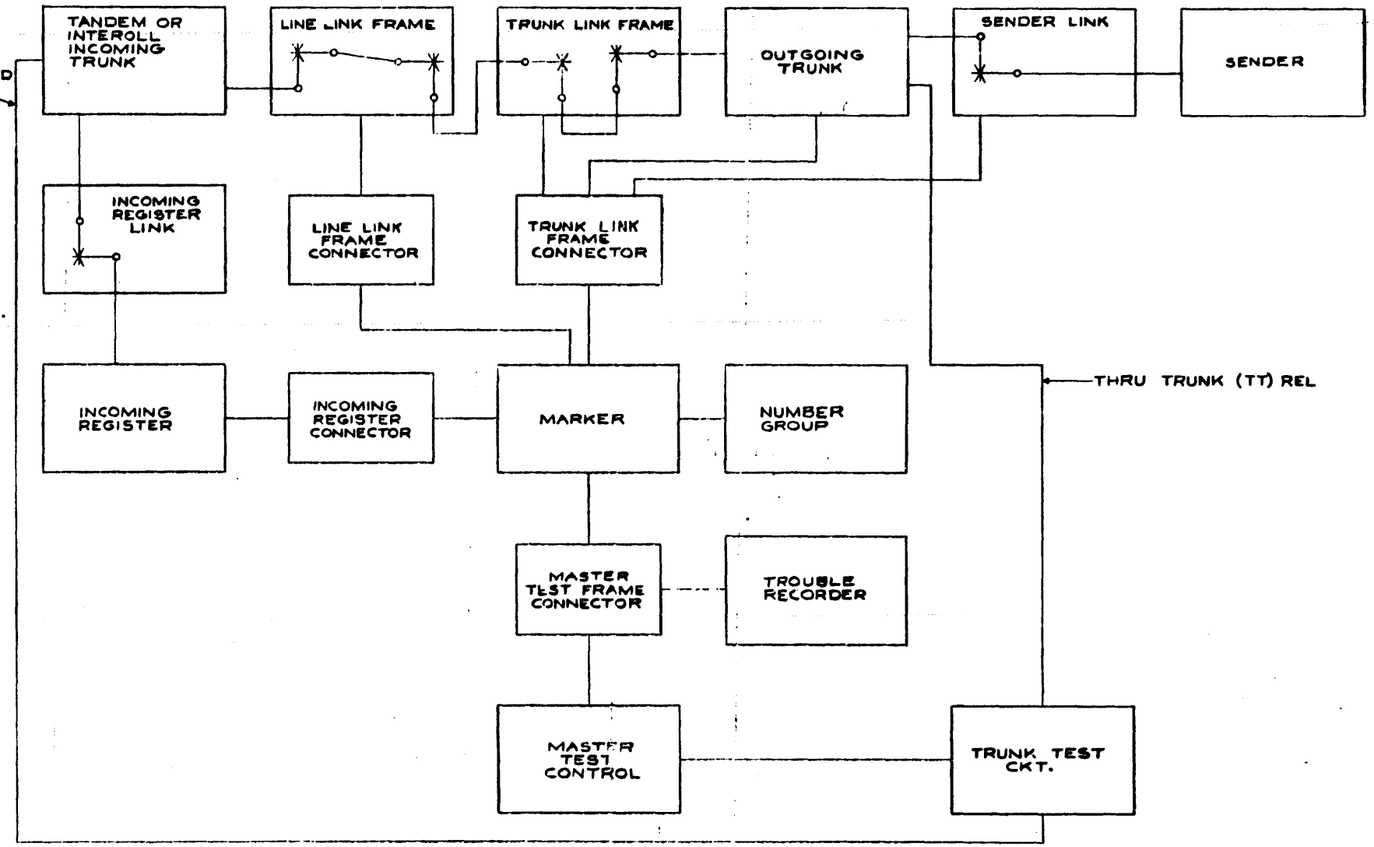


THE TRUNK TEST CIRCUIT, MAKING AN ITNP (INCOMING TRUNK NO PULSING) TEST, CLOSES THE TIP AND RING AND GROUNDS THE "D" LEAD OF THE INCOMING TRUNK TO WHICH IT IS PATCHED. THE TRUNK SEIZES AN INCOMING REGISTER WHICH, BECAUSE OF THE GROUNDED "D" LEAD, CONNECTS TO THE MARKER IMMEDIATELY WITHOUT WAITING FOR A NUMBER TO BE PULSED. THE MARKER RECEIVING A TEST INDICATION FROM THE REGISTER, CONNECTS THRU THE MASTER TEST FRAME CONNECTOR TO THE MASTER TEST CONTROL CIRCUIT WHICH SUPPLIES THE TERMINATING TEST LINE NUMBER, OR OTHER NUMBER AS REQUIRED. THE MARKER SETS UP THE CONNECTION TO THE CALLED LINE IN NORMAL MANNER.

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
6S
2
SD-25800-01-D56
51
DRAWING ISSUE
51 DS

FIG. 225

ITNP CLASS OF TRUNK TEST
SETTING UP CONNECTION FROM TANDEM OR INTERTOLL INCOMING TRUNK TO AN OUTGOING TRUNK



THE TRUNK TEST CIRCUIT MAKING AN ITNP (INCOMING TRUNK NO PULSING) TEST CLOSES THE TIP AND RING AND GROUNDS THE "D" LEAD OF THE TANDEM OR INTERTOLL INCOMING TRUNK TO WHICH IT IS PATCHED. THE TRUNK SEIZES AN INCOMING REGISTER WHICH BECAUSE OF THE GROUNDED "D" LEAD, CONNECTS TO A MARKER IMMEDIATELY WITHOUT WAITING FOR A NUMBER TO BE PULSED. THE MARKER RECEIVING A TEST INDICATION FROM THE REGISTER CONNECTS THRU THE MASTER TEST FRAME CONNECTOR TO THE MASTER TEST CONTROL CKT. WHICH SUPPLIES THE CODE OF AN OUTGOING ROUTE. THE MARKER SETS UP THE CONNECTION FROM THE LINE LINK APPEARANCE OF THE TANDEM INCOMING TRUNK TO AN OUTGOING TRUNK IN THE NORMAL MANNER.

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CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-057
BELL TELEPHONE LABORATORIES INCORPORATED
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FIG. 226

MLV CLASS OF TEST (FIRST STAGE)
VERIFICATION OF LINE CROSS CONNECTIONS IN NUMBER GROUP AND CLASS OF SERVICE CROSS CONNECTIONS IN LINE LINK FRAME

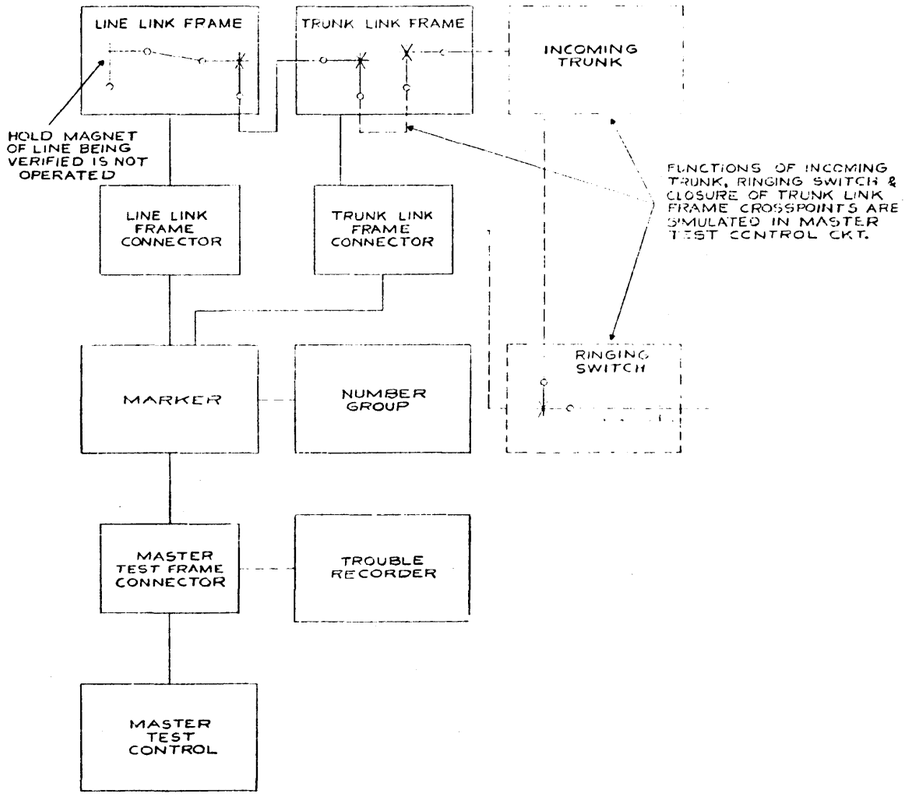
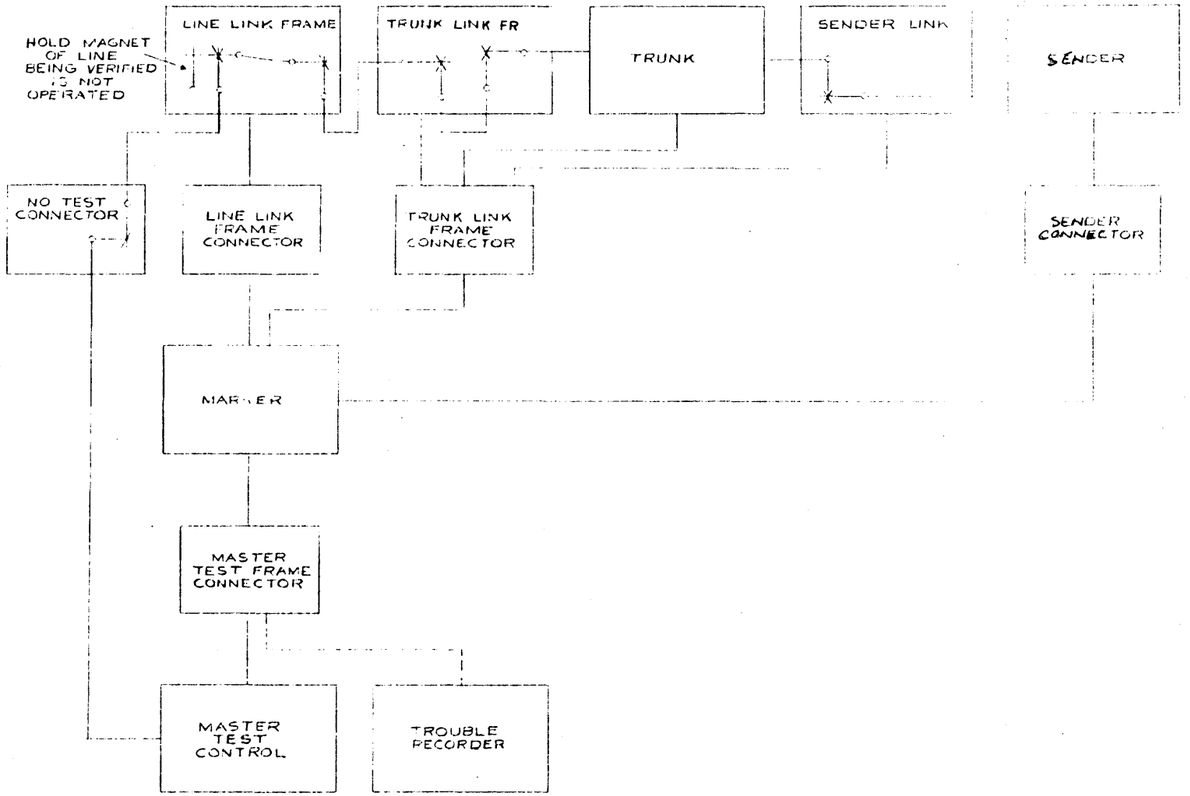


FIG. 227

MLV CLASS OF TEST (SECOND STAGE)
SETTING UP CONNECTION TO A SENDER TO BE USED TO PRIME A TRANSVERTER FOR SUBSEQUENT VERIFICATION OF LINE CROSS CONNECTIONS IN AMA TRANSLATOR



SD-25800-01-D58

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D58
BELL TELEPHONE LABORATORIES INCORPORATED
6S

FIG. 228

'1LV CLASS OF TEST (THIRD STAGE) CONNECTION TO TRANSLATOR FOR VERIFICATION OF LINE CROSS CONNECTIONS

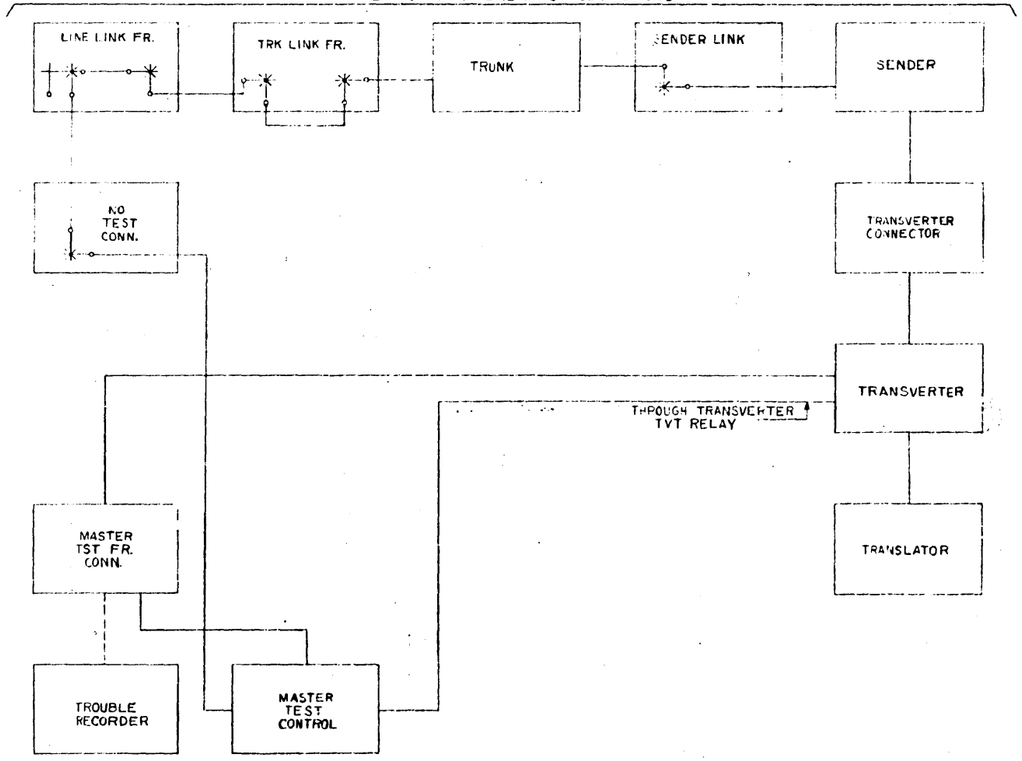
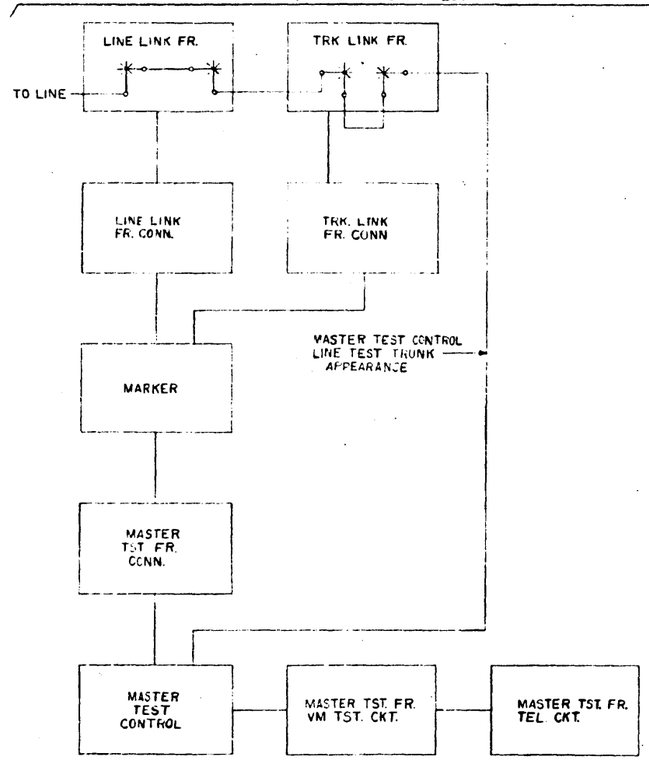


FIG. 229

LT CLASS OF TEST SETTING UP CONN TO A LINE, FOR VOLTMETER TEST



SD-25800-01-D59

51

CROSSBAR SYSTEMS

NO. 5
MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D59

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET SIZE 6S

FIG. 230

TVT CLASS OF TEST TRANSVERTER TEST SIMULATING AN AMA RECORDER

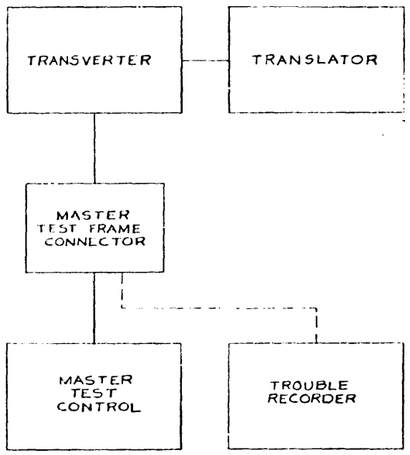


FIG 231

TVT CLASS OF TEST TRANSVERTER TEST USING AN AMA RECORDER

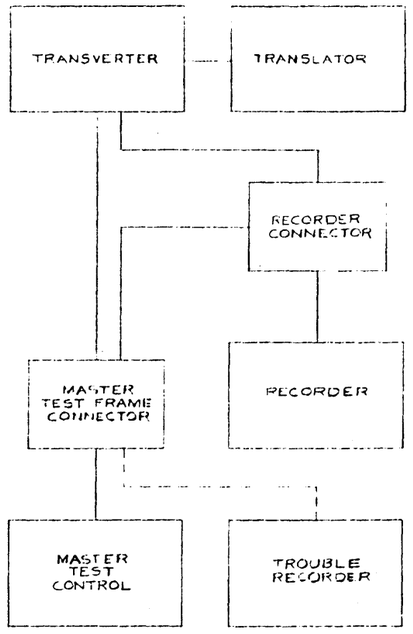
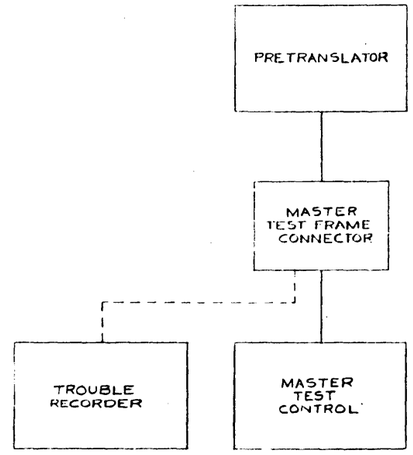


FIG. 232

PTT CLASS OF TEST PRETRANSLATOR TEST



DRAWING ISSUE 51 D RMD FPA FRI

51

CROSSBAR SYSTEMS

NO. 5
MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

DRG SIZE 6S

SD-25800-01-D60

SD-25800-01-D60

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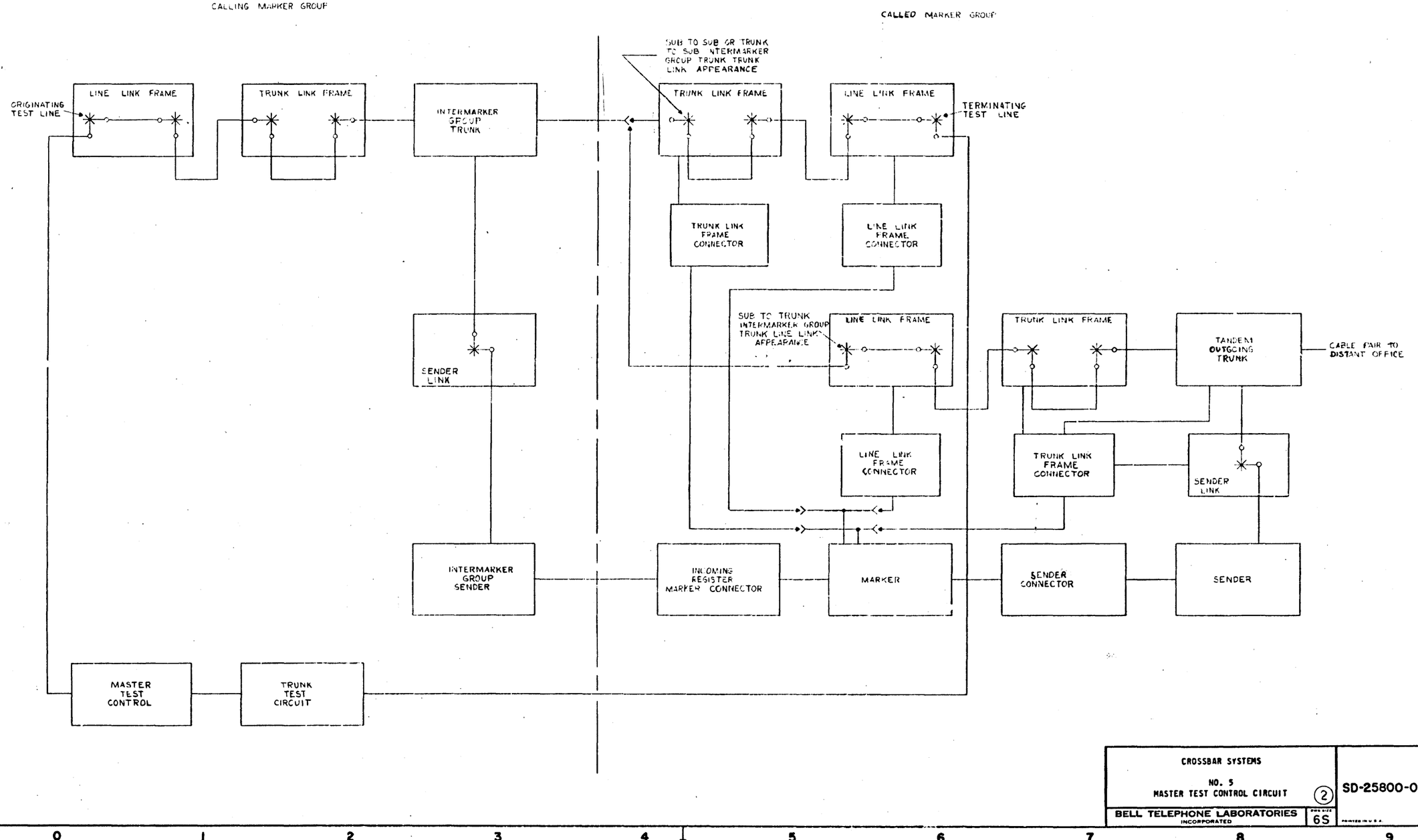
SID DS CML RMP

FIG. 233

1A0 CLASS OF TEST COMPLETION THRU SUB TO SUB ON TRUNK TO SUB INTERMARKER GROUP TRUNK TO TEST LINE IN CALLED MARKER GROUP. 1A1SC CLASS OF TEST COMPLETION THRU SUB TO TRUNK INTERMARKER GROUP TRUNK TO DISTANT OFFICE

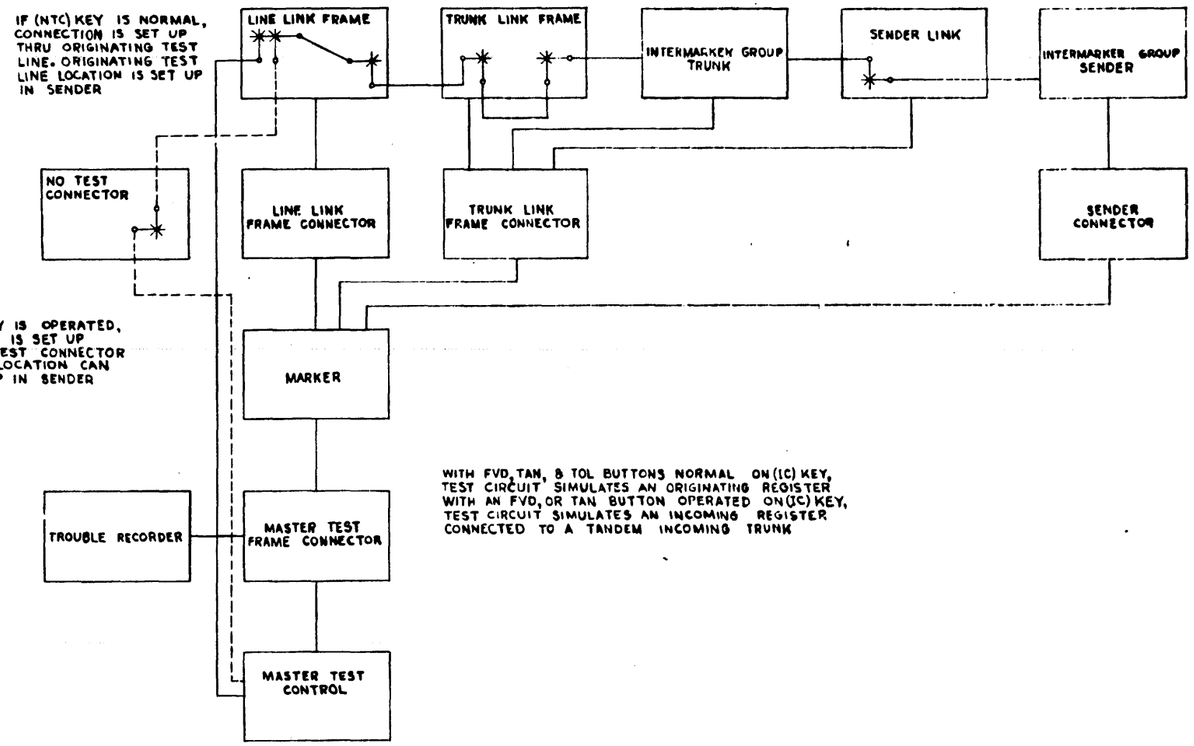


CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D61
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S

SD-25800-01-D61

FIG. 234

IMS CLASS OF TEST
SETTING UP CONNECTION TO
INTERMARKER GROUP SENDER FOR TEST



CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D62
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D62

FIG. 235

IM3 CLASS OF TEST (AMA ROUTE) INTERMARKER GROUP SENDER SEIZURE OF TRANSVERTER AND CONNECTION OF TRANSVERTER TO MASTER TEST CONTROL CIRCUIT

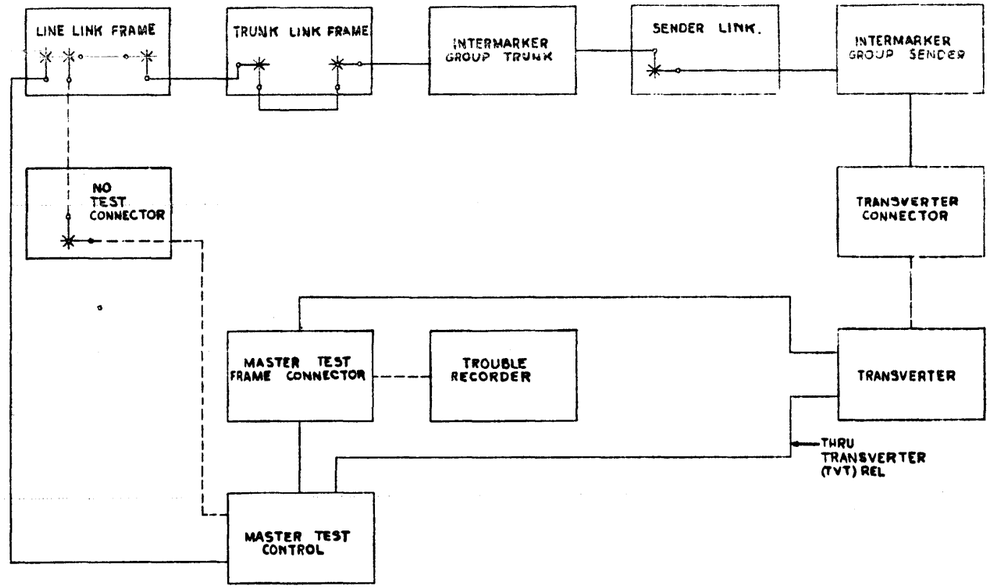
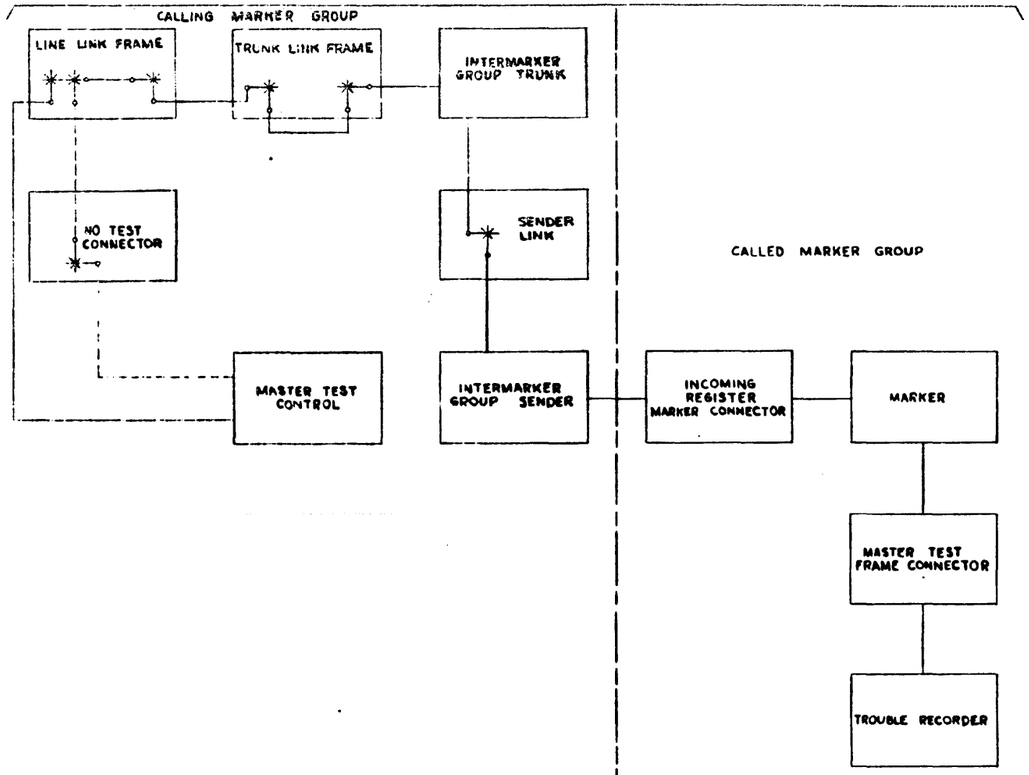


FIG. 236

IM3 CLASS OF TEST
SEIZURE OF CALLED MARKER AND CONNECTION TO TROUBLE RECORDER



DRAWING ISSUE
SID 03 FMV AMD

SD-25800-01-D63

51

CROSSBAR SYSTEMS NO. 5 MASTER TEST CONTROL CIRCUIT (2)		SD-25800-01-D63
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

FIG. 237

INC-PC CLASS OF TEST
SIMULATING SEIZURE OF MARKER BY AN INCOMING REGISTER CONNECTED TO A PULSE CONVERSION TRUNK

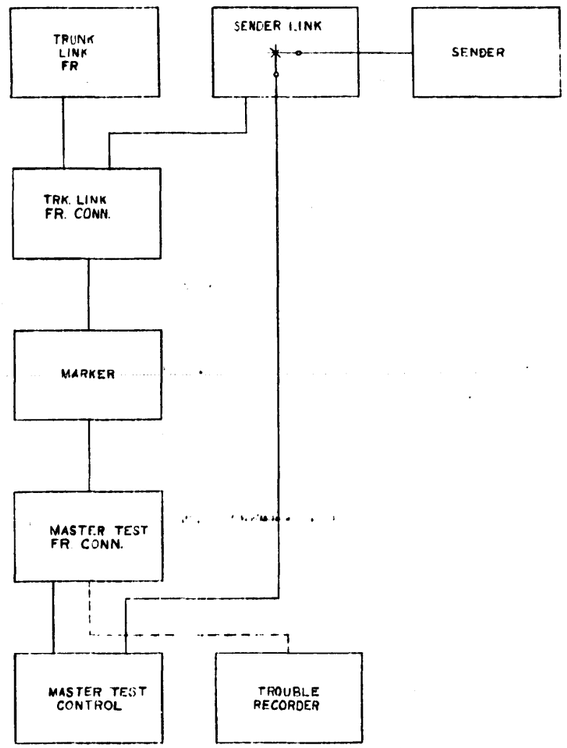
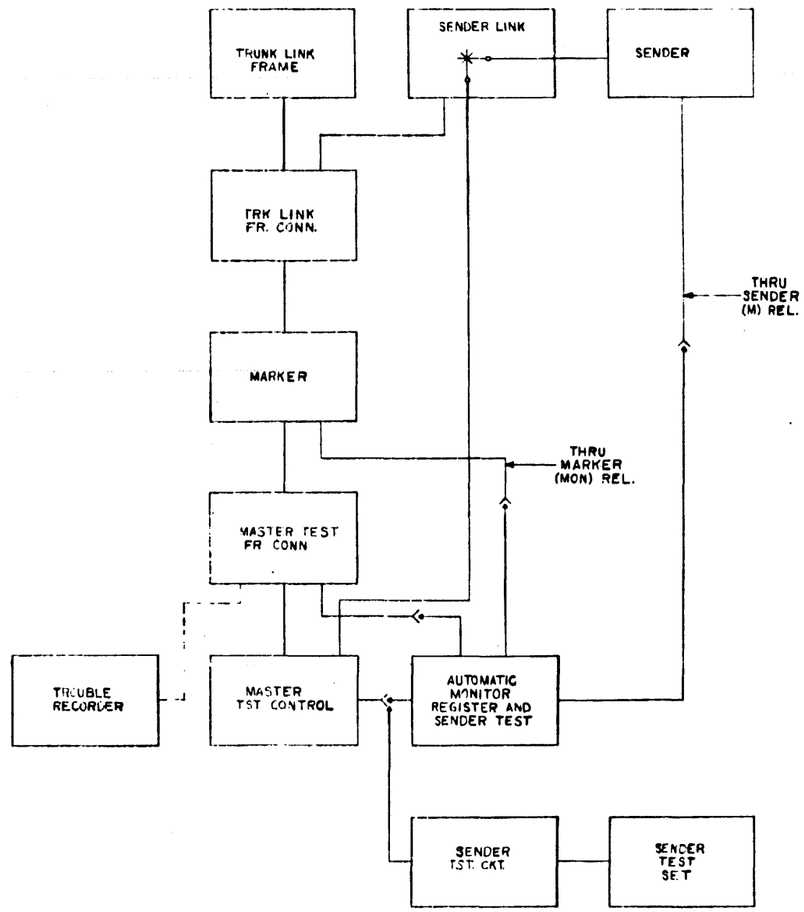


FIG. 238

SDR-PC CLASS OF TEST
SETTING UP CONNECTION TO SENDER FOR TEST OF PULSE CONVERSION FEATURES



DRAWING ISSUE 510 GAV

SD-25800-01-D64

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D64
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D65

FIG. 240

CAMA SENDER CLASS OF MARKER TEST
ORIGINATING REGISTER SIMULATED

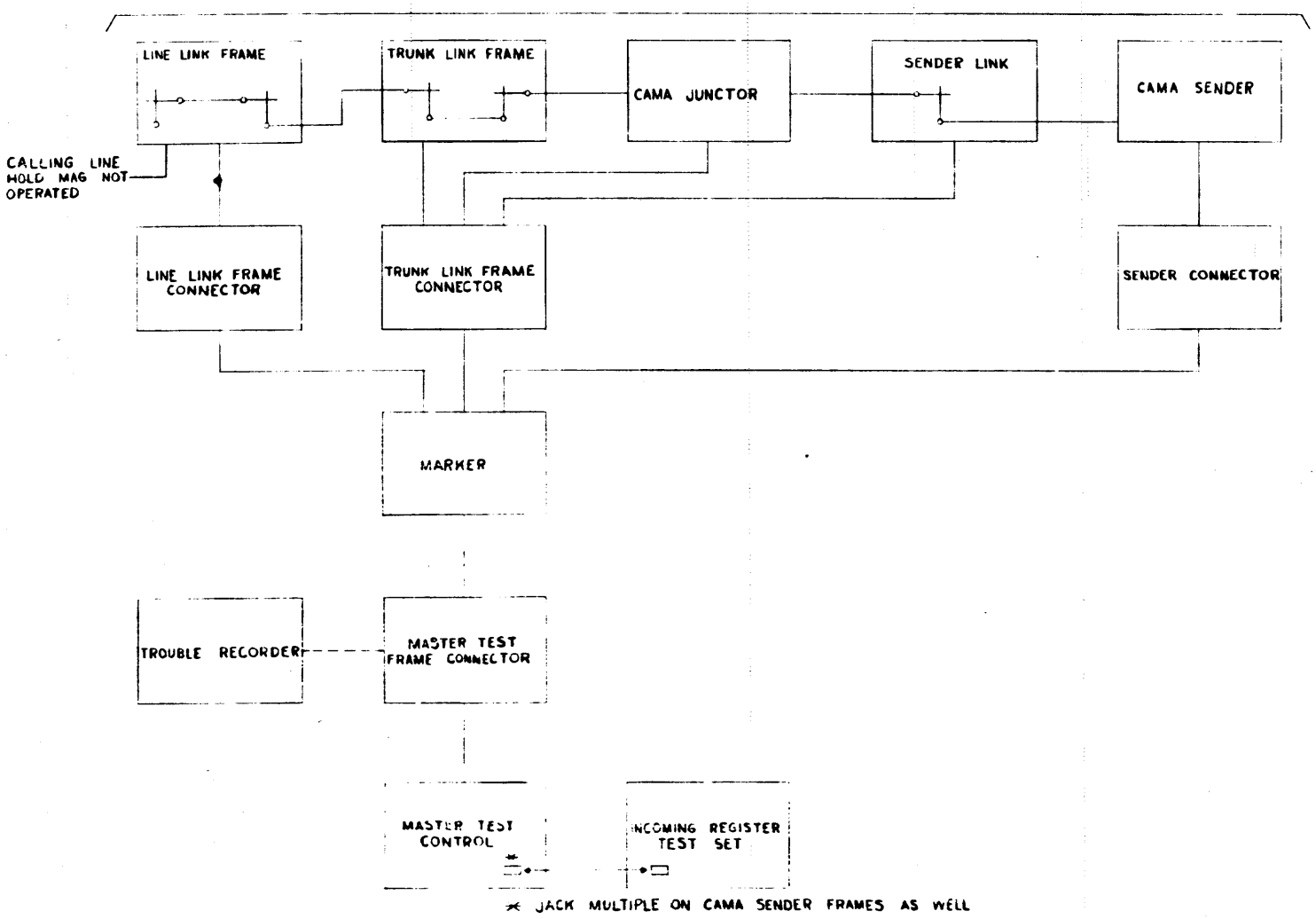
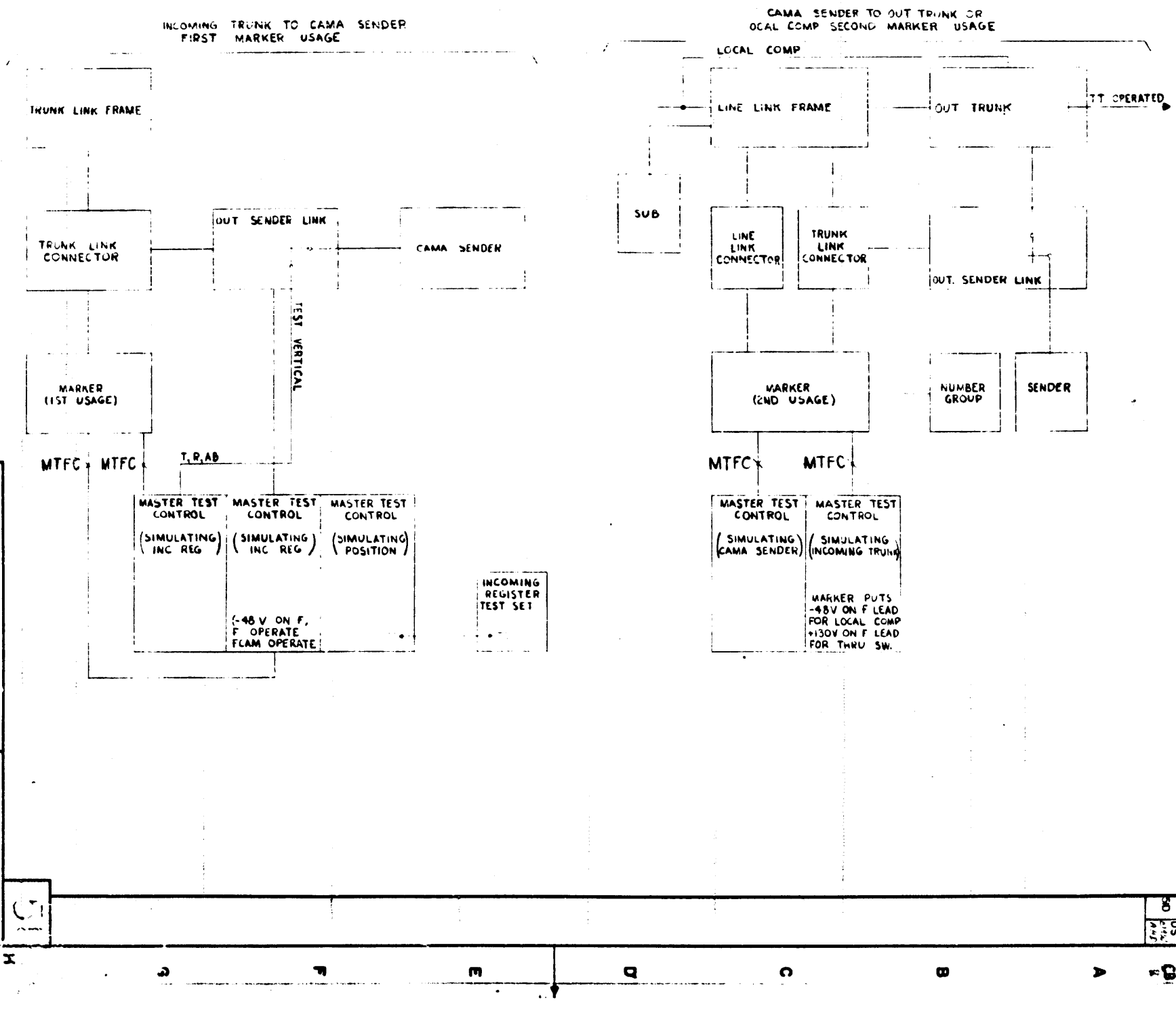


FIG. 241

MARKER TEST – INCOMING



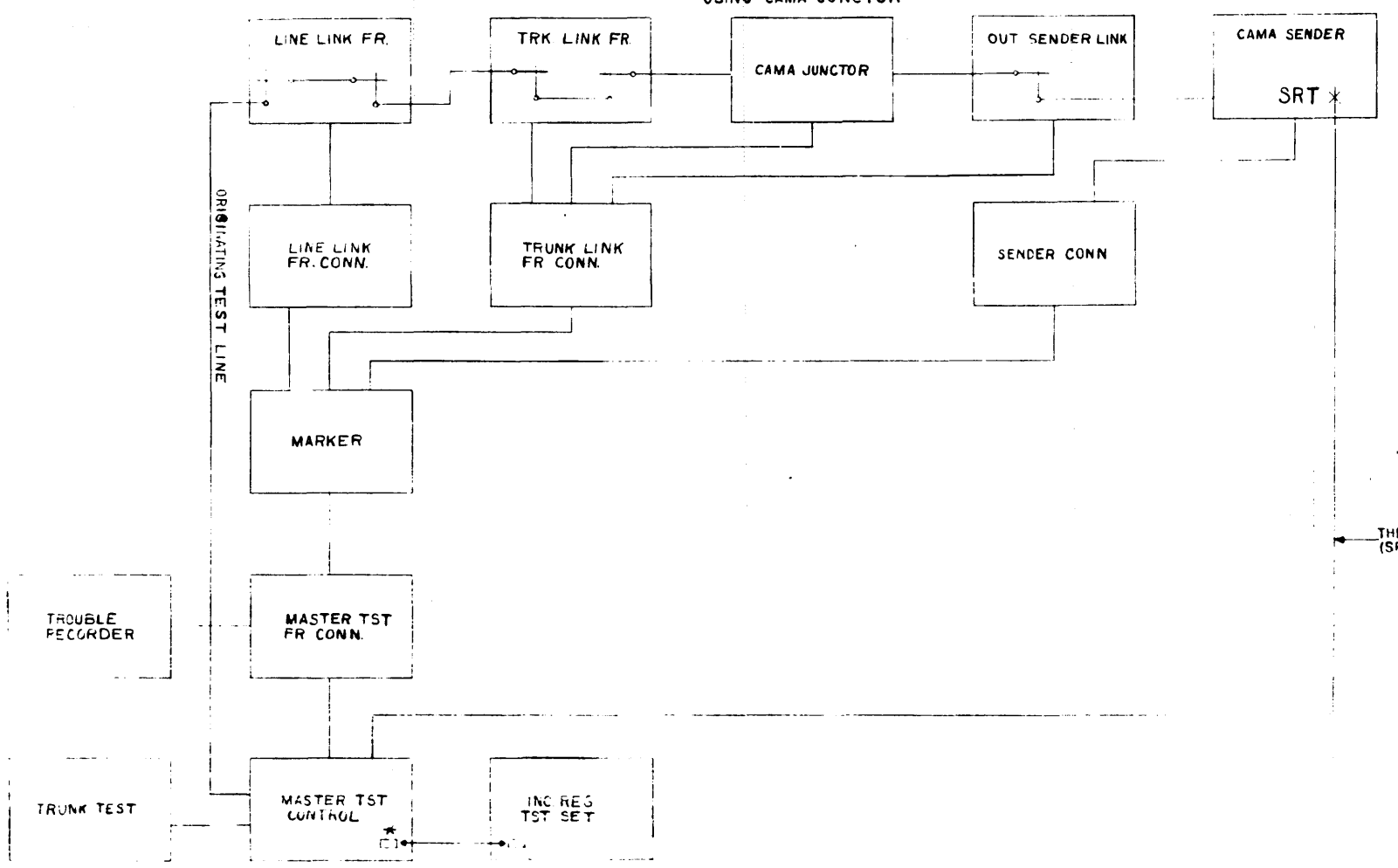
CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT
(2)
BELL TELEPHONE LABORATORIES INCORPORATED
65
SD-25800-01-D65

DRAWING ISSUE
DS
50

SD-25800-01-D66

FIG. 242

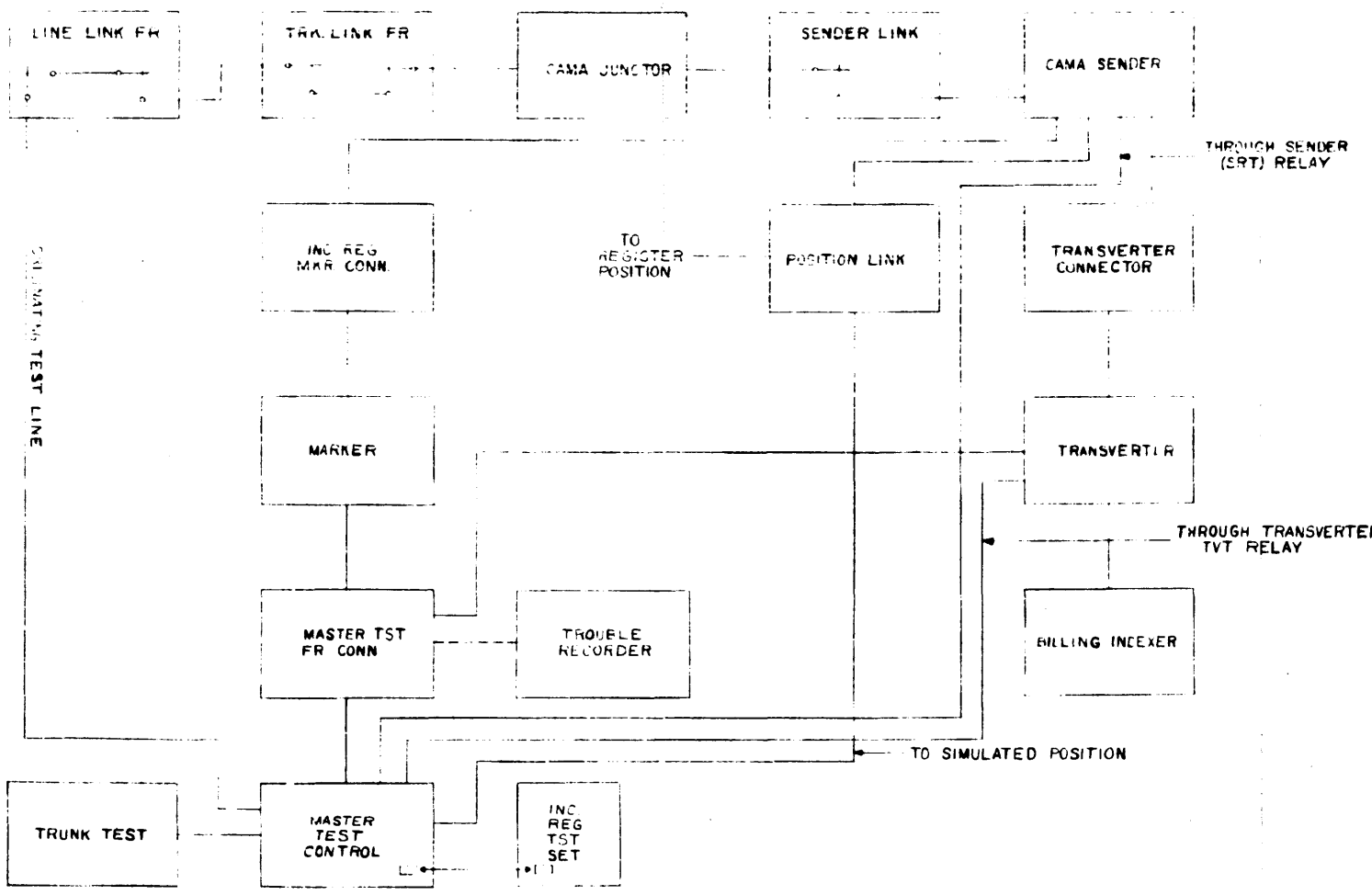
CAMA SENDER CLASS OF TEST
USING CAMA JUNCTOR



* JACK MULT ON CAMA SENLER FRAMES AS WELL

FIG. 243

CAMA SENDER CLASS OF TEST USING JUNCTOR
SHOWING CONN ESTABLISHED BETWEEN SENDER & POSITION
SHOWING CONN ESTABLISHED BETWEEN SENDER & TRANSVERTER
SHOWING CONN. ESTABLISHED BETWEEN SENDER & MKR.
SHOWING CONN. ESTABLISHED BETWEEN MKR & TROUBLE RECORDER



BELL TELEPHONE LABORATORIES INCORPORATED

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)

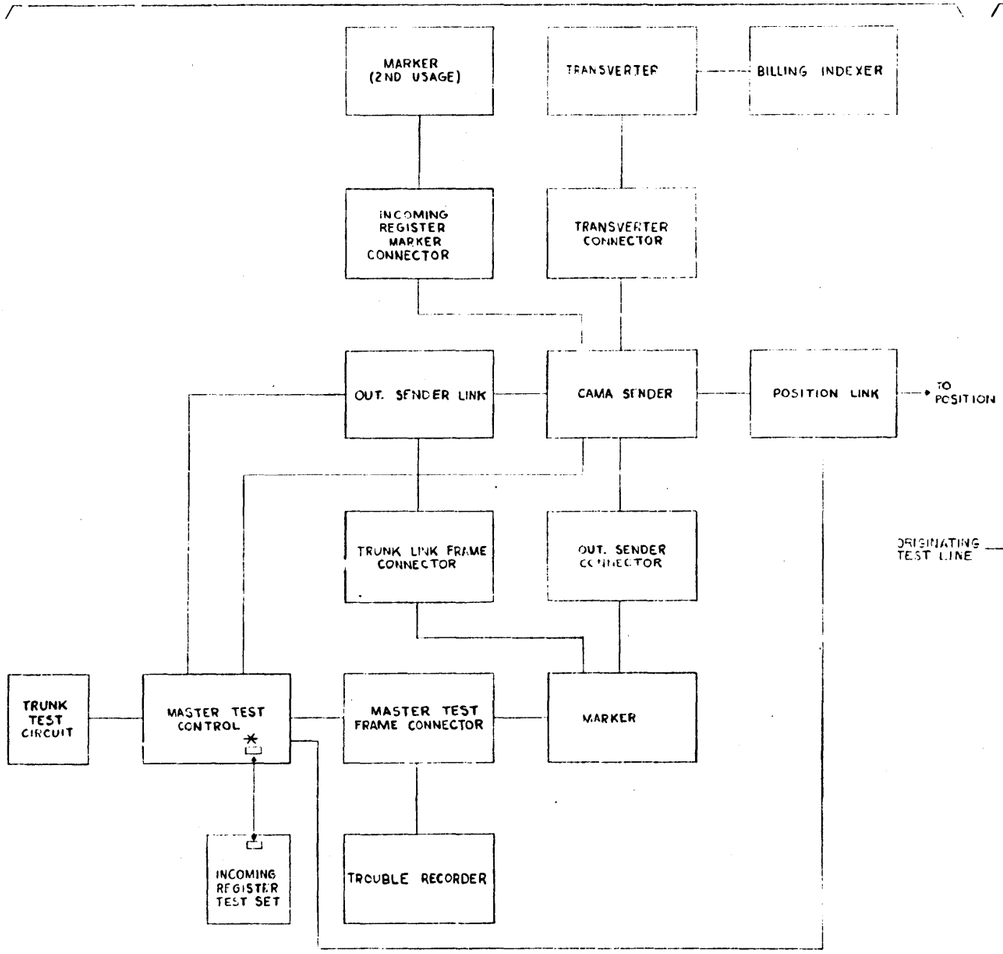
SD-25800-01-D66

5 1

DRAWING ISSUE

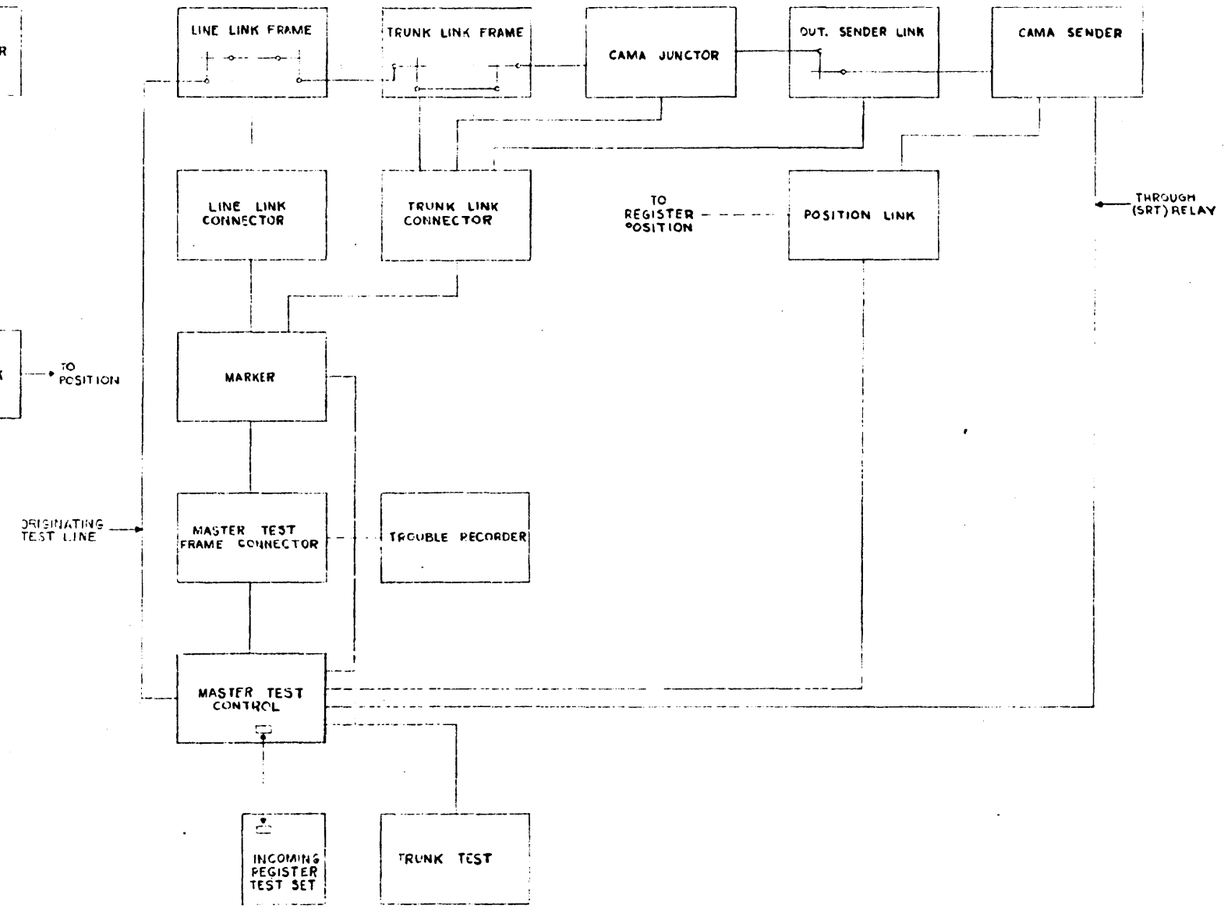
DRAWING ISSUE
5ID PNR

FIG. 244
CAMA SENDER TEST



* JACK MULTIPLE ON CAMA SENDER FRAMES AS WELL

FIG. 245
CAMA JUNCTOR CLASS OF TRUNK TEST
CONNECTION SETUP TO SENDER
CONNECTION SETUP TO SIMULATED POSITION



SD-25800-01-D67

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D67

BELL TELEPHONE LABORATORIES INCORPORATED
FORM SIZE 6S
PRINTED IN U.S.A.

FIG. 246

CAMA JUNCTOR TEST
SHOWING CONNECTION ESTABLISHED BETWEEN SENDER AND POSITION
SHOWING CONNECTION ESTABLISHED BETWEEN SENDER AND TRANSVERTER
SHOWING CONNECTION ESTABLISHED BETWEEN TRUNK AND RECORDER FOR INITIAL ENTRY

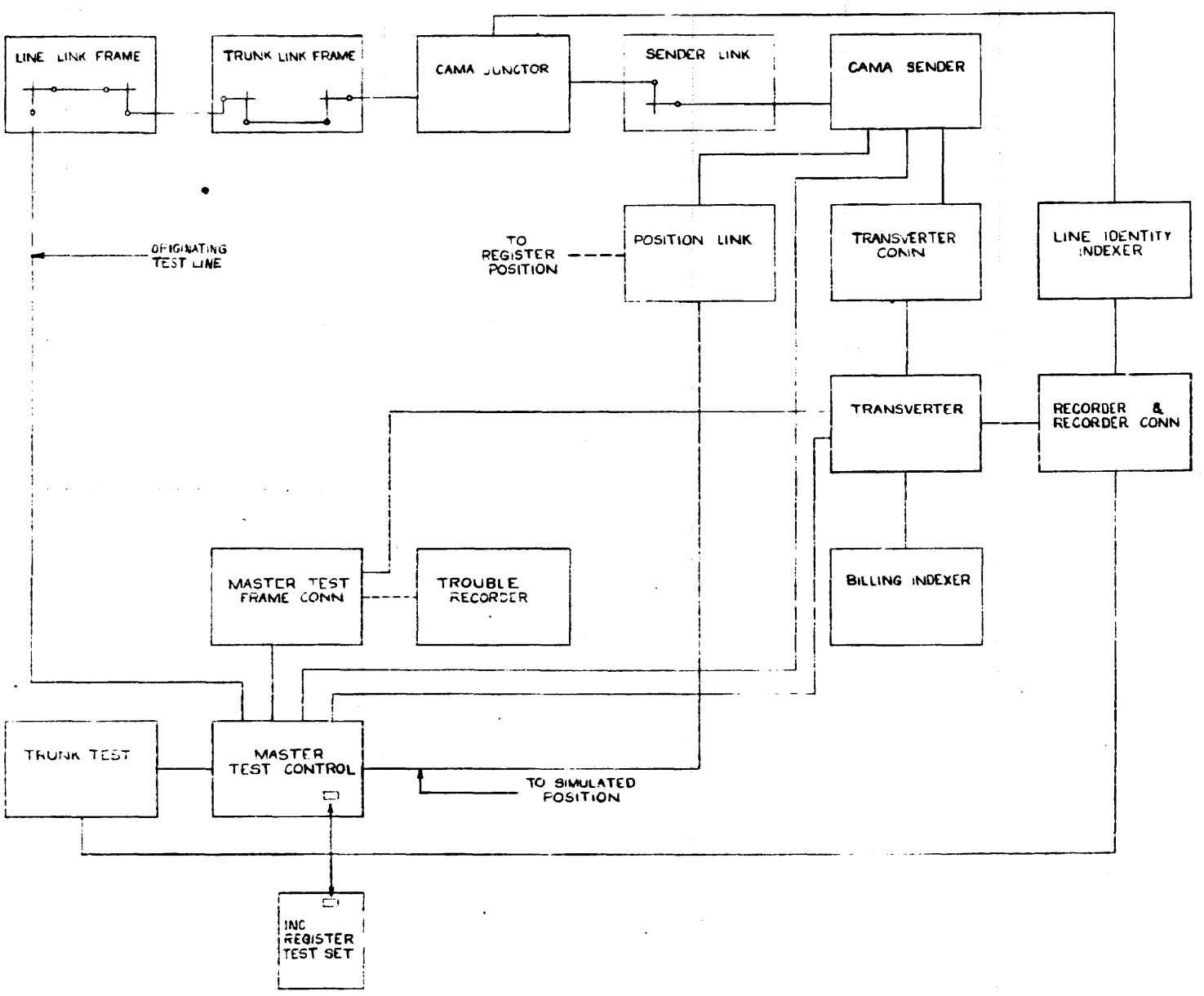
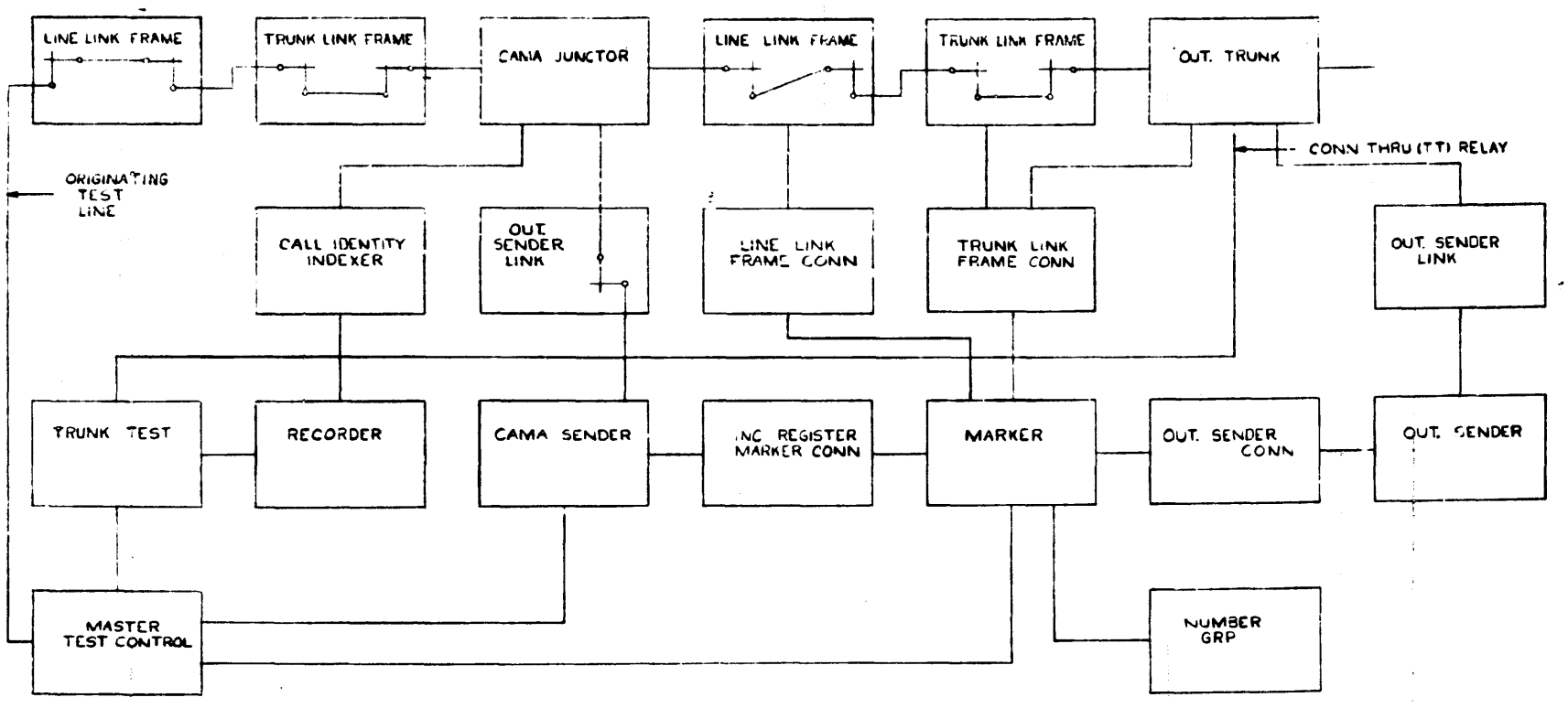


FIG. 247

CAMA JUNCTOR CLASS OF TEST
CONNECTION SET UP TO OUTGOING TRUNK



CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT
BELL TELEPHONE LABORATORIES INCORPORATED
6S
2
SD-25800-01-D68
5
DRAWING ISSUE

FIG. 248

ITNP CLASS OF TRUNK TEST
SETTING UP CONNECTION TO A CAMA SENDER

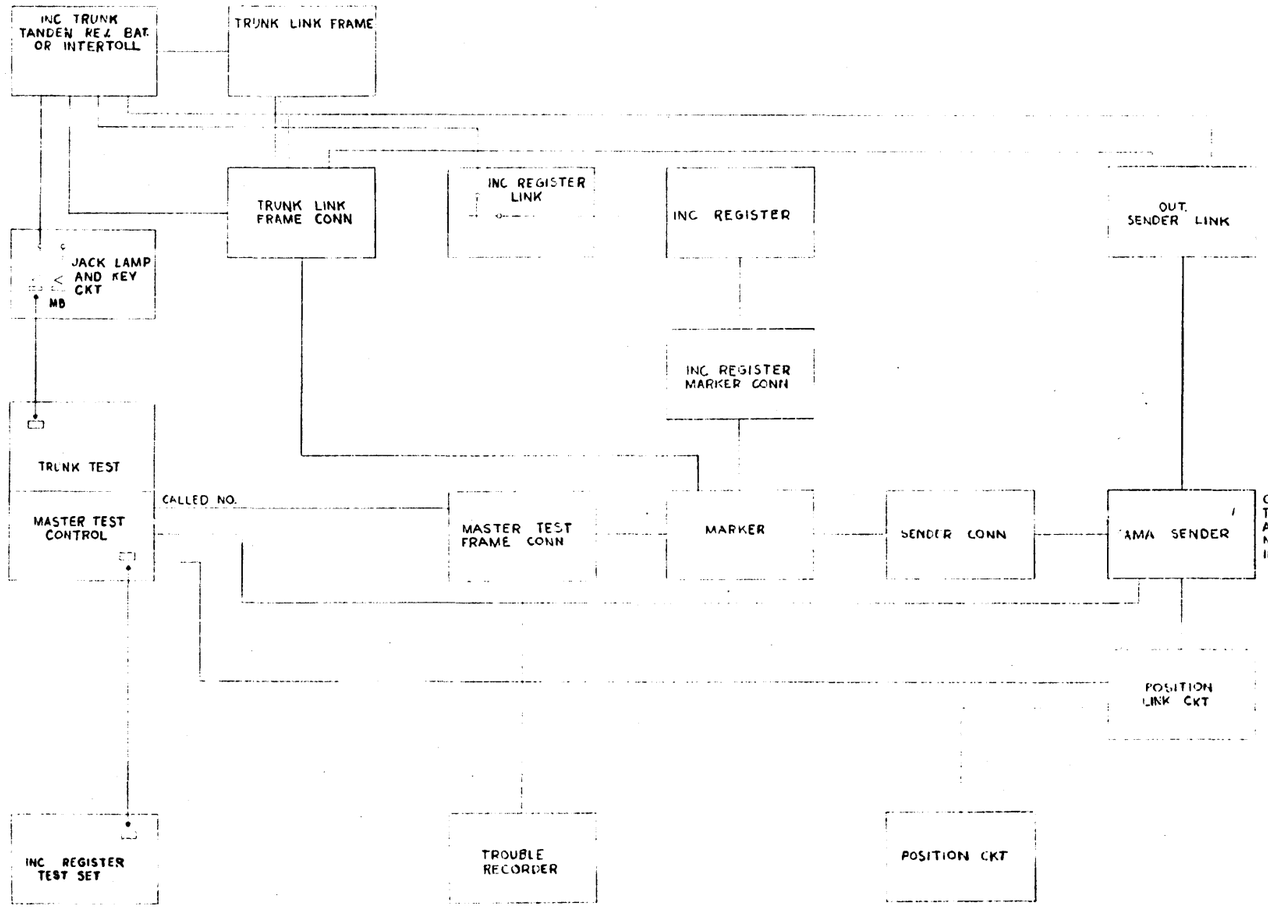
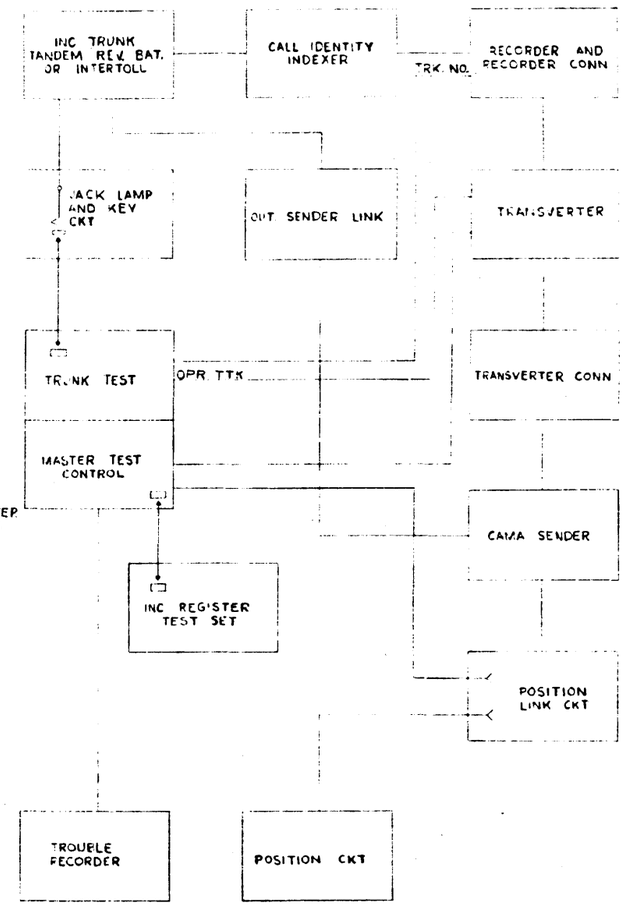


FIG. 249

ITNP CLASS OF TRUNK TEST
SETTING UP CONNECTION FROM CAMA SENDER TO TRANSVERTER



DRAWING ISSUE
SID | NAV | WECO | AMC

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D69

BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D69

FIG. 250

ITNP CLASS OF TRUNK TEST SETTING
UP CONNECTION FROM INCOMING TRUNK TO TEST LINE

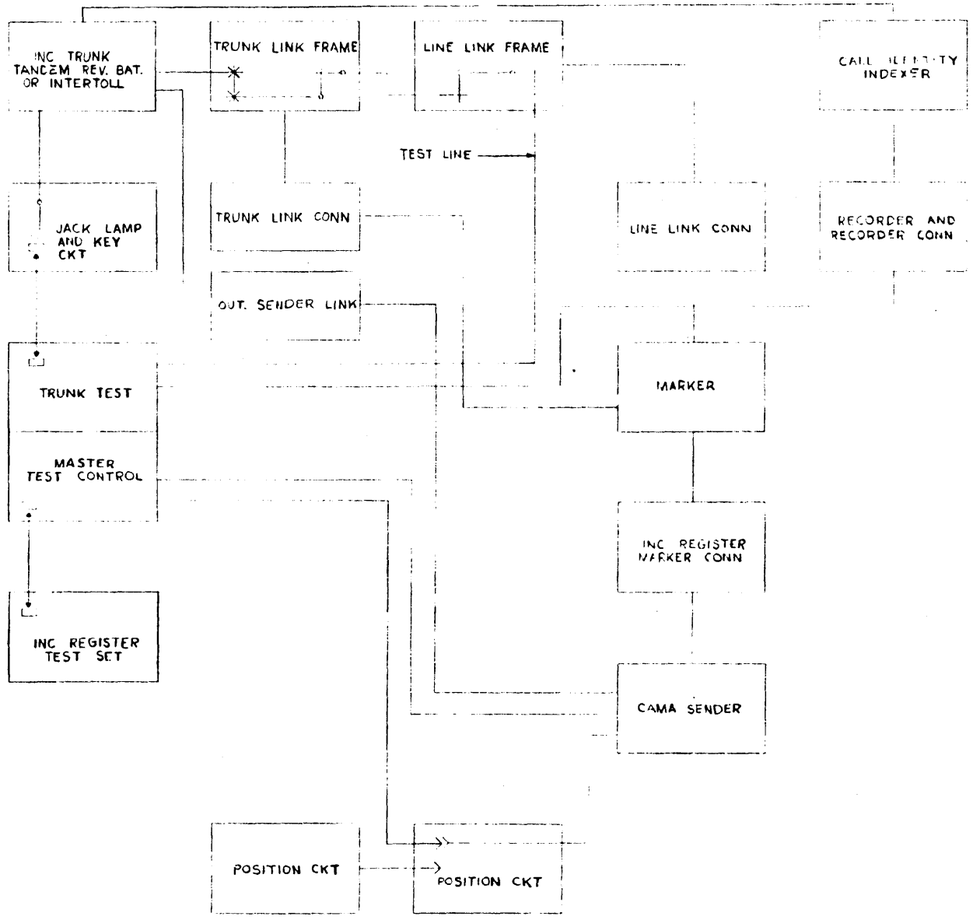
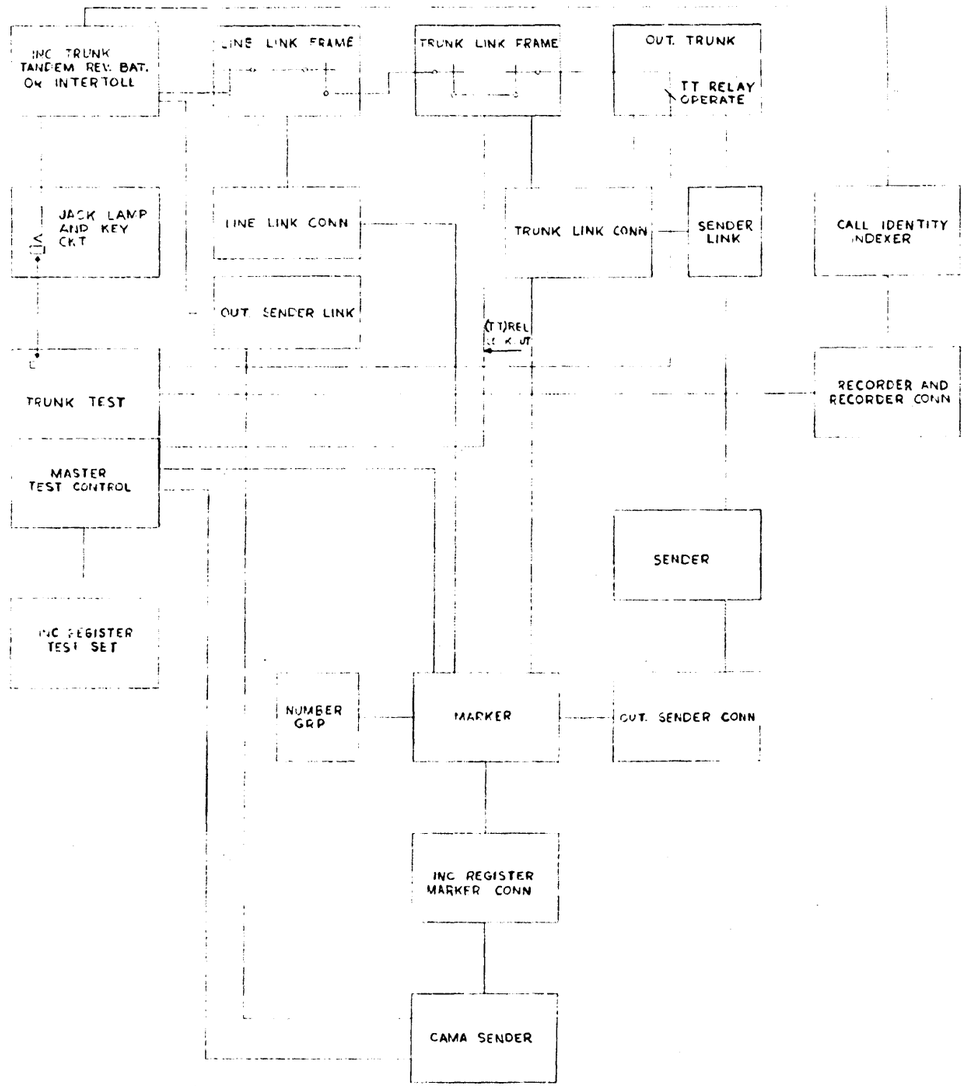


FIG. 251

ITNP CLASS OF TRUNK TEST SETTING
UP CONNECTION FROM INCOMING TRUNK TO OUTGOING TRUNK



DRAWING ISSUE
8ID | DS W. A-H

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D70
BELL TELEPHONE LABORATORIES INCORPORATED
DRG SIZE 6S

SD-25800-01-D70

FIG. 252

CAMA INTERMARKER GROUP TRUNK TEST
SHOWING CONNECTION ESTABLISHED TO SENDER
SHOWING CONNECTION ESTABLISHED TO SIMULATED POSITION

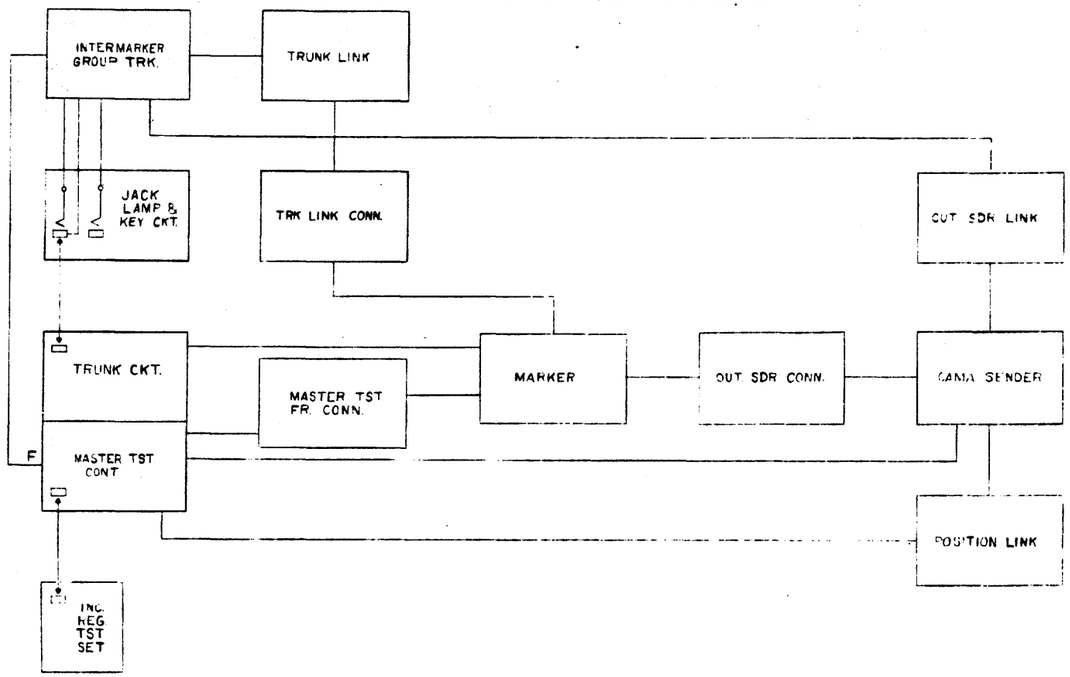
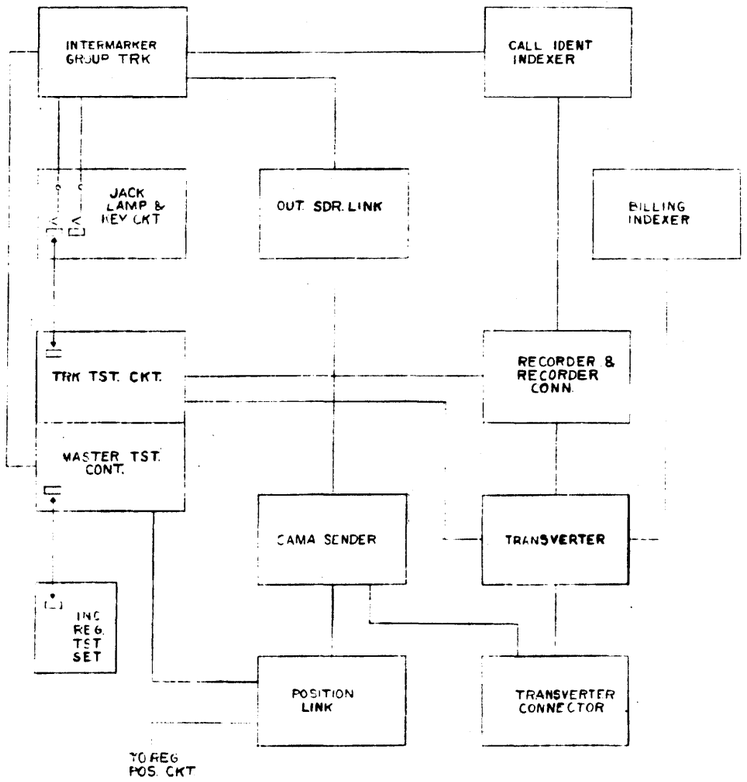


FIG. 253

CAMA INTERMARKER GROUP TRUNK TEST
SHOWING CONNECTION TO TRANSVERTER
SHOWING RECORDING TO INITIAL ENTRY



DRAWING ISSUE
51D DS
53D

53

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D 71

BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D71

FIG. 254

THIRD STAGE OF CAMA INTERMARKER GROUP
TRUNK TEST SUSCRIBER TO TRUNK

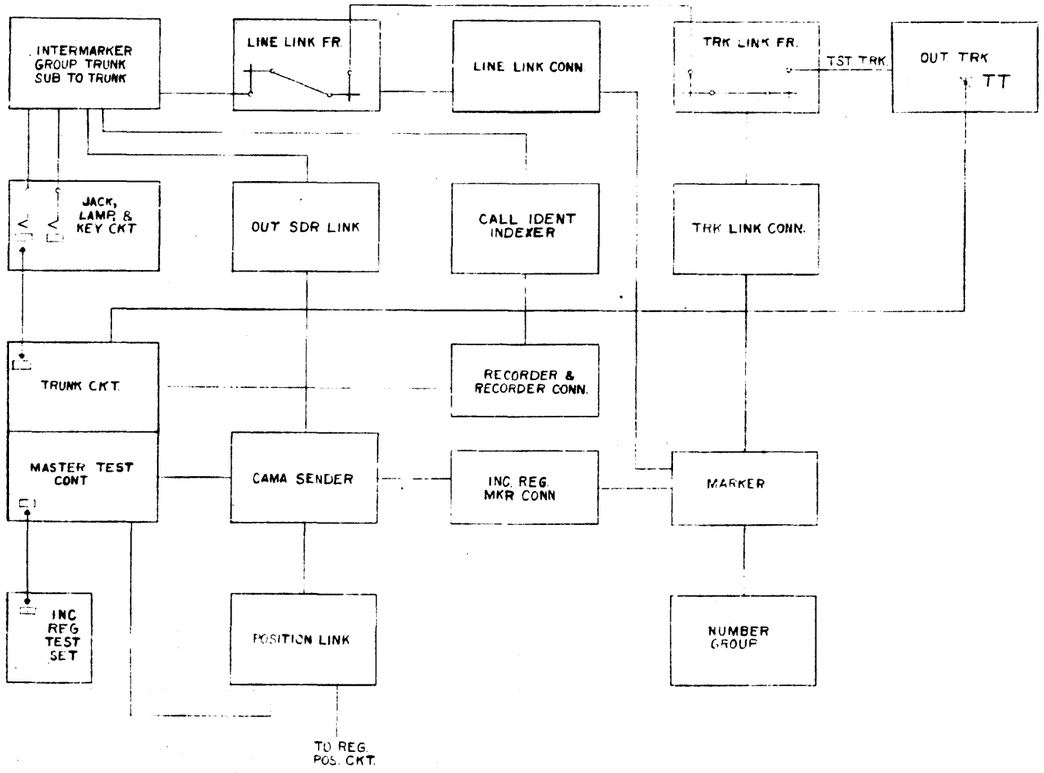
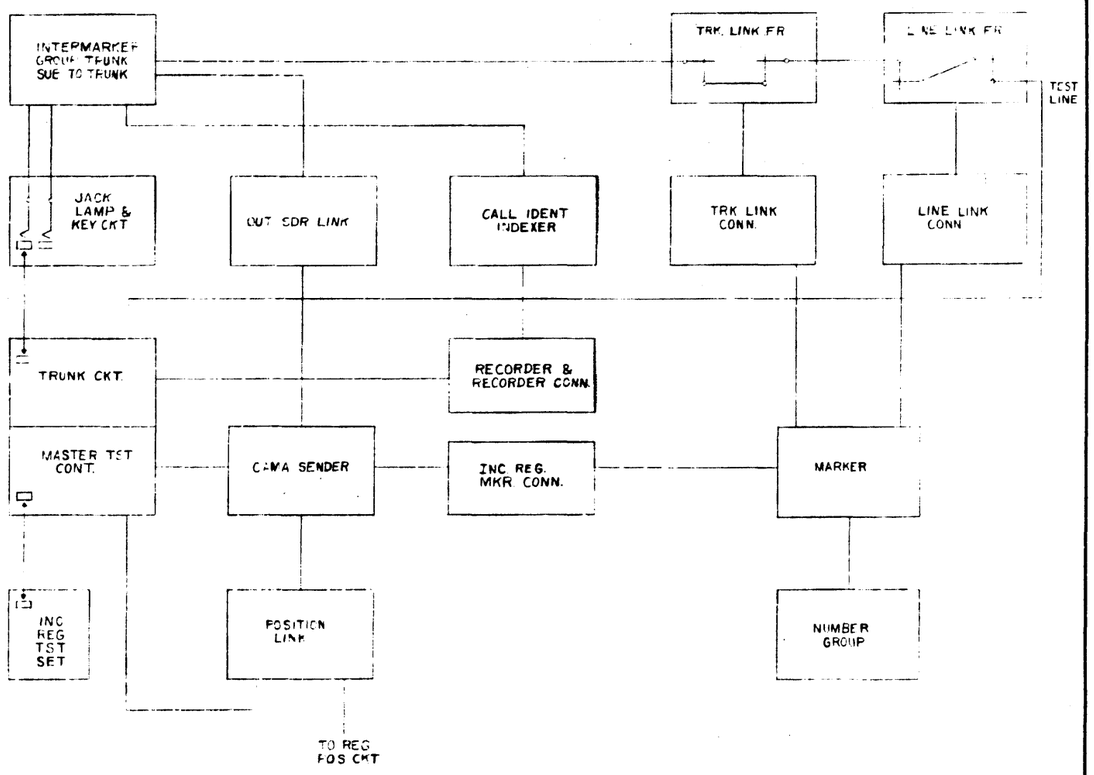


FIG. 255

THIRD STAGE OF INTERMARKER GROUP
TRUNK TEST SUBSCRIBER TO SUSCRIBER



DRAWING ISSUE
SID
FND

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D72
BELL TELEPHONE LABORATORIES
INCORPORATED
65

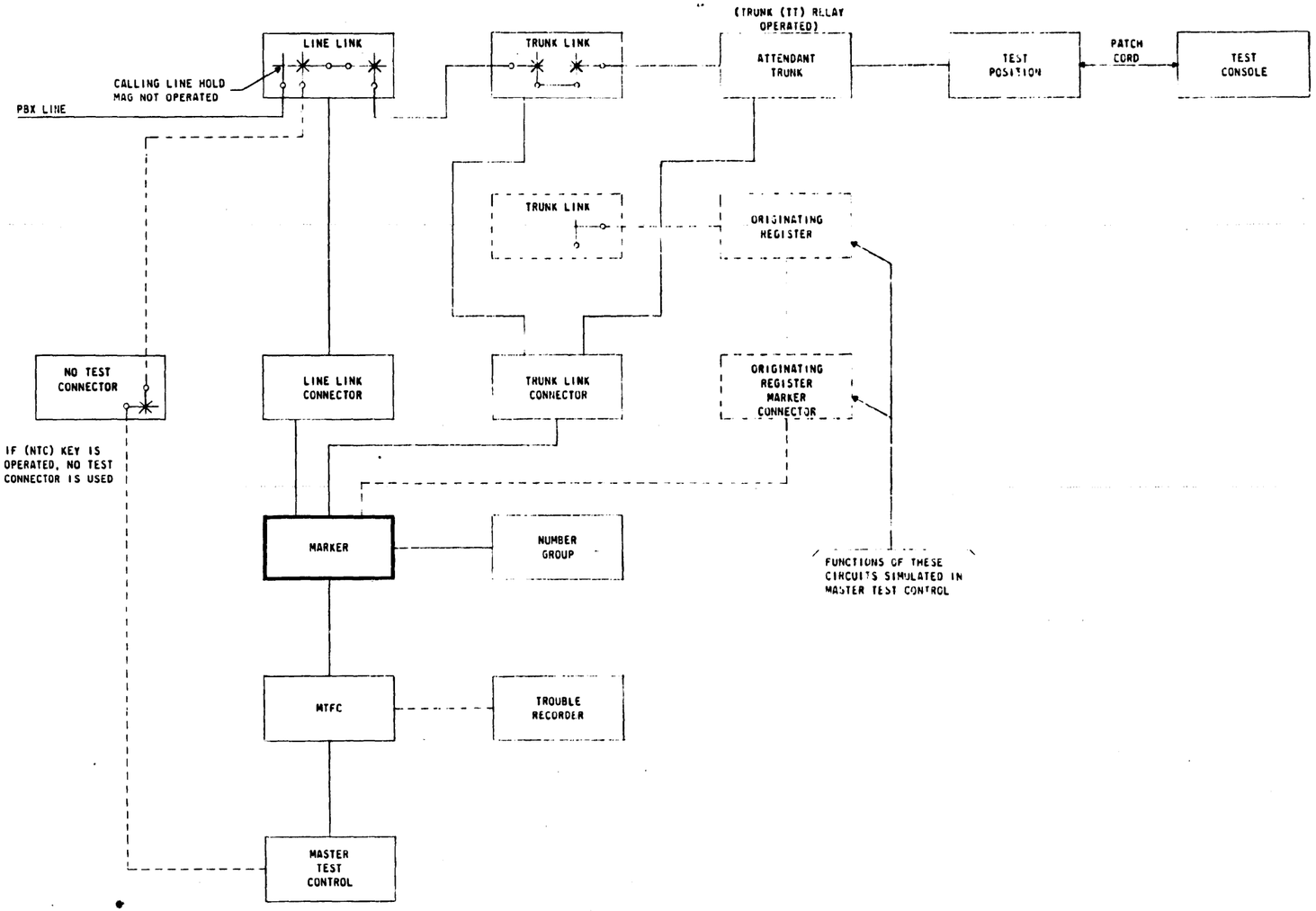
SD-25800-01-D72

FIG.256

CENTREX SERVICE

"ORIG" CLASS OF MARKER TEST

(SIMULATE DIAL "0" CALL FROM PBX STATION TO ASSOCIATED ATTENDANT)



DRAWING ISSUE

SID 3 NR 4AG

SD-25800-01-D73

51

CROSSBAR SYSTEMS

NO.5

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

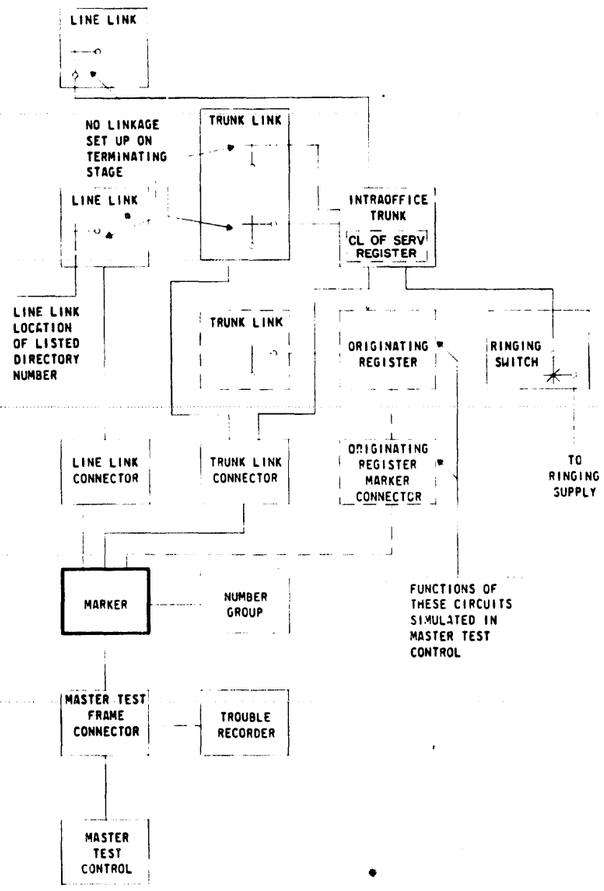
6S

SD-25800-01-D73

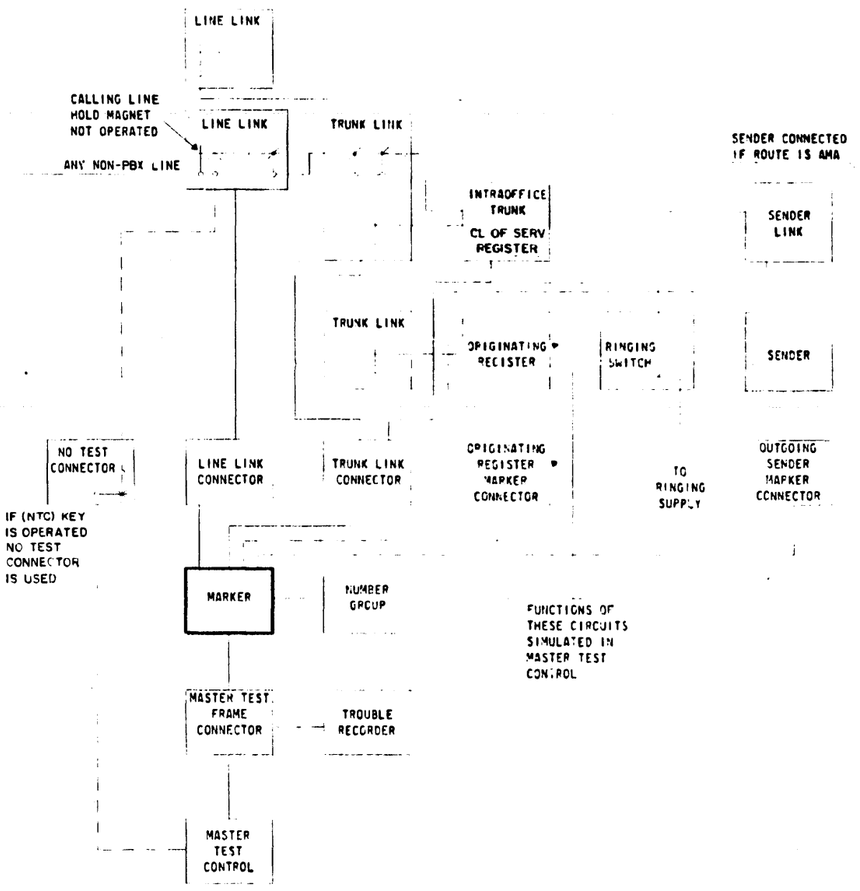
FIG. 257

CENTREX SERVICE
"ORIG" CLASS OF MARKER TEST
(SIMULATE LISTED DIRECTORY NUMBER CALL FROM NON-PBX CUSTOMER TO PBX ATTENDANT)

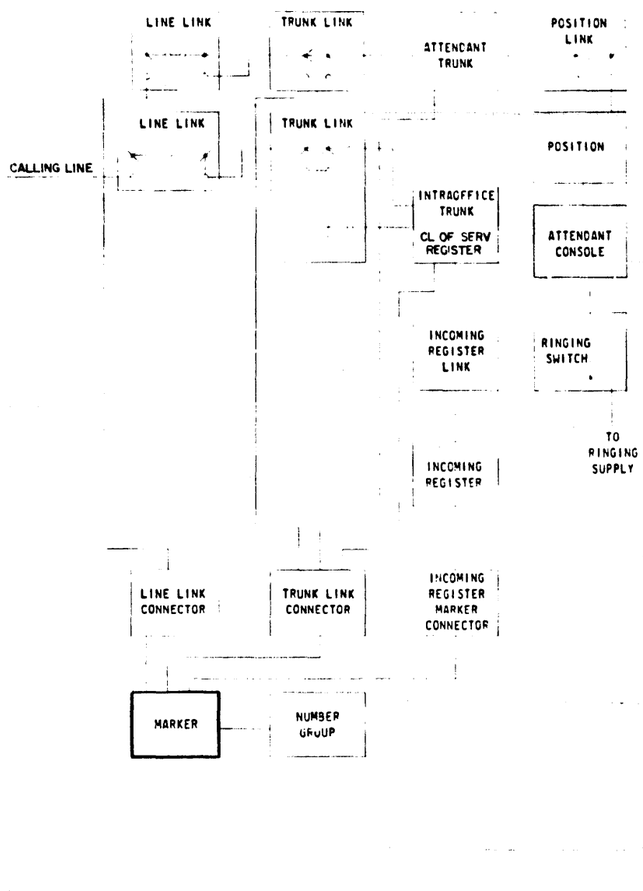
DRAWING ISSUE
5ID GA/(PL)AMD



(A)
FIRST MARKER USAGE - TERMINATING STAGE



(B)
FIRST MARKER USAGE - ORIGINATING STAGE



(C)
SECOND MARKER USAGE
(NOT PART OF THIS MARKER TEST)

SD-25800-01-D74

51

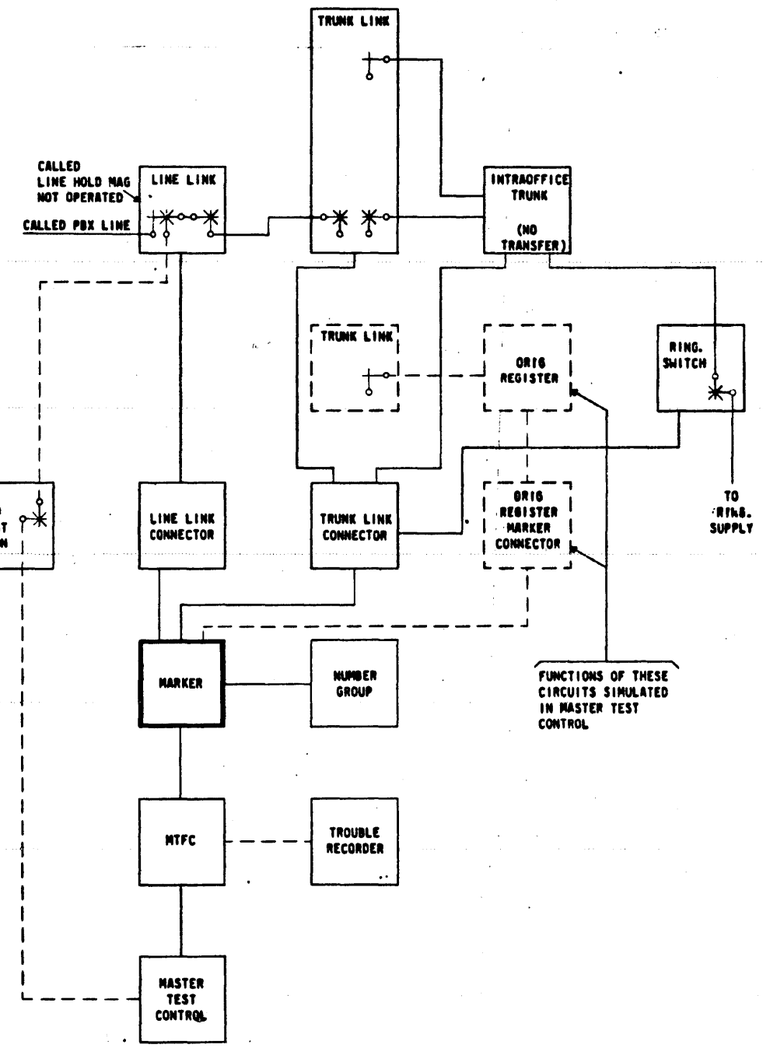
CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D74
BELL TELEPHONE LABORATORIES INCORPORATED
6S

FIG. 258

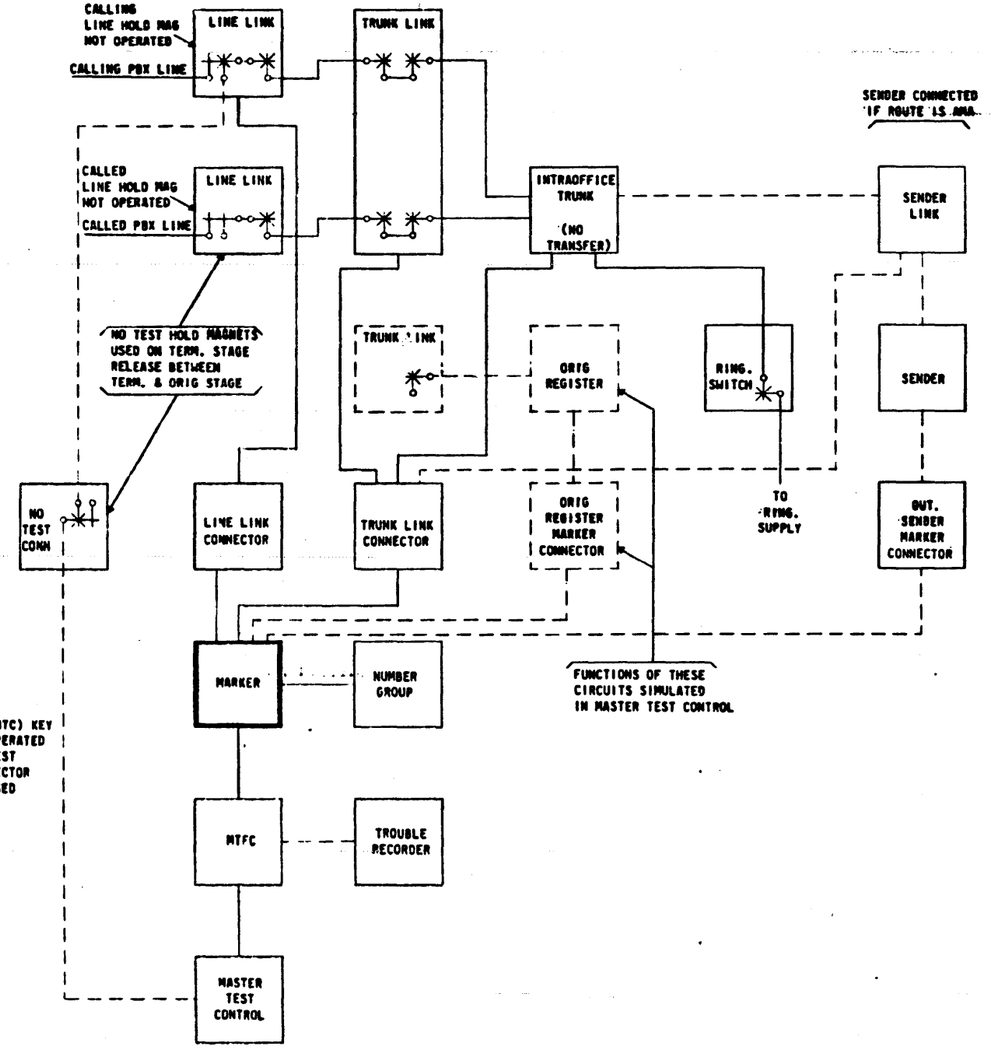
CENTREX SERVICE

"ORIG" CLASS OF MARKER TEST

(SIMULATE INTRAOFFICE CALL BETWEEN TWO STATIONS OF SAME PBX)



(A)
TERMINATING STAGE



(B)
ORIGINATING STAGE

DRAWING ISSUE

SID

51

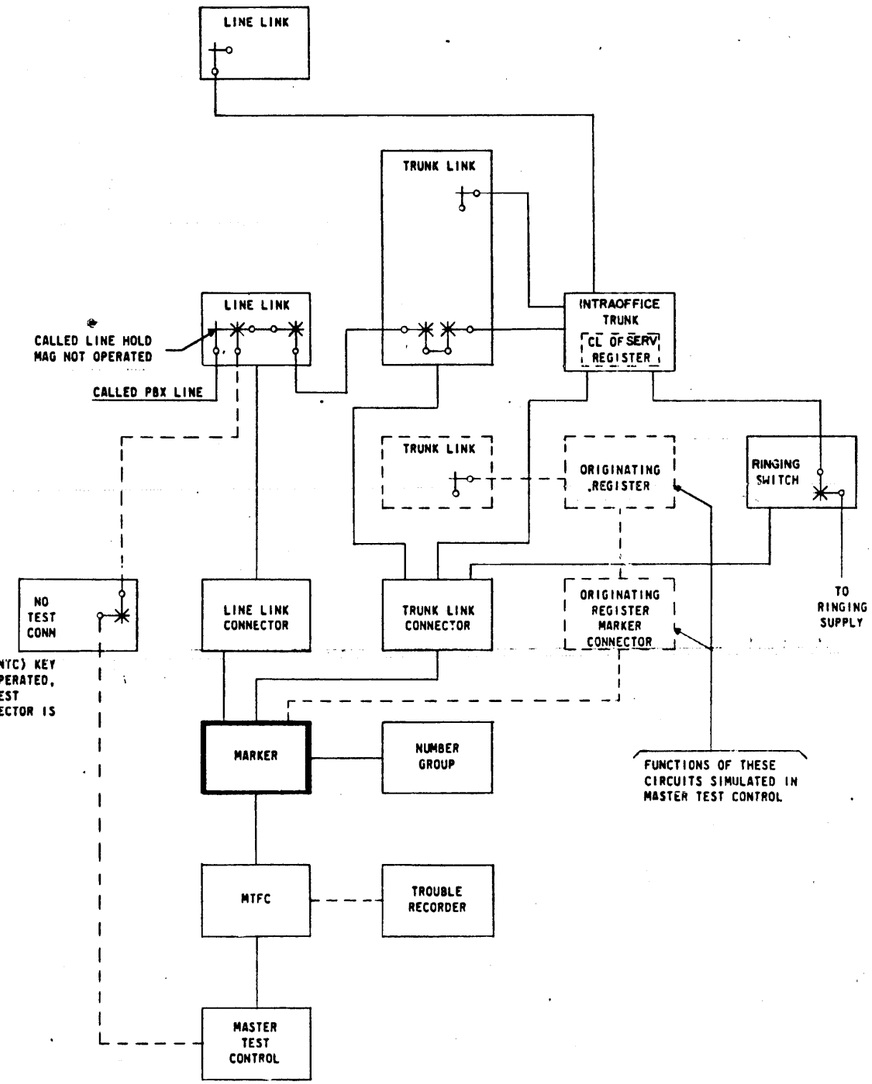
CROSSBAR SYSTEMS	
NO. 5 MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-D75
BELL TELEPHONE LABORATORIES INCORPORATED	PAGE CODE 6S

SD-25800-01-D75

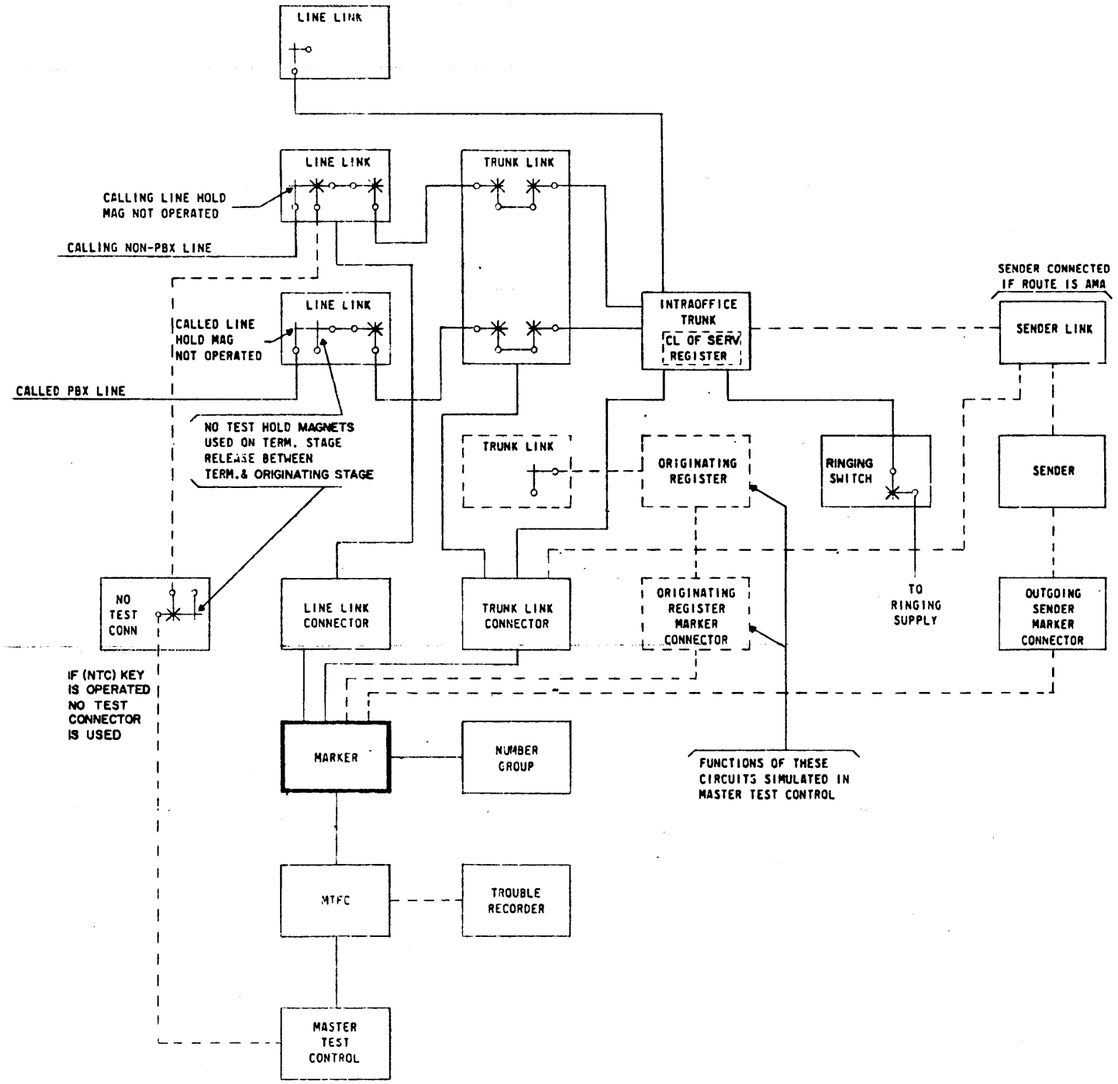
STABILO

FIG. 259

CENTREX SERVICE
"ORIG" CLASS OF MARKER TEST
(SIMULATE DIRECT-IN-DIALED INTRAOFFICE CALL TO PBX STATION)



(A)
TERMINATING STAGE



(B)
ORIGINATING STAGE

DRAWING ISSUE 6ID DS. Cross Bar

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D76
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D76

STABILO

FIG. 260

CENTREX SERVICE
"INC" CLASS OF MARKER TEST
(SIMULATE SEIZURE BY AN INC REGISTER CONNECTED TO AN INC TRK ON A DID CALL TO PBX STATION)

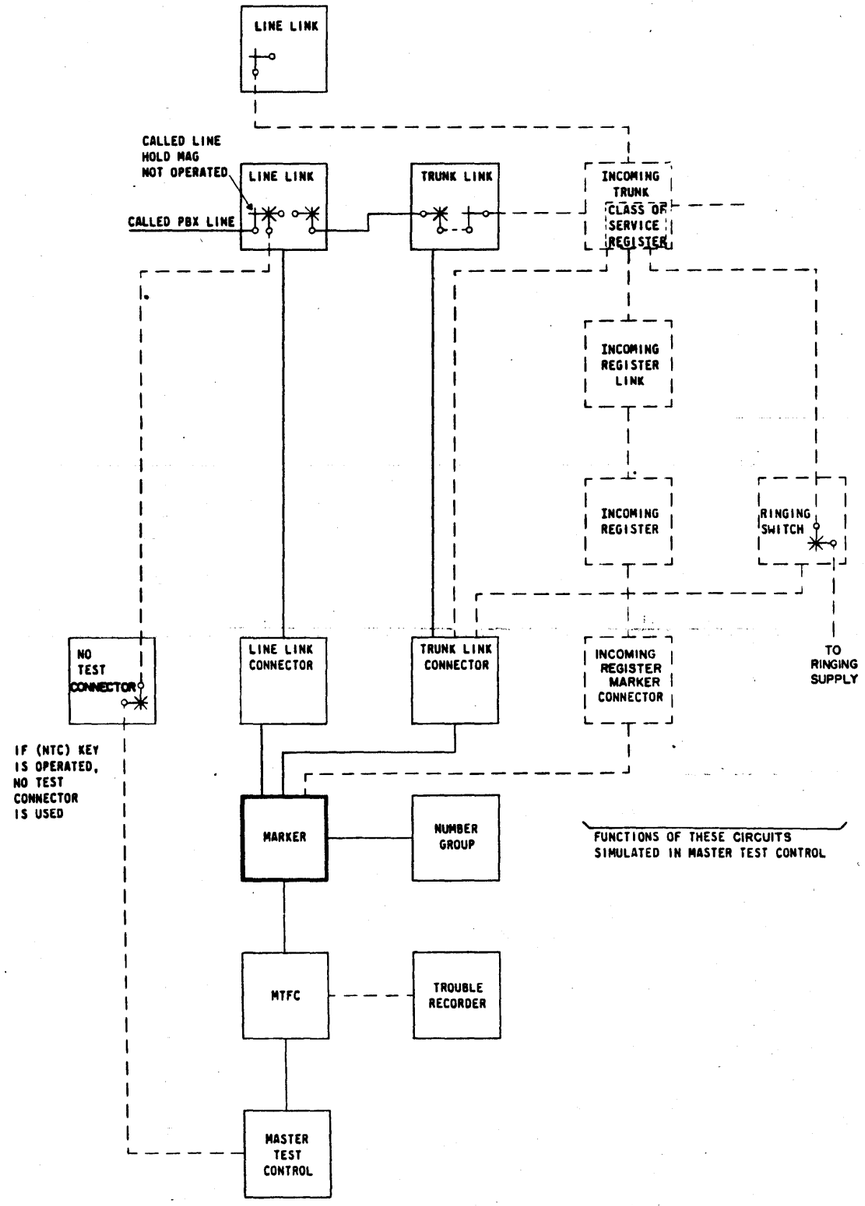
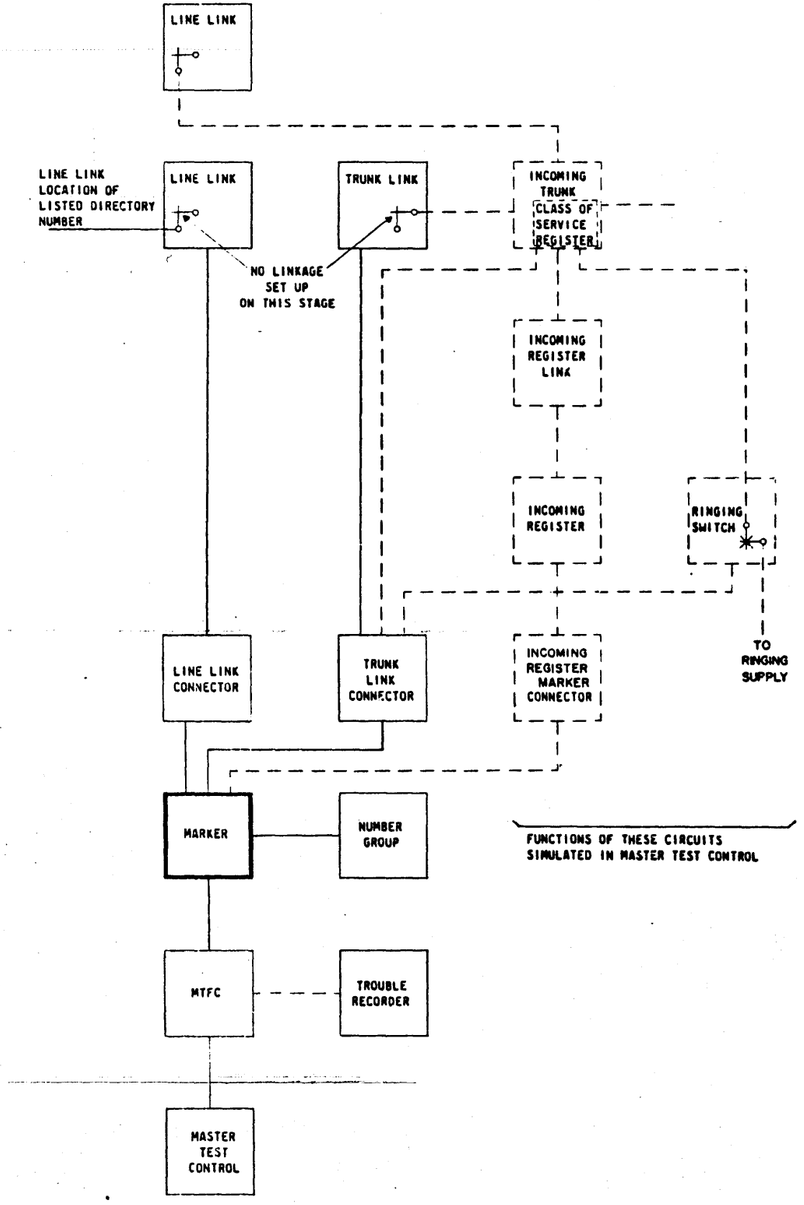


FIG. 261

CENTREX SERVICE
"INC" CLASS OF MARKER TEST
(SIMULATE FIRST STAGE OF A LISTED DIRECTORY NUMBER CALL VIA AN INC TRK TO A PBX ATTENDANT)



DRAWING ISSUE 510

51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D77
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-10-D77

STABILO

FIG. 262

CENTREX SERVICE
"INC" CLASS OF MARKER TEST
(SIMULATE SECOND STAGE OF A LISTED DIRECTORY NUMBER CALL VIA AN INC OR INTRAOFFICE TRUNK TO A PBX ATTENDANT)

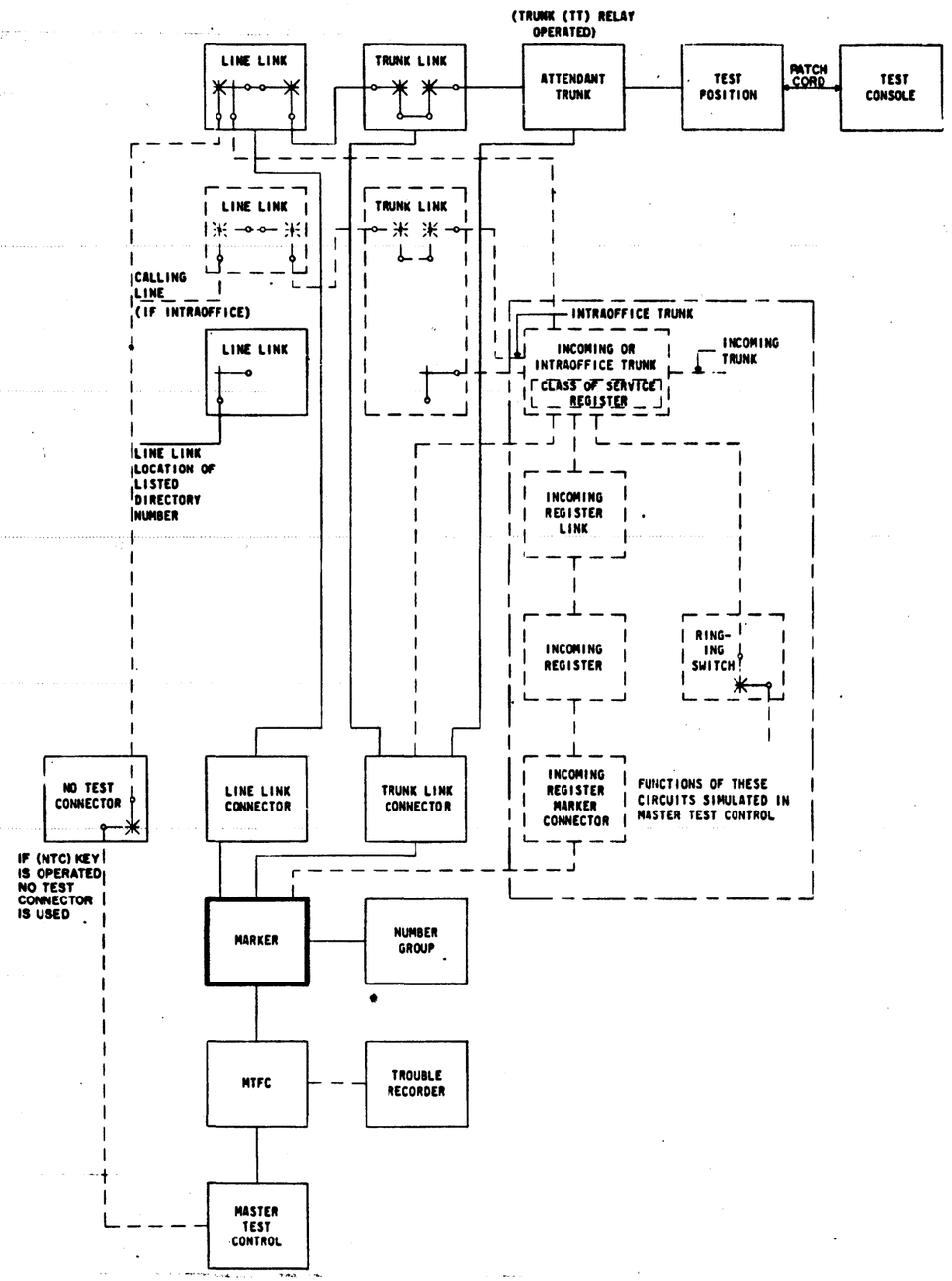
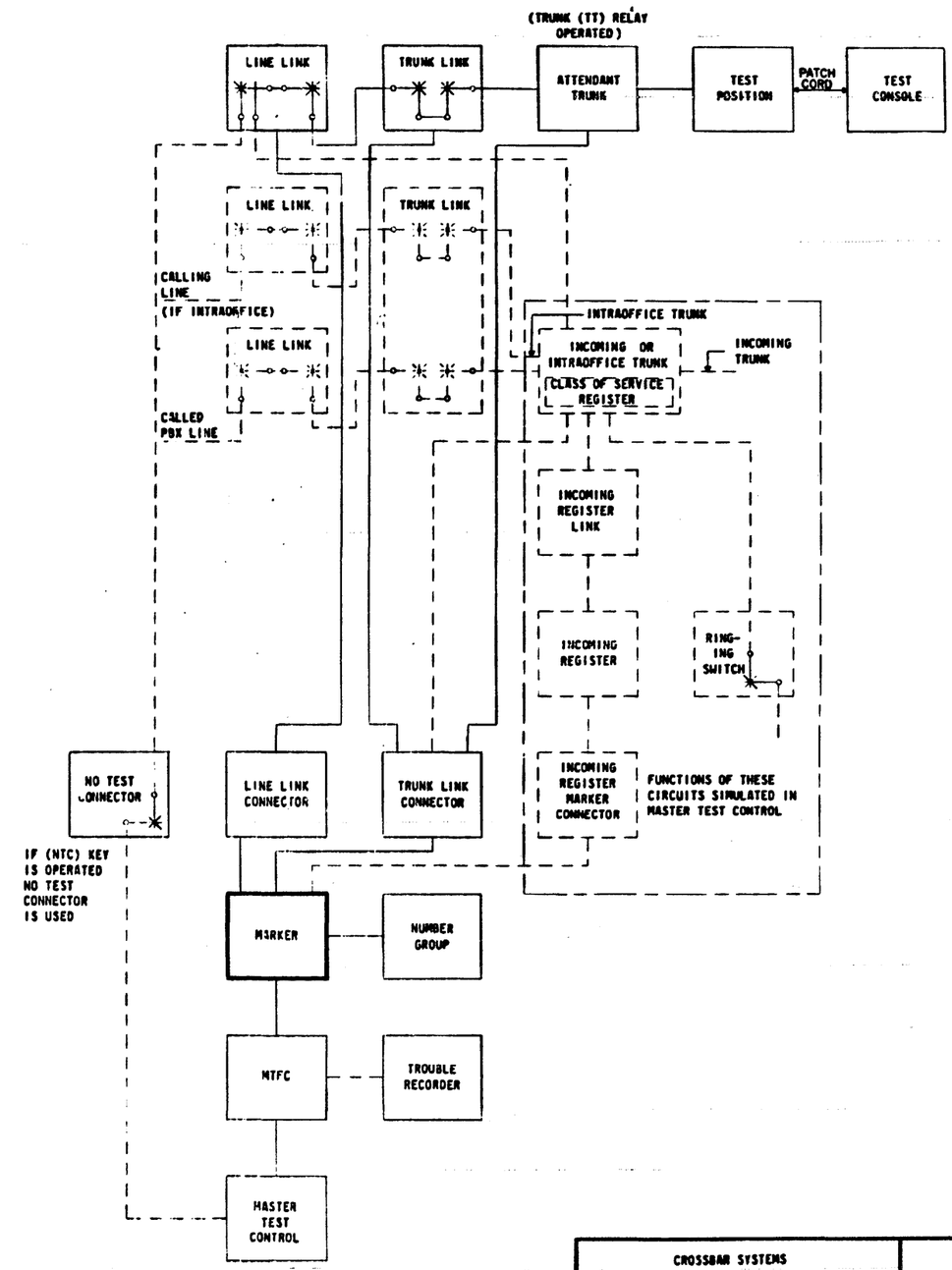


FIG. 263

CENTREX SERVICE
"INC" CLASS OF MARKER TEST
(SIMULATE A DIRECT-IN-DIALED CALL VIA AN INC OR INTRAOFFICE TRUNK TRANSFERRED TO PBX ATTENDANT)



51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT
(2)
SD-25800-01-D78
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D78

STABILO

FIG. 264

CENTREX SERVICE
"INC" CLASS OF MARKER TEST
(SIMULATE A "START-IN" CALL FROM A PBX ATTENDANT CONNECTED TO A TRANSFERRED INC OR INTRAOFFICE TRUNK)

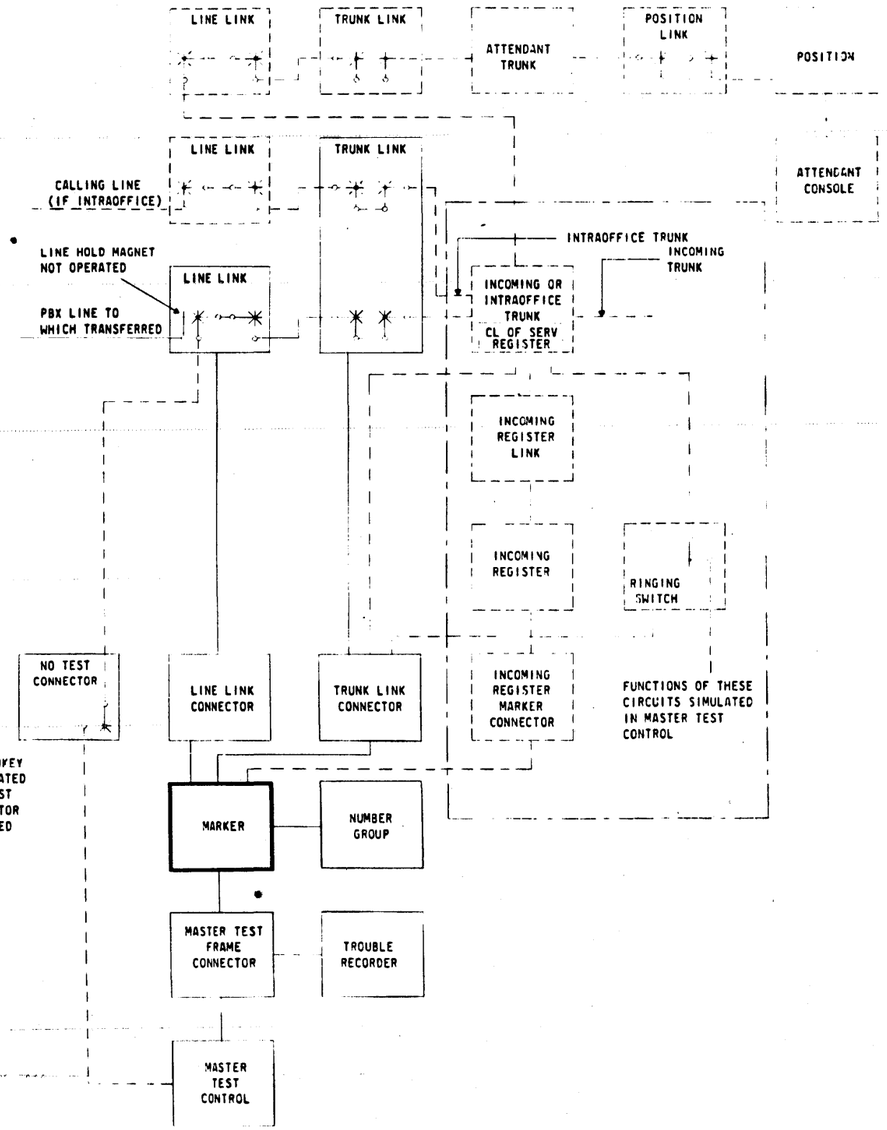
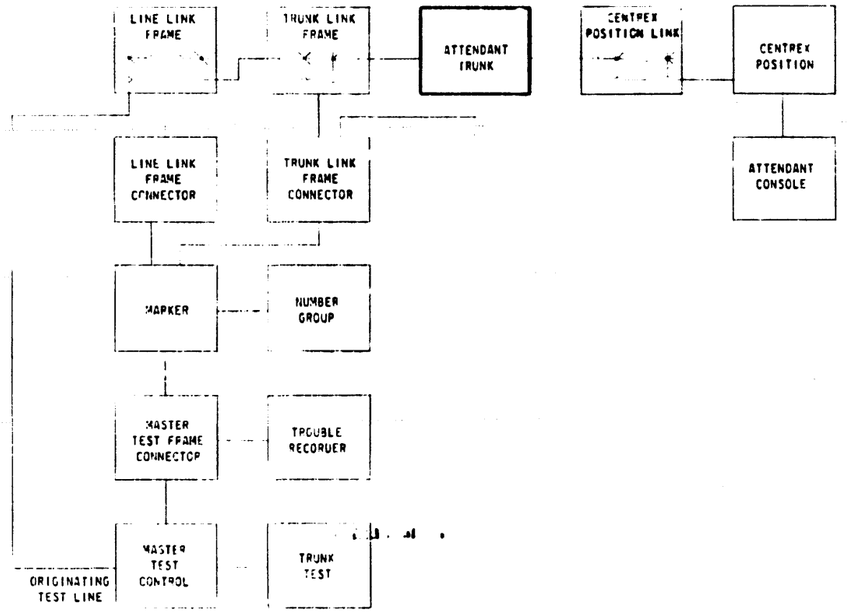


FIG. 265

CENTREX SERVICE
"MISC" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED FROM ORIGINATING TEST LINE TO PBX ATTENDANT)



DRAWING ISSUE
SID DS

SD-25800-01-D79

51

CROSSBAR SYSTEMS NO. 5 MASTER TEST CONTROL CIRCUIT 2	SD-25800-01-D79
BELL TELEPHONE LABORATORIES INCORPORATED	6S

FIG. 266
CENTREX SERVICE
"ITDO" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST DIAL "0" FEATURES OF ATTENDANT TRUNK)

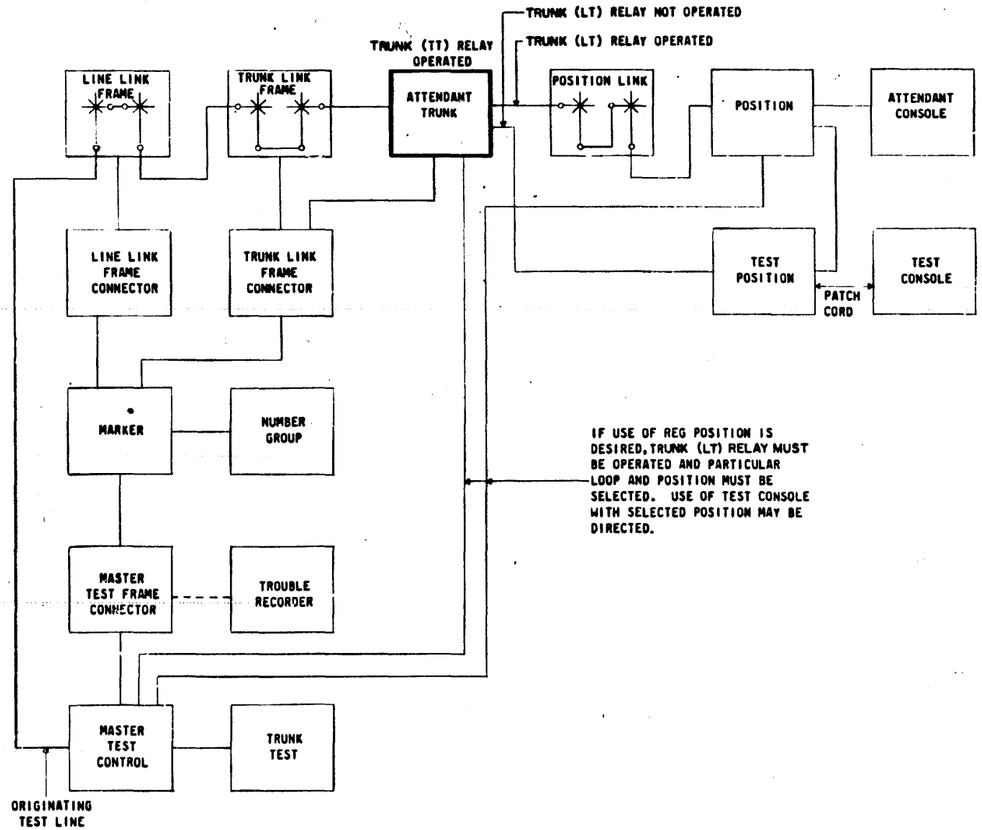
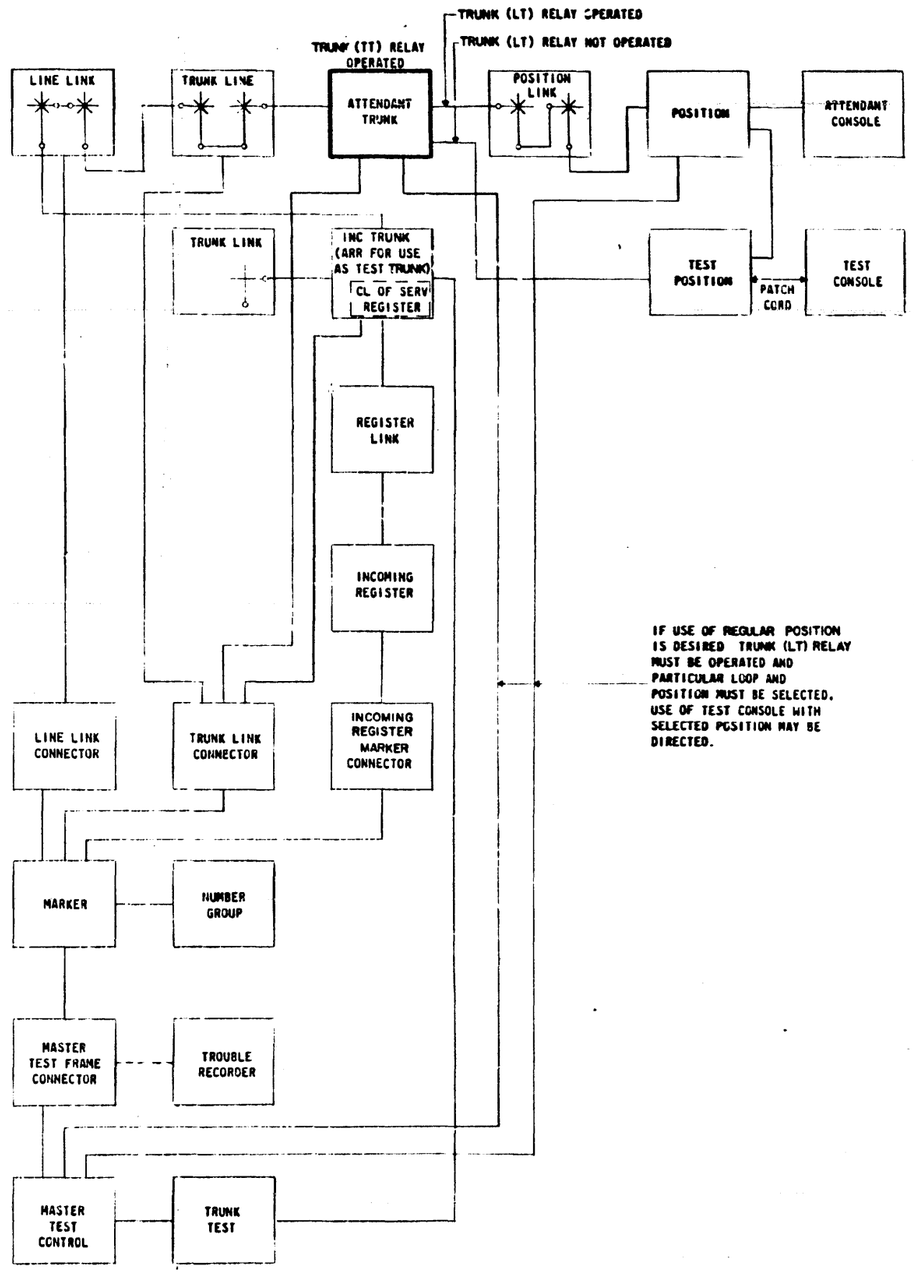


FIG. 267
CENTREX SERVICE
"ATNT" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST LISTED DIRECTORY NUMBER AND TRANSFER FEATURES OF AN ATTENDANT Trunk)



DRAWING ISSUE
81D
53D
59A

59

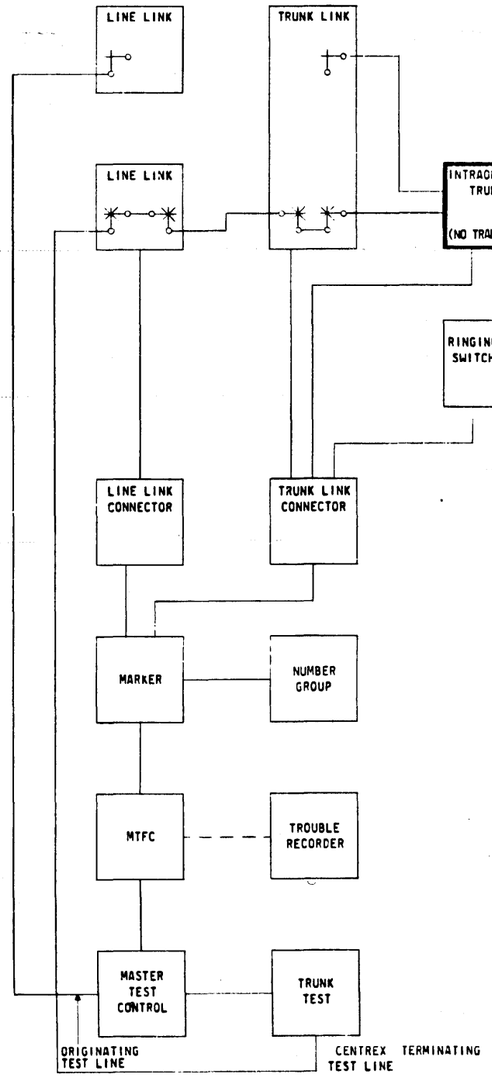
CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D80
BELL TELEPHONE LABORATORIES INCORPORATED
PAGE 65

SD-25800-01-D80

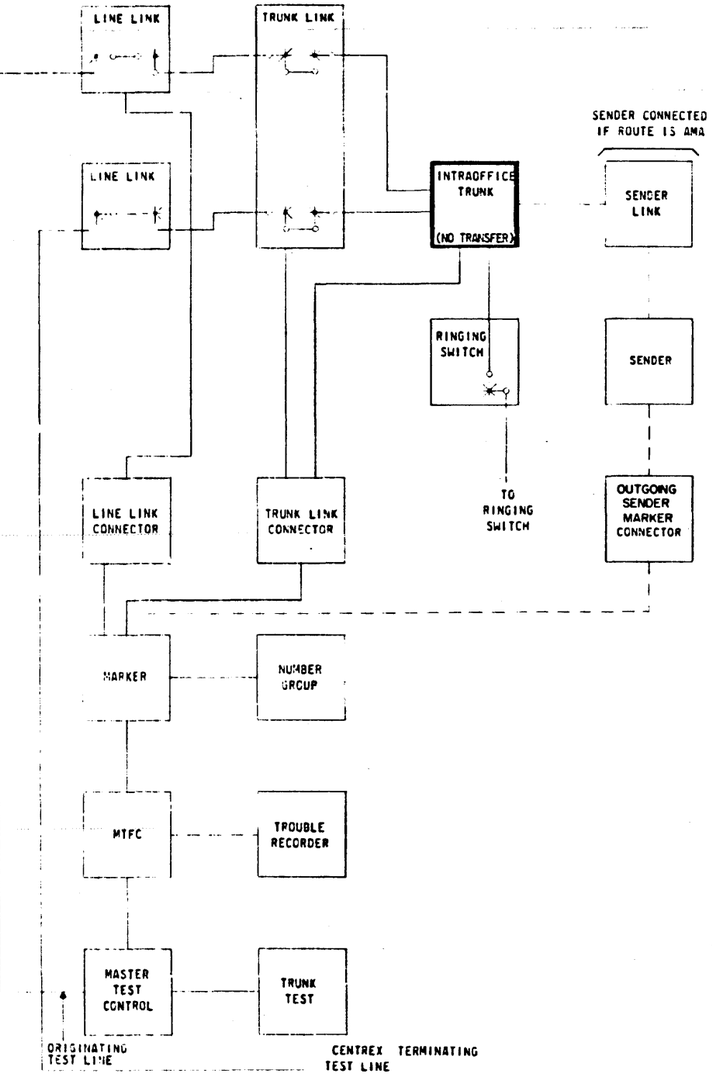
FIG. 268

CENTREX SERVICE
"IAO" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST FEATURES OF A NON-TRANSFERABLE INTRAOFFICE TRUNK)

DRAWING ISSUE 5ID GAV K-Amp



(A)
TERMINATING STAGE



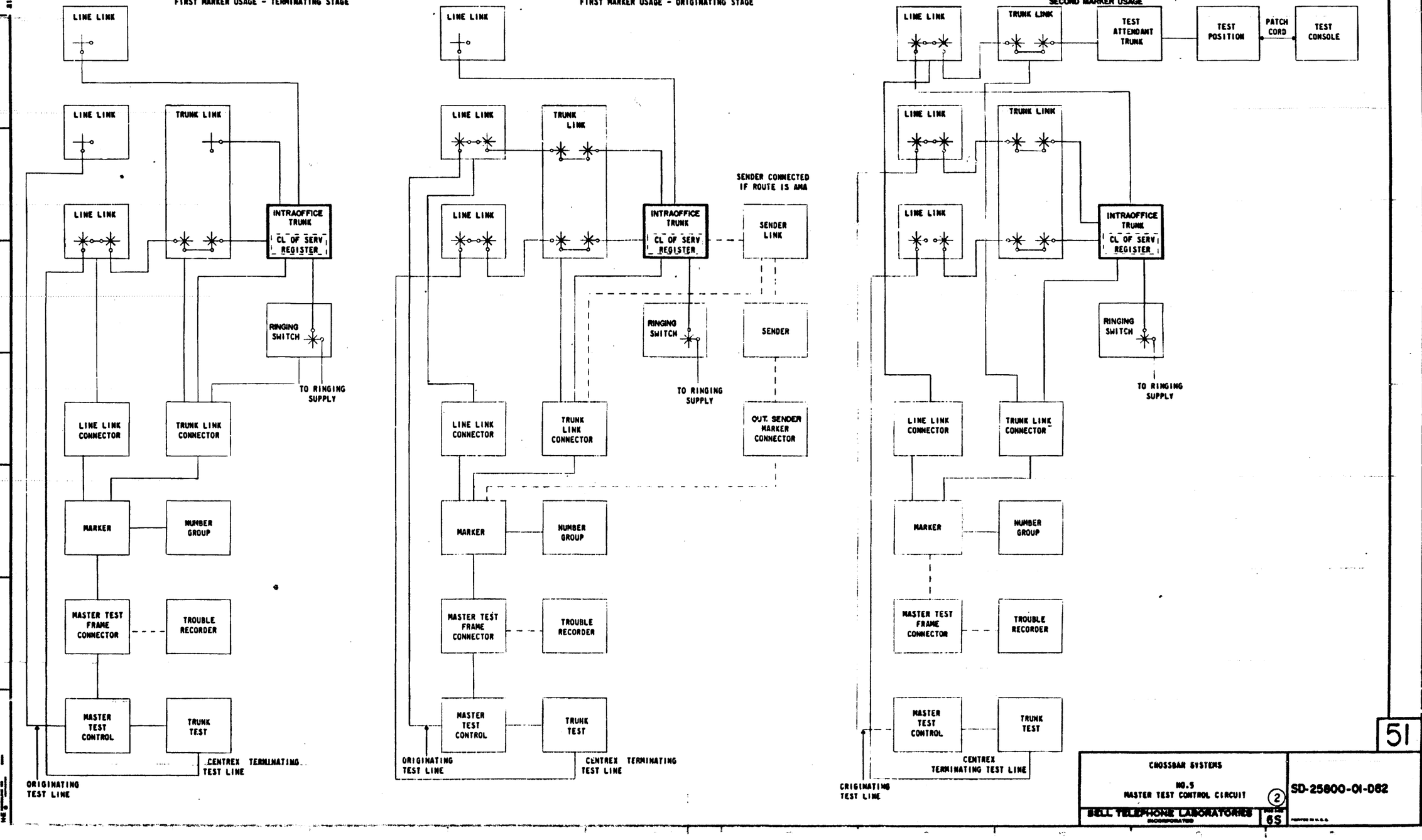
(B)
ORIGINATING STAGE

SD-25800-01-D81

CROSSBAR SYSTEMS NO. 5 MASTER TEST CONTROL CIRCUIT	(2)	SD-25800-01-D81
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

FIG. 269

CENTREX SERVICE
"IAO" CLASS OF TRUNK TEST
(CONNECTIONS ESTABLISHED TO TEST THE TRANSFER FEATURES OF AN INTRAOFFICE TRUNK)



SD-25800-01-D62

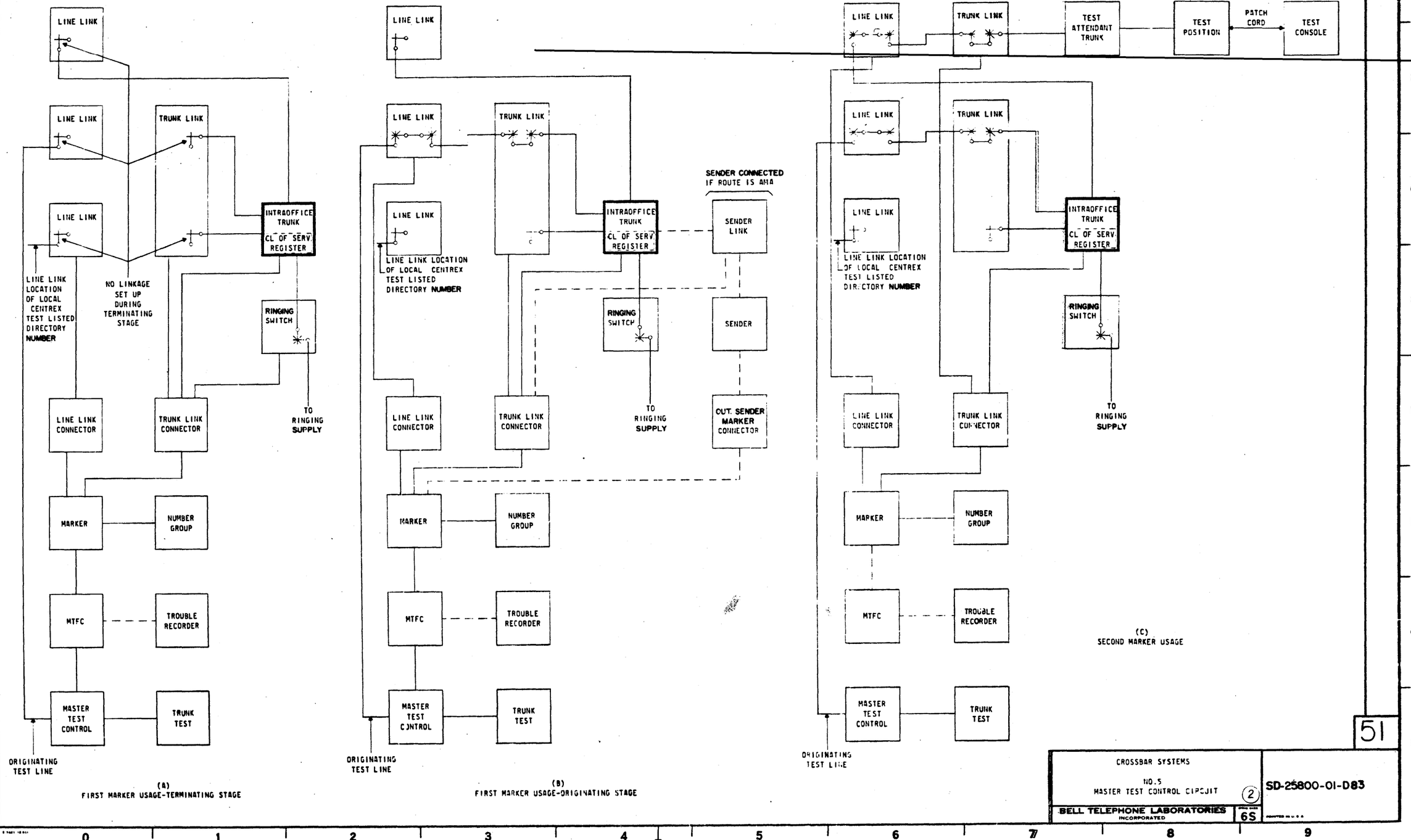
STABILO

51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT
(2)
SD-25800-01-D62
BELL TELEPHONE LABORATORIES INCORPORATED
6S

FIG. 270

CENTREX SERVICE
"IAO" CLASS OF TRUNK TEST
(CONNECTIONS ESTABLISHED TO TEST LISTED DIRECTORY NUMBER FEATURES OF AN INTRAOFFICE TRUNK)



(A)
FIRST MARKER USAGE-TERMINATING STAGE

(B)
FIRST MARKER USAGE-ORIGINATING STAGE

(C)
SECOND MARKER USAGE

DRAWING ISSUE
51D

51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D83

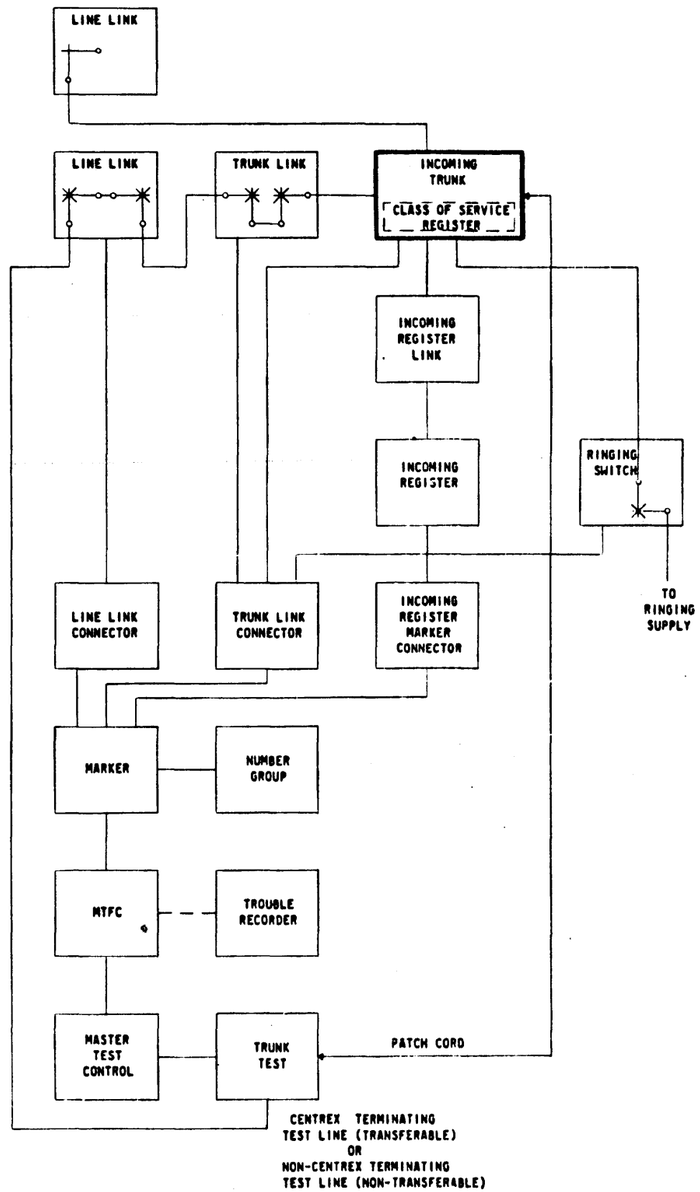
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D83

HALIFAX

FIG. 271

CENTREX SERVICE
"ITMP" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST DIRECT-IN-DIALED FEATURES OF AN INCOMING TRUNK)



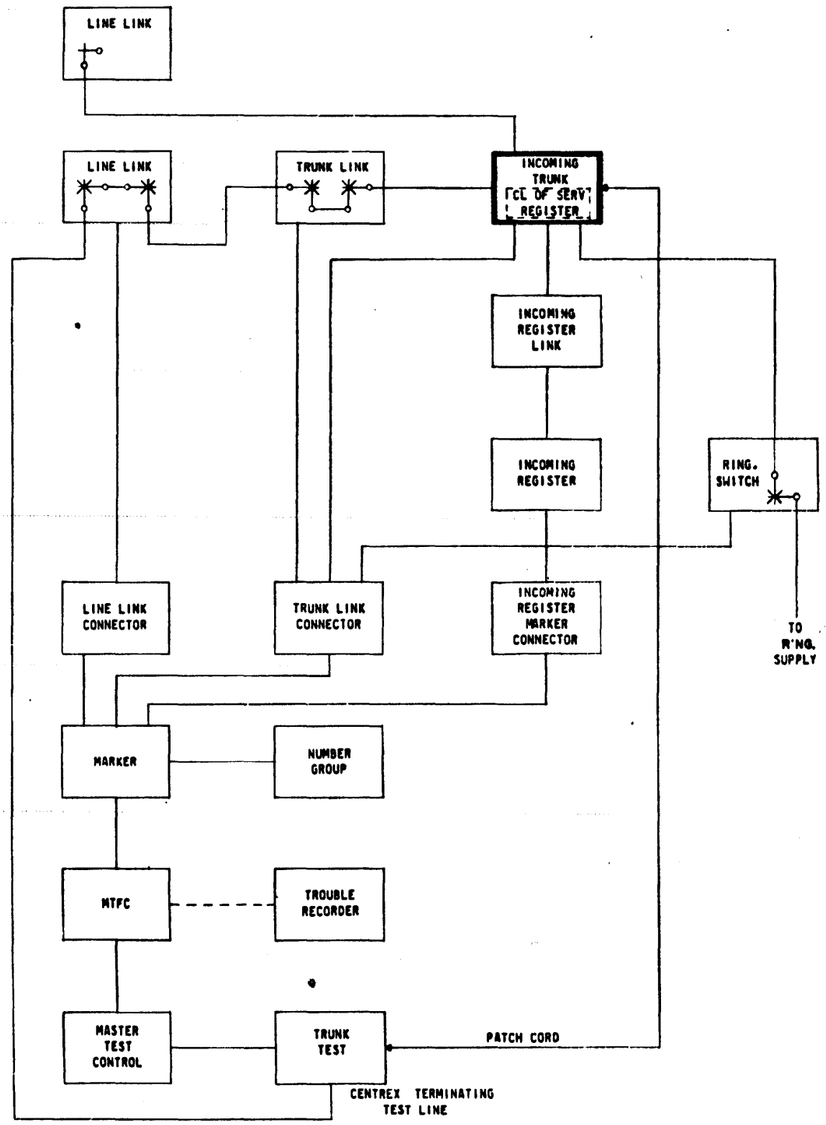
CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D84

BELL TELEPHONE LABORATORIES INCORPORATED
6S

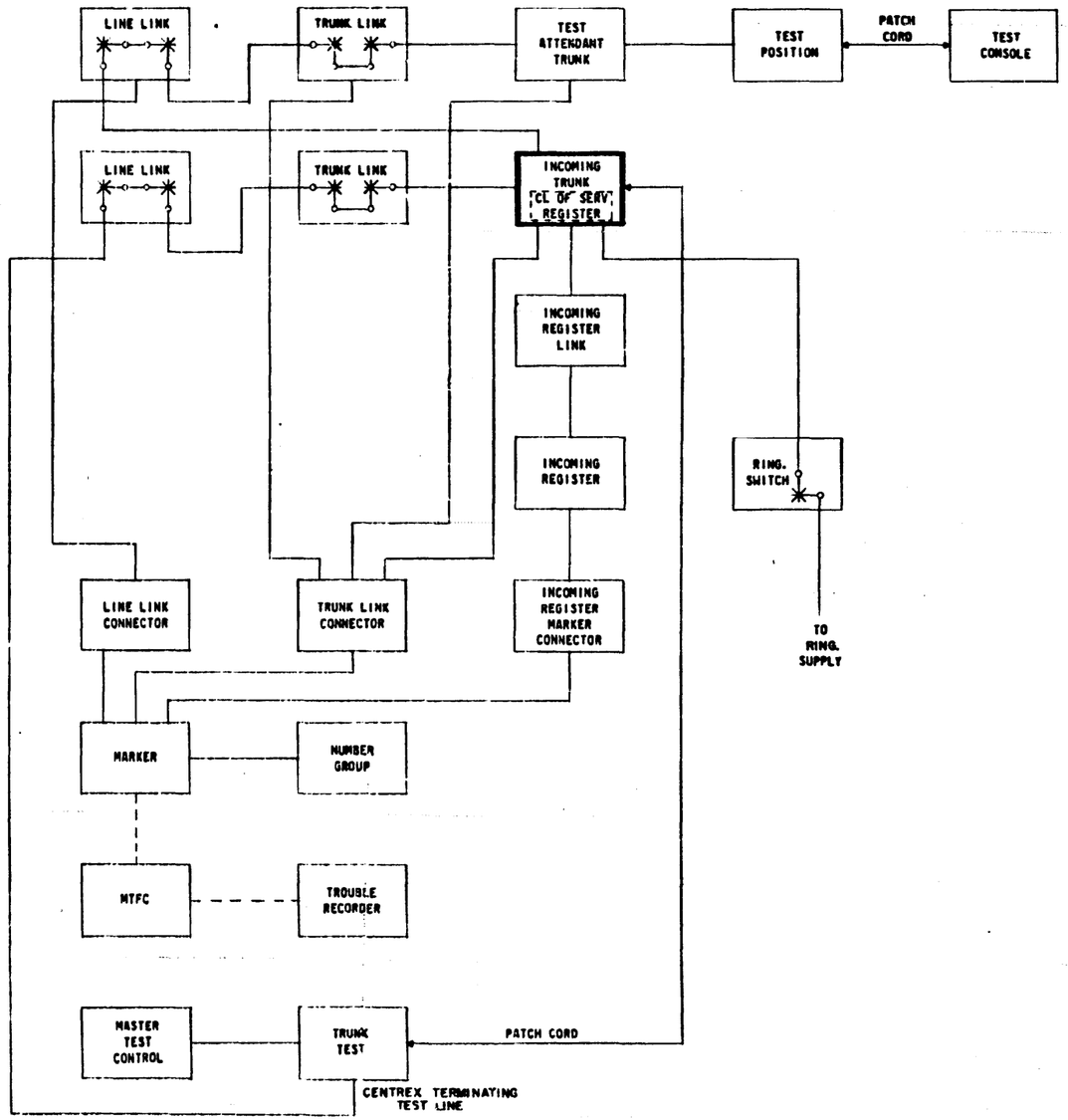
SD-25800-01-D84

FIG.272

CENTREX SERVICE
"ITHP" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST THE TRANSFER FEATURES OF AN INCOMING TRUNK)



(A)
FIRST MARKER USAGE



(B)
SECOND MARKER USAGE
(INITIATED BY MOMENTARY RELEASE OF TRUNK TEST CIRCUIT (ANS) KEY)

DRAWING ISSUE
SH D

51

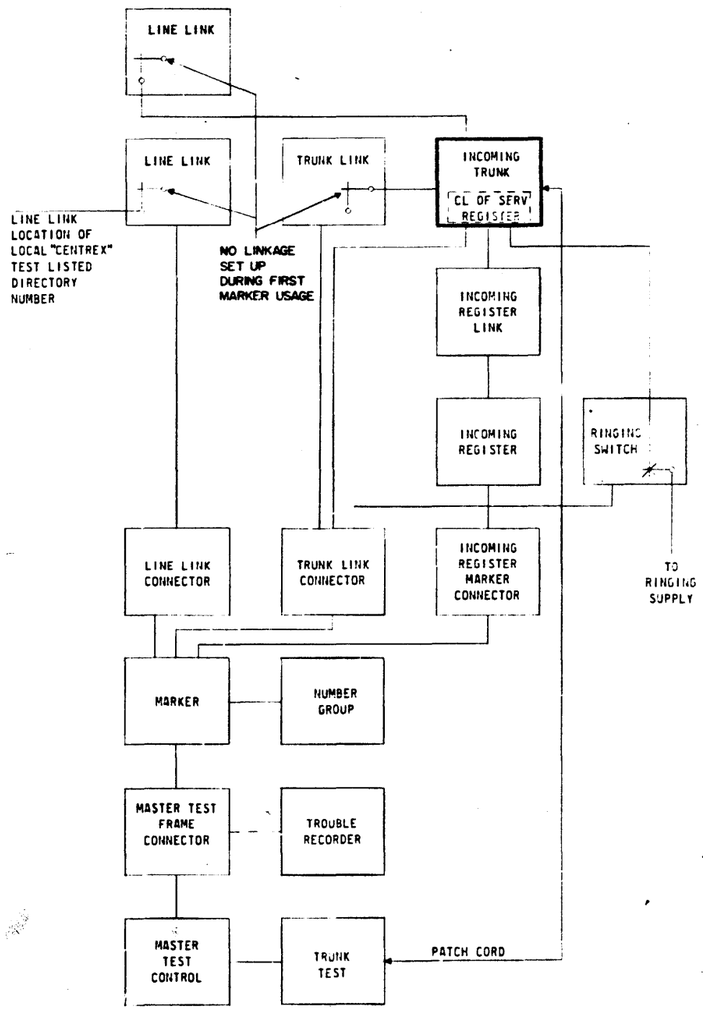
CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT
(2)
SD-25800-01-D85
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D85

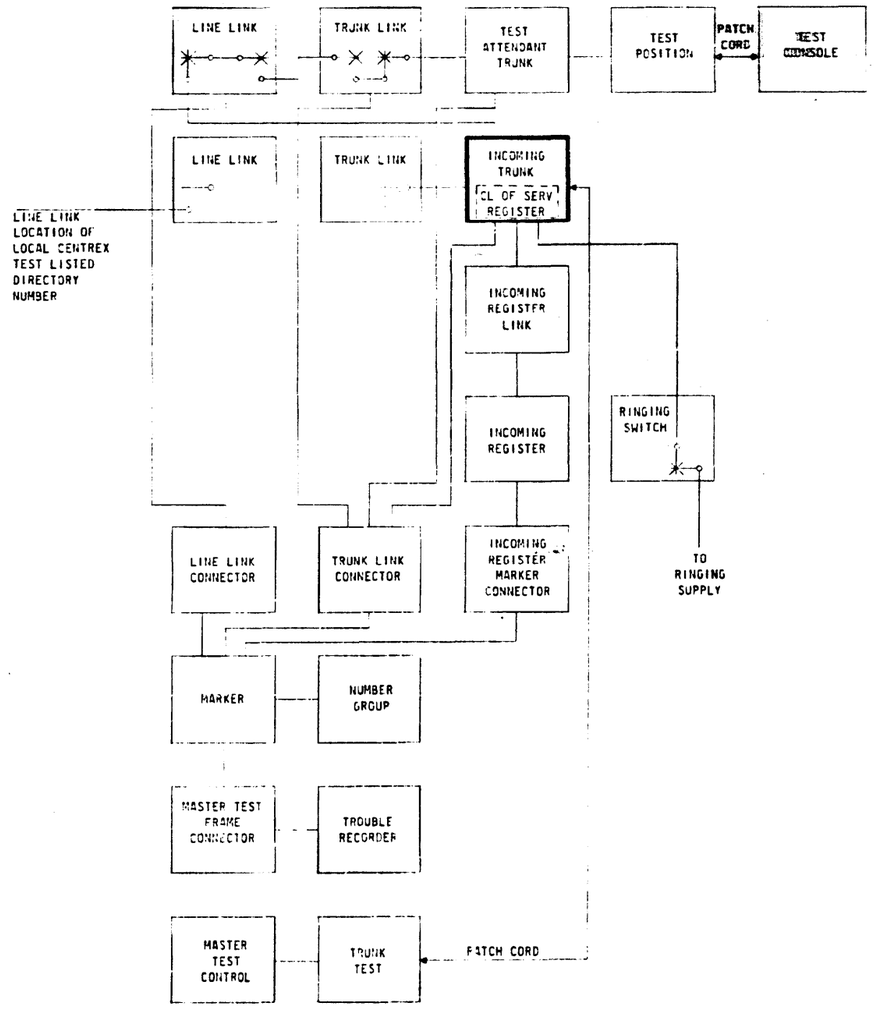
STABILO

FIG. 273

CENTREX SERVICE
"ITNP" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST THE LISTED DIRECTORY NUMBER FEATURES OF AN INCOMING TRUNK)



(A)
FIRST MARKER USAGE



(B)
SECOND MARKER USAGE

DRAWING ISSUE
51D GAV GNJ AHC

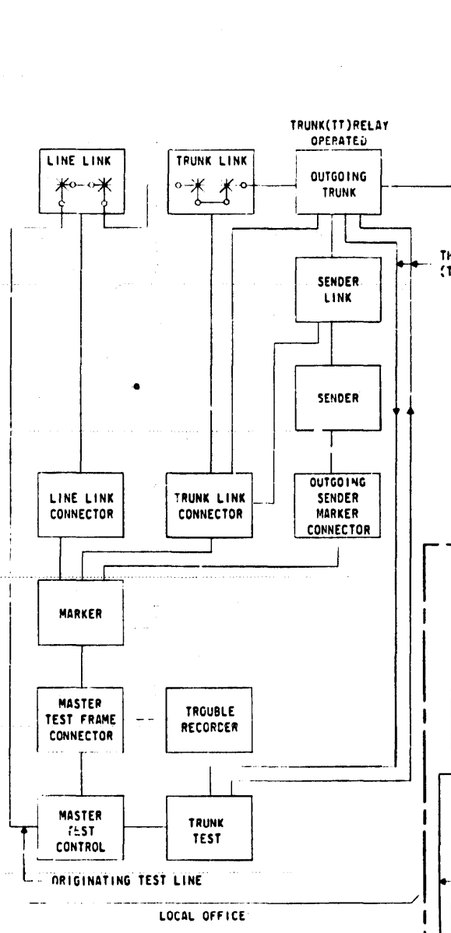
51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
6S
SD-25800-01-D86

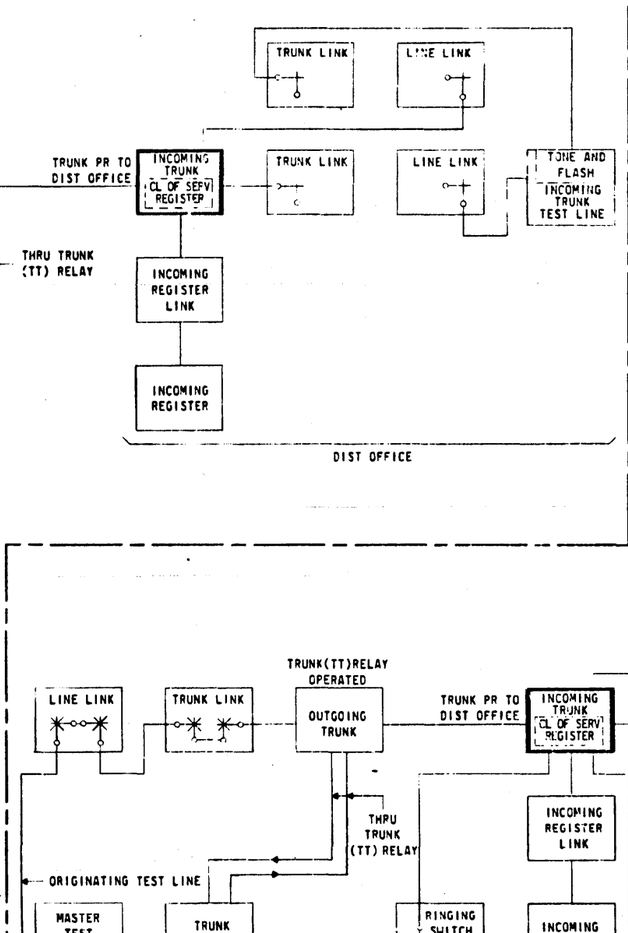
SD-25800-01-D86

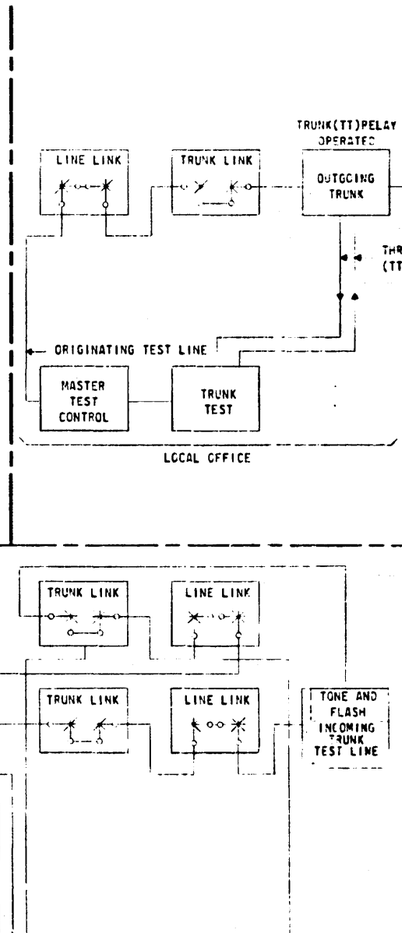
FIG. 274

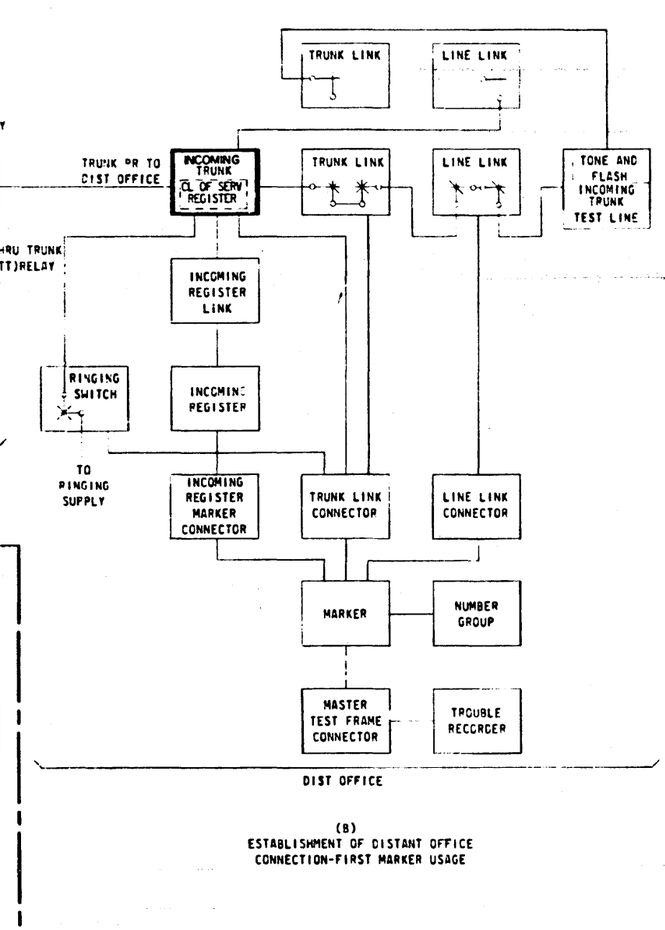
CENTREX SERVICE
"ITDO" CLASS OF TRUNK TEST
(CONNECTIONS ESTABLISHED TO TEST THE TRANSFER FEATURES OF AN INCOMING TRUNK IN A DISTANT OFFICE)



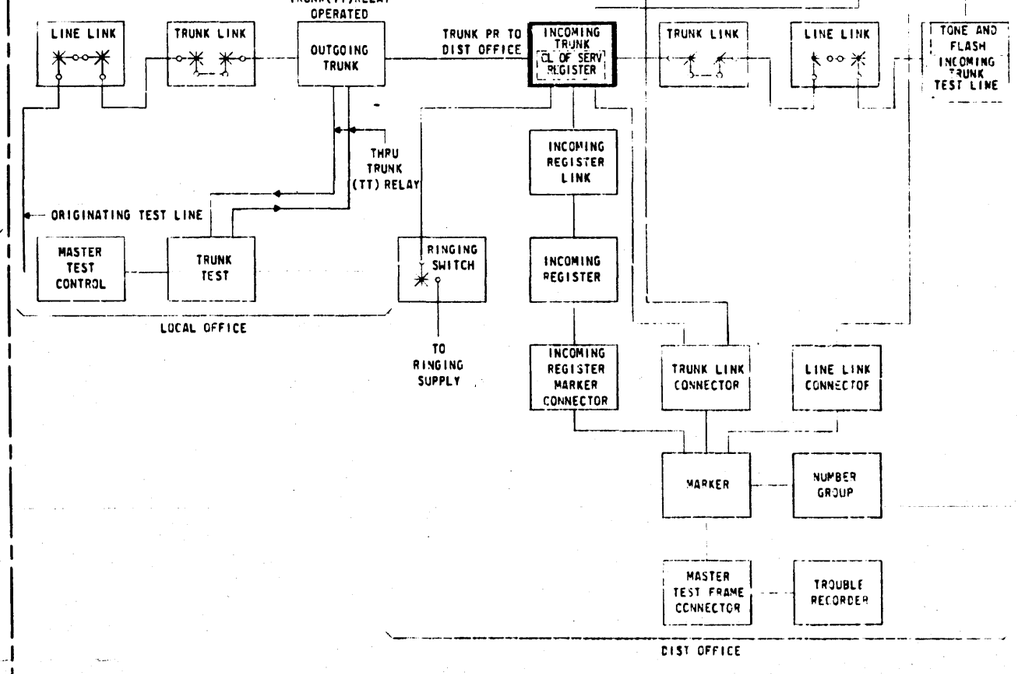
(A)
ESTABLISHMENT OF LOCAL
OFFICE CONNECTION







(B)
ESTABLISHMENT OF DISTANT OFFICE
CONNECTION-FIRST MARKER USAGE



(C)
ESTABLISHMENT OF DISTANT OFFICE CONNECTION-SECOND MARKER USAGE
AUTOMATICALLY INITIATED BY INCOMING TRUNK TEST LINE)

DRAWING ISSUE 51D

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D87
BELL TELEPHONE LABORATORIES INCORPORATED
6S

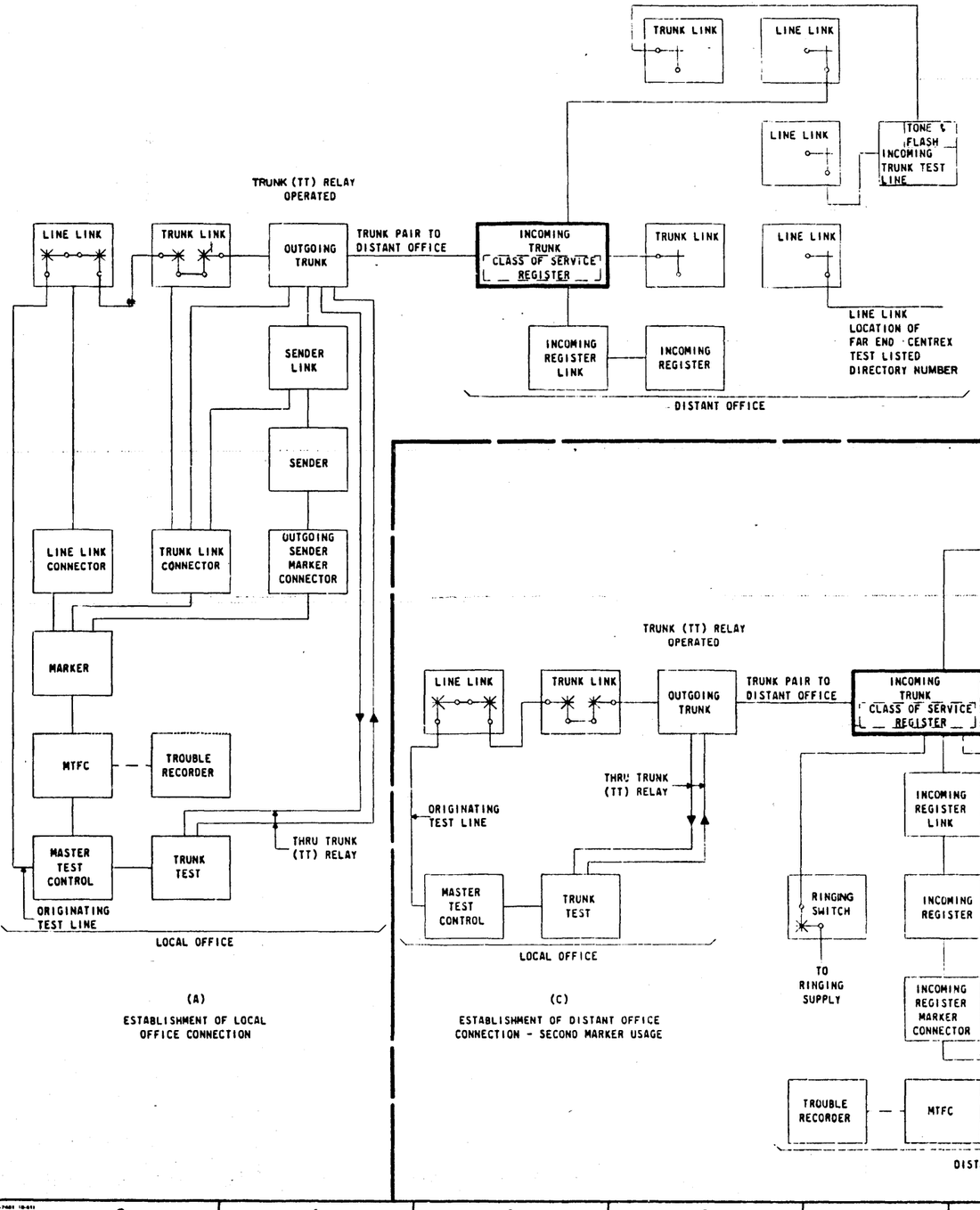
SD-25800-01-D87

FIG. 275

CENTREX SERVICE

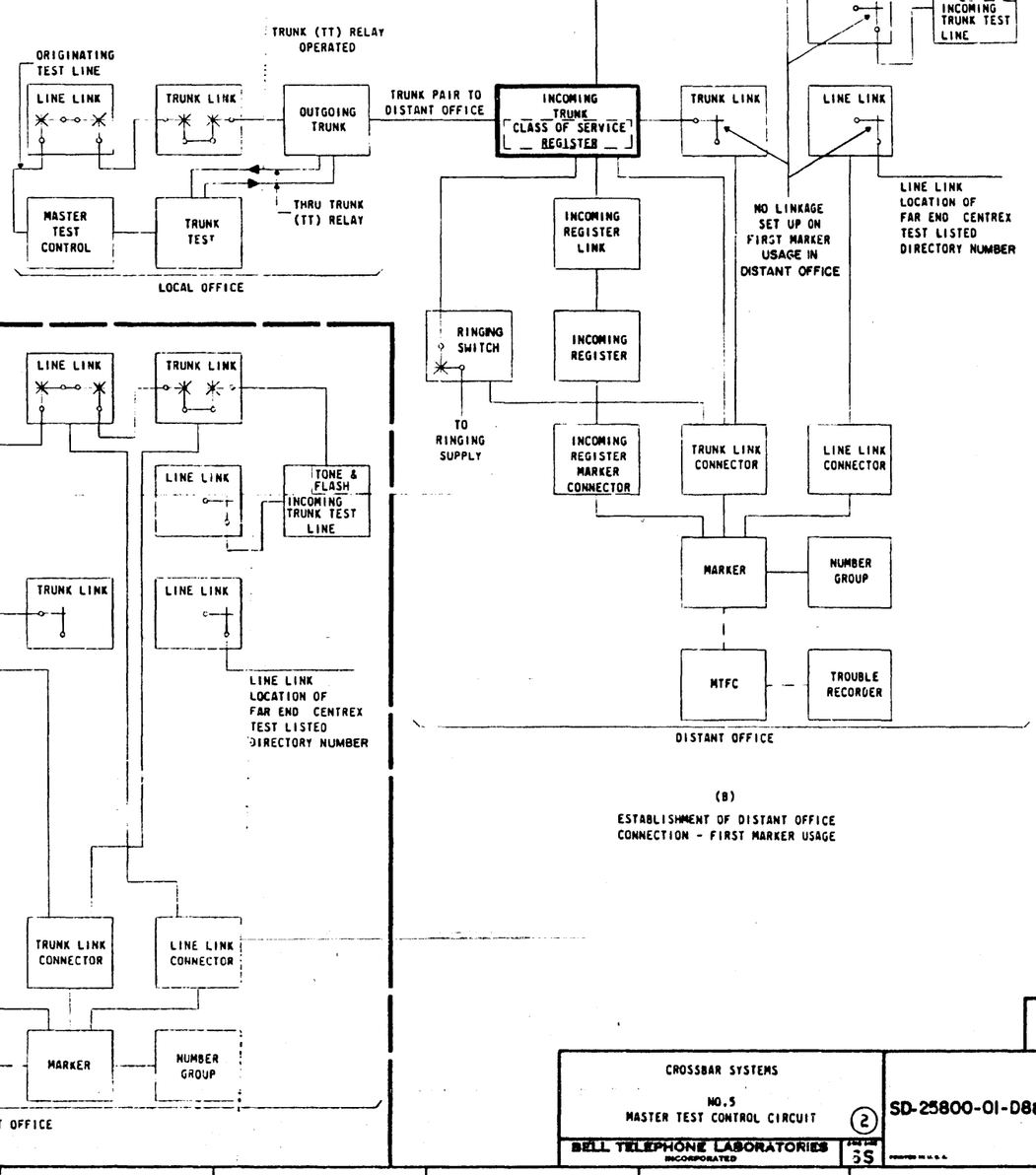
"ITDO" CLASS OF TRUNK TEST

(CONNECTIONS ESTABLISHED TO TEST LISTED DIRECTORY NUMBER FEATURES OF AN INCOMING TRUNK IN A DISTANT OFFICE)



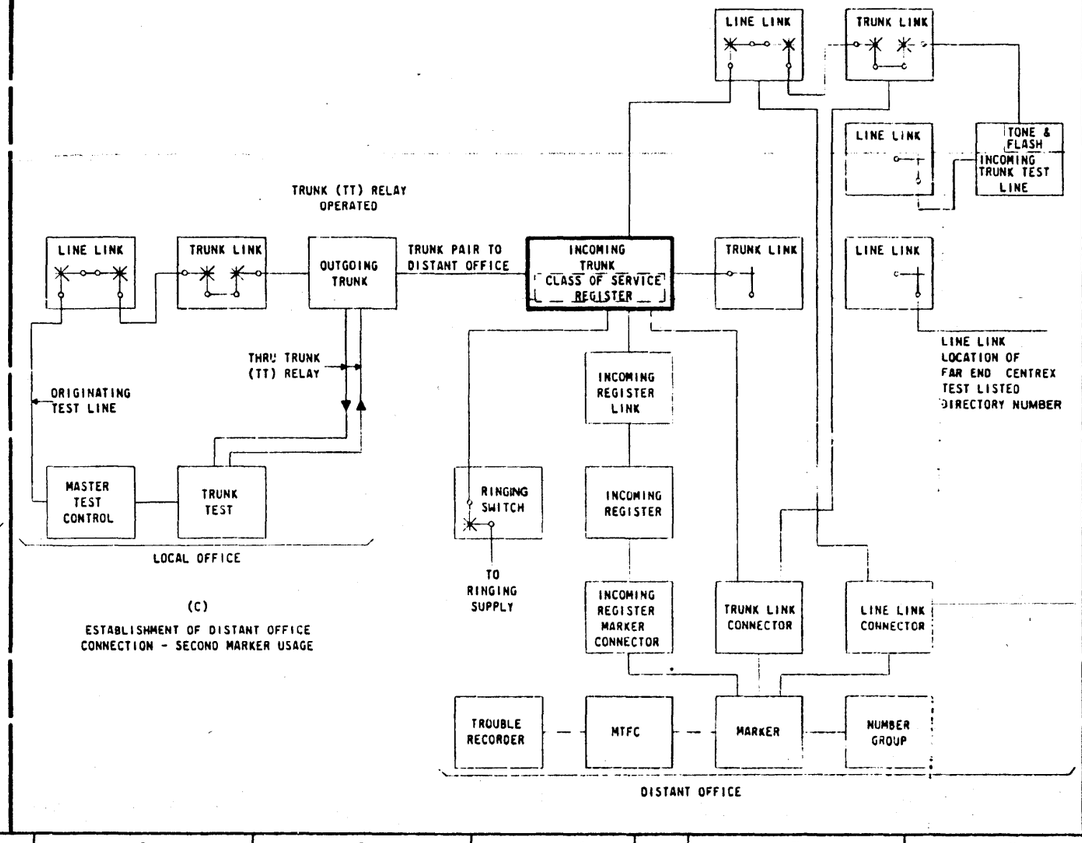
(A)

ESTABLISHMENT OF LOCAL OFFICE CONNECTION



(B)

ESTABLISHMENT OF DISTANT OFFICE CONNECTION - FIRST MARKER USAGE



(C)

ESTABLISHMENT OF DISTANT OFFICE CONNECTION - SECOND MARKER USAGE

SD-25800-01-D88

STABILO

51

CROSSBAR SYSTEMS

NO.5

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D88

BELL TELEPHONE LABORATORIES INCORPORATED

SHEET NO. 35

FIG. 276
MARKER TEST - CAMP ON WITH OR WITHOUT PRE-EMPTION

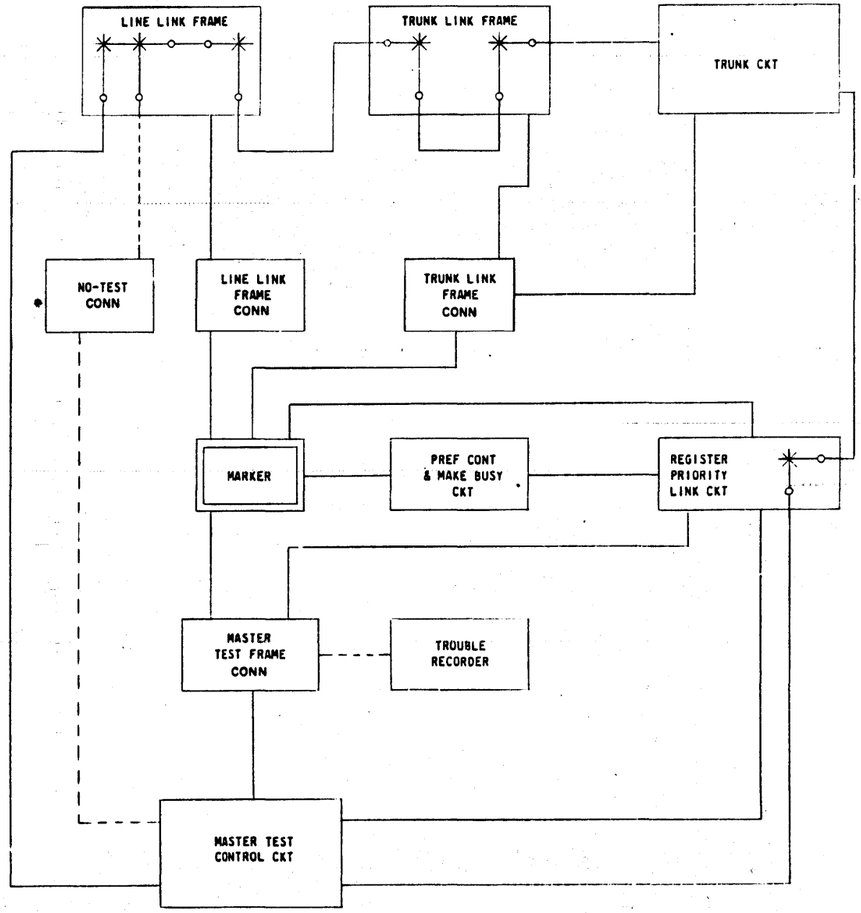
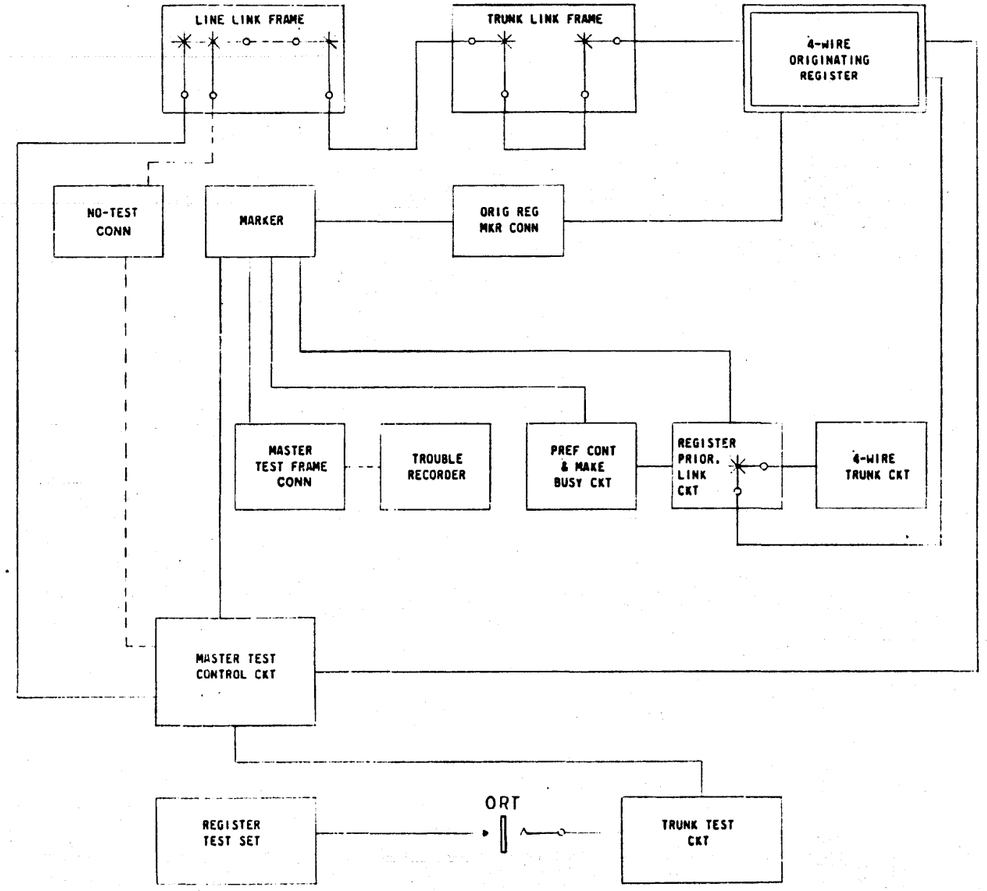


FIG. 277
OR TEST - CAMP ON WITH OR WITHOUT PRE-EMPTION



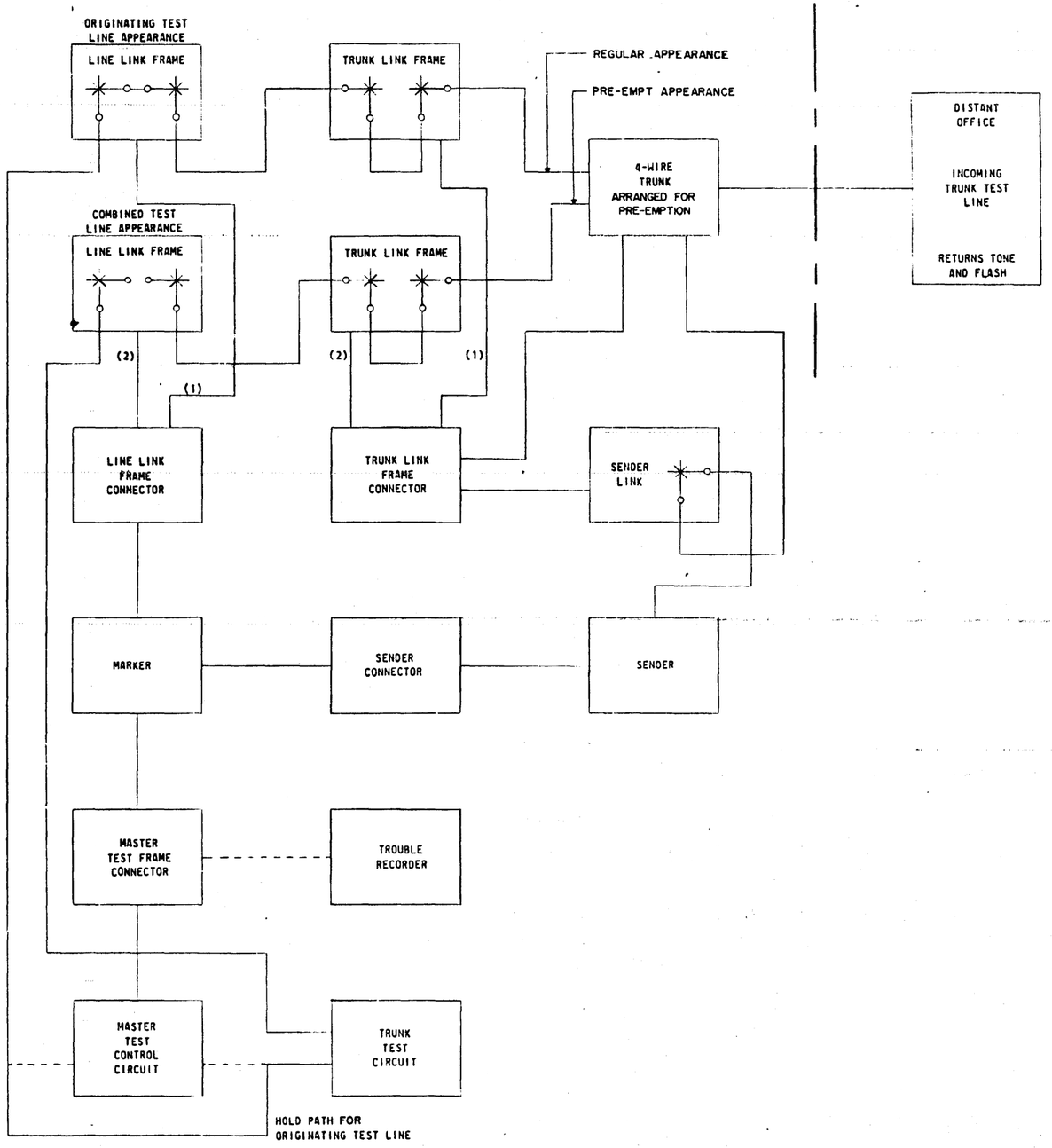
51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D89
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D89

FIG. 278

TRUNK TEST - MISC CLASS PRE-EMPTION FEATURE



SD-25800-01-D90

STABILD

DRAWING ISSUE 51D

51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D90

BELL TELEPHONE LABORATORIES INCORPORATED
65

FIG. 279

LINE LINK PULSING
"MISC" OR "OGT" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST FEATURES OF A LINE OR TRUNK ON THE LINE LINK FRAME)

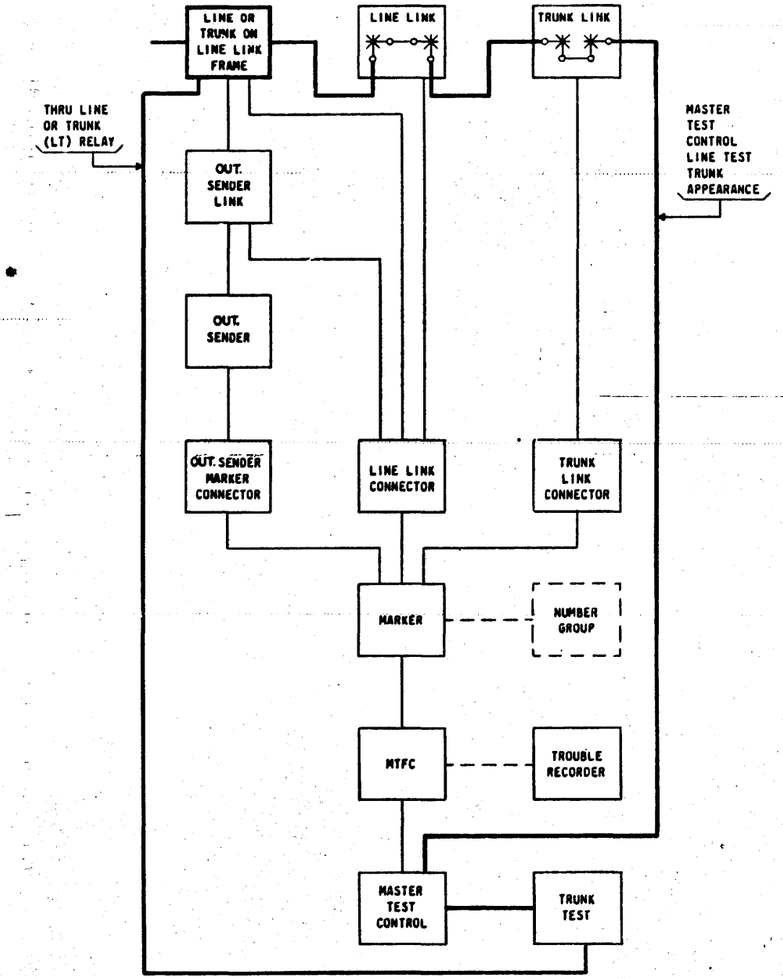
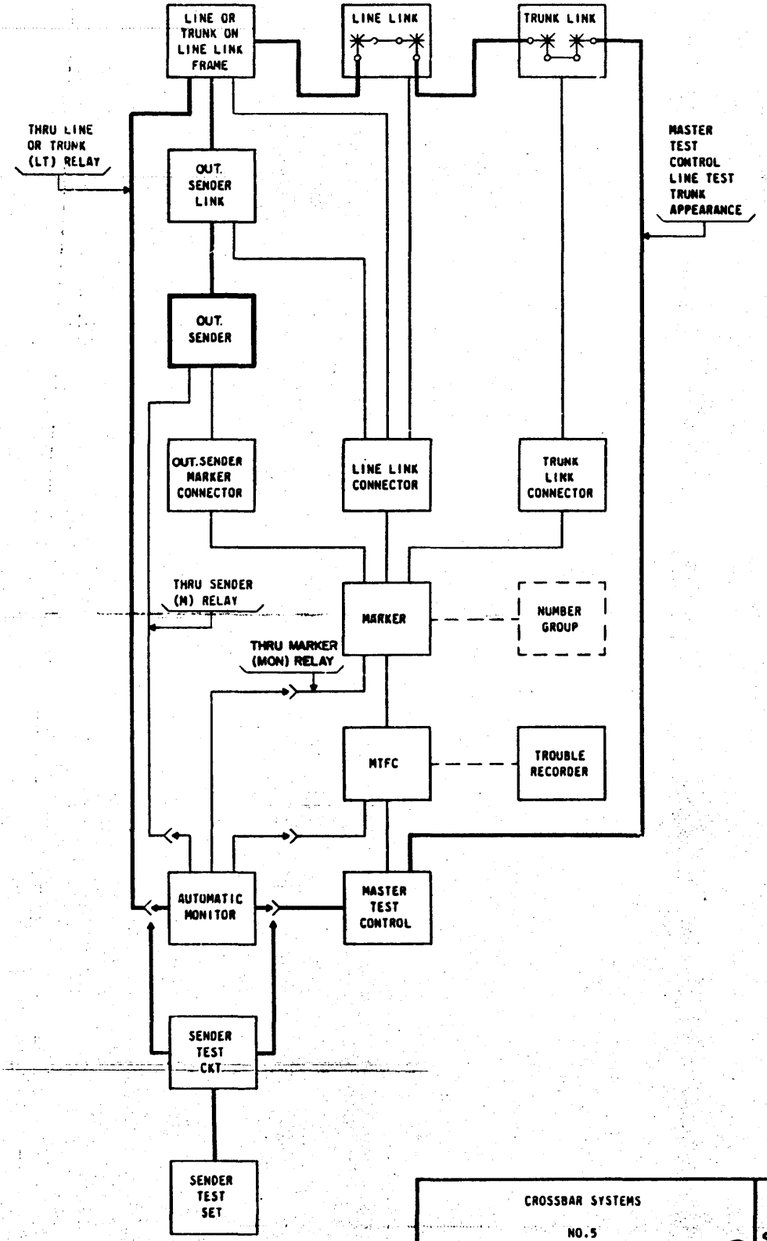


FIG. 280

LINE LINK PULSING
"SDT" OR "SDR" CLASS OF SENDER TEST
(CONNECTION ESTABLISHED TO TEST FEATURES OF AN OUT. SENDER ASSOCIATED WITH A LINE OR TRUNK ON THE LINE LINK FRAME)



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510 [illegible]

SD-25800-01-D91

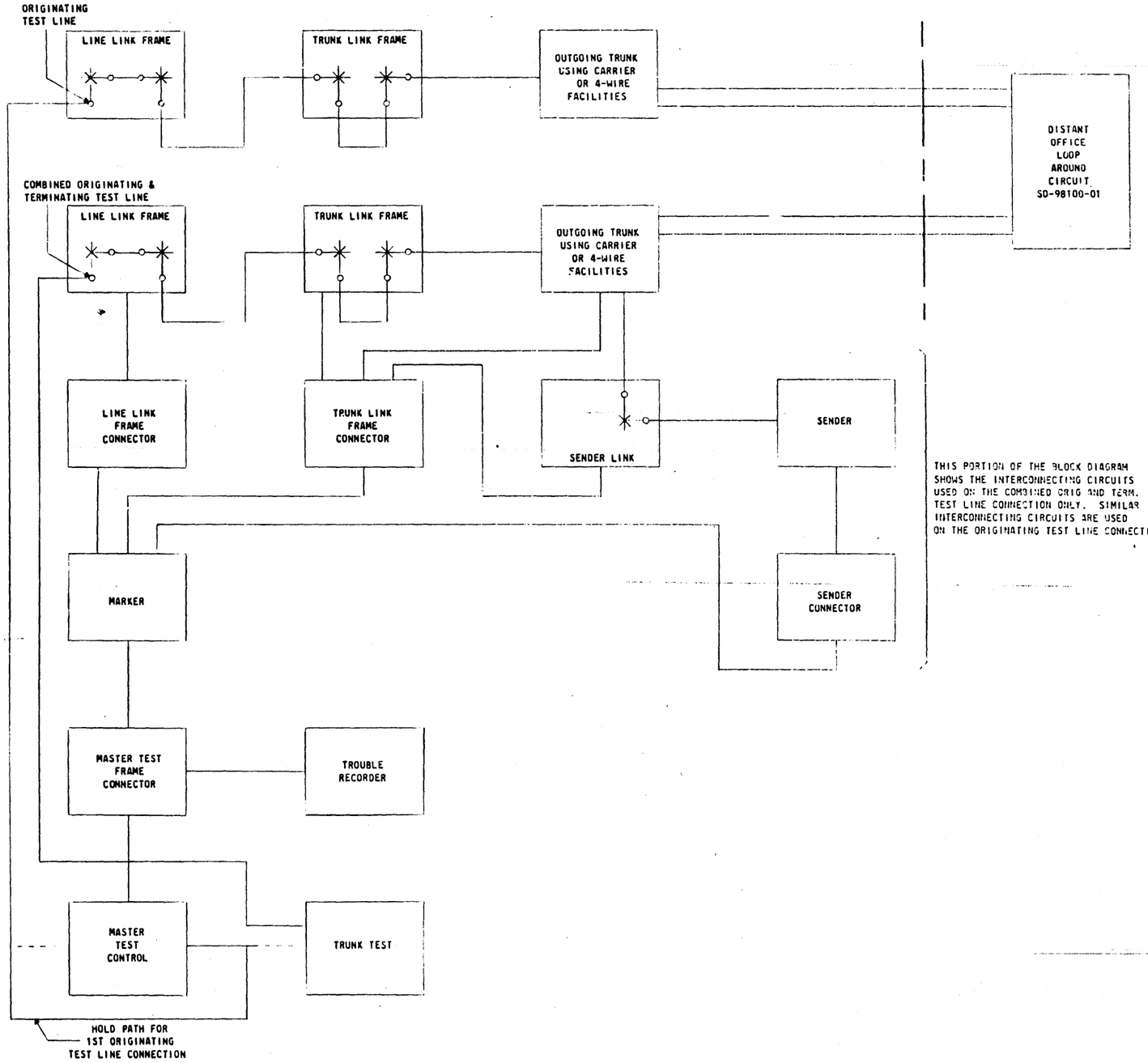
STABILO

51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D91
BELL TELEPHONE LABORATORIES INCORPORATED
6S

FIG. 281

2-WAY TRANSMISSION TESTING OF OUTGOING TRUNKS
USING CARRIER OR 4-WIRE FACILITIES
MISC CLASS OF TRUNK TEST



THIS PORTION OF THE BLOCK DIAGRAM SHOWS THE INTERCONNECTING CIRCUITS USED ON THE COMBINED ORIG AND TERM. TEST LINE CONNECTION ONLY. SIMILAR INTERCONNECTING CIRCUITS ARE USED ON THE ORIGINATING TEST LINE CONNECTION

DRAWING ISSUE
51D PNR FMN AHD

51

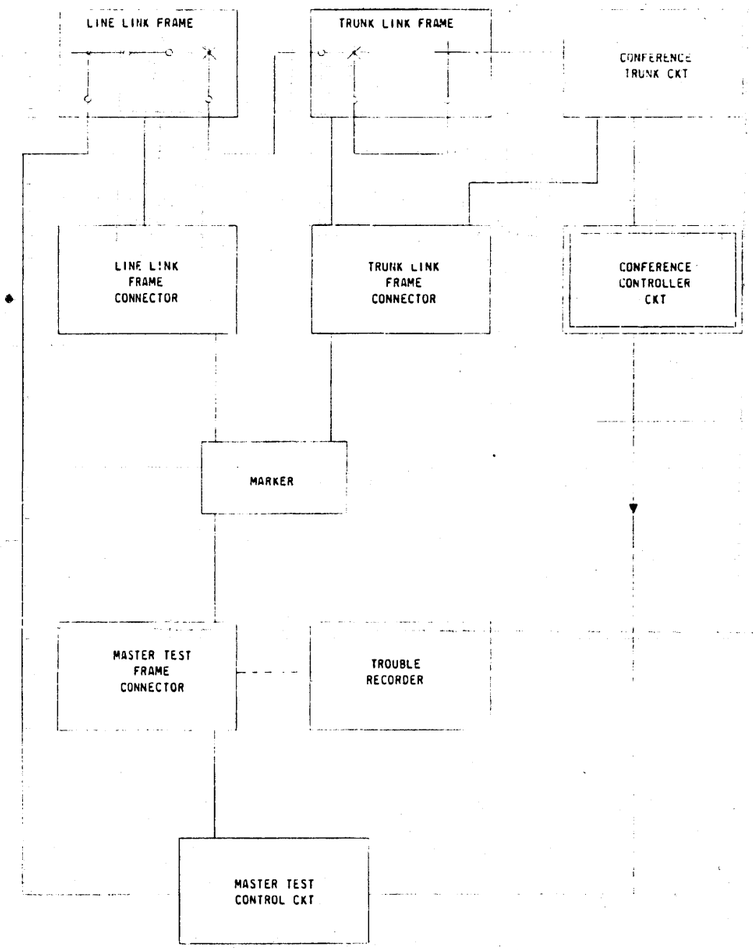
CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D92
BELL TELEPHONE LABORATORIES INCORPORATED
PLAN NO. 6S

SD-25800-01-D92

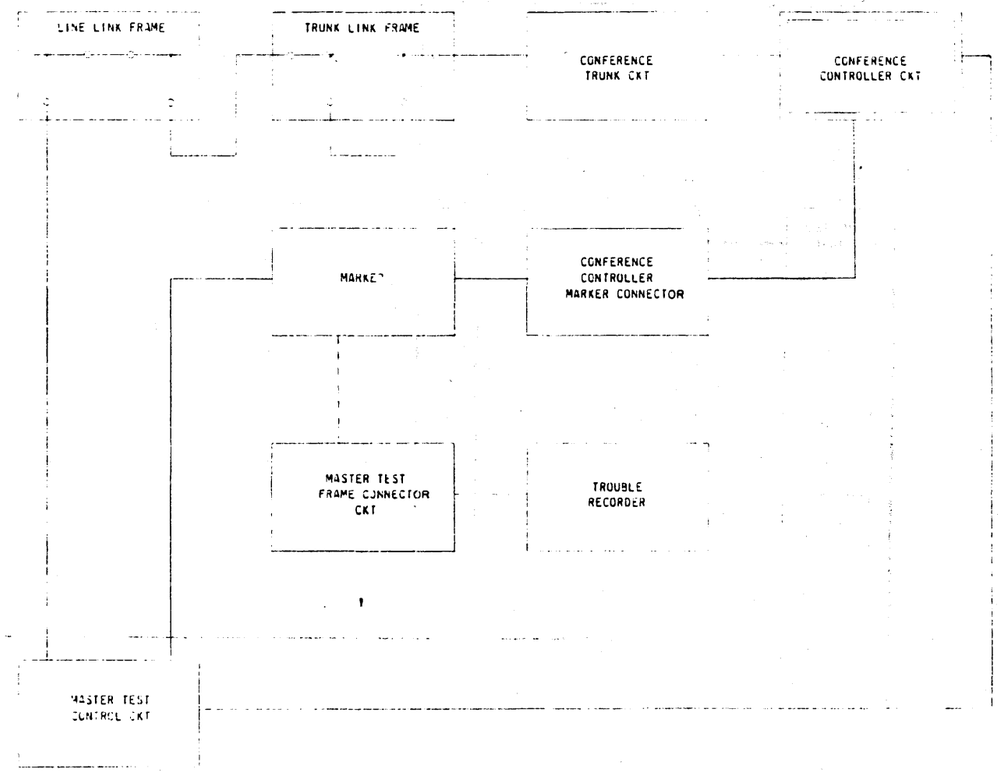
STABILO

FIG. 282
CONFERENCE CONTROLLER TEST

(A) INITIAL CONNECTION
"OGT" CLASS OF TRUNK TEST



(B) TEST CONNECTION



DRAWING ISSUE
51 D RWD

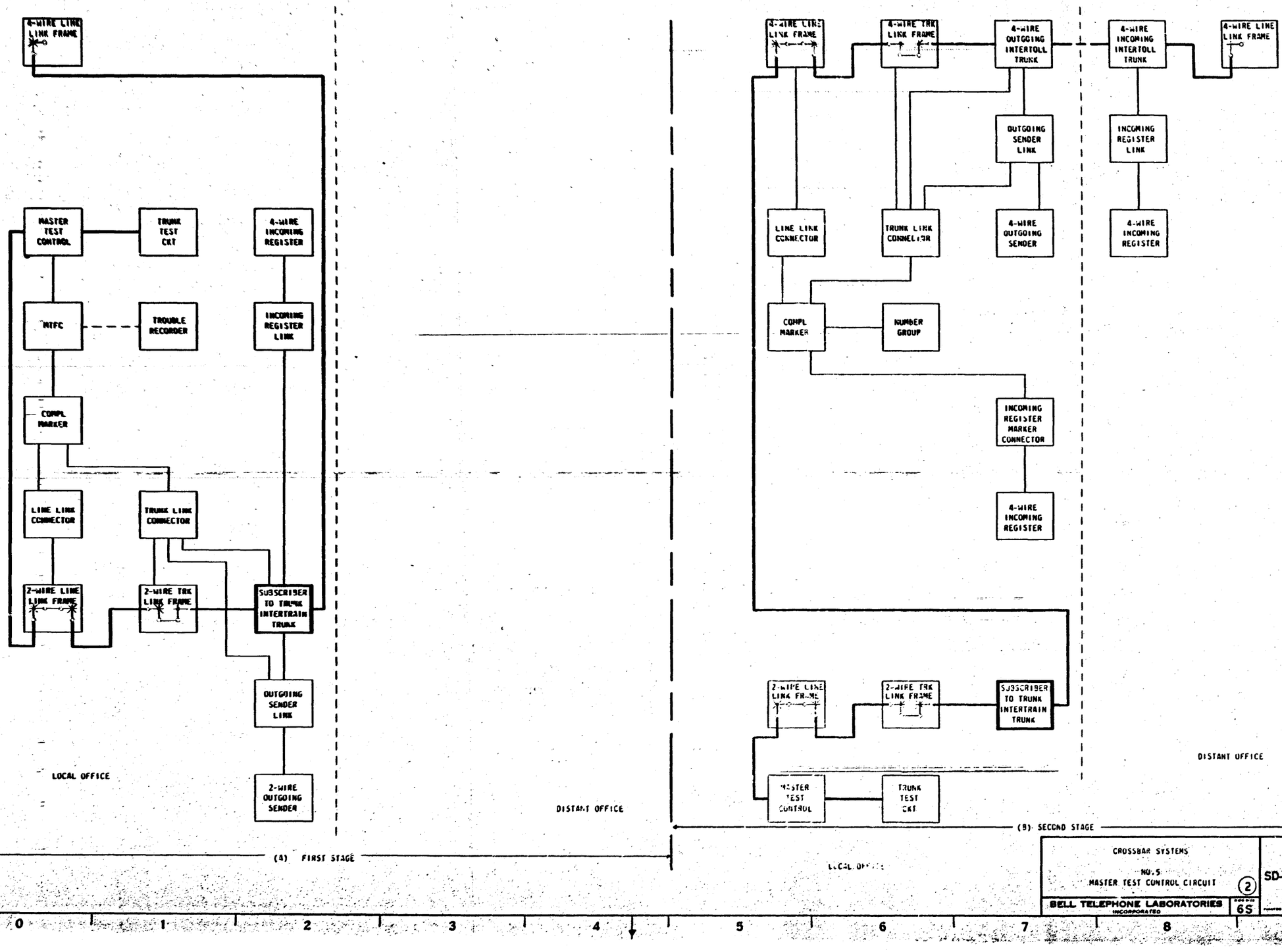
SD-25800-01-D93

51

CROSSBAR SYSTEMS
NO.5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D93
BELL TELEPHONE LABORATORIES INCORPORATED
6S

PART OF FIG. 283

"MISC" CLASS OF TRUNK TEST
CONNECTIONS ESTABLISHED TO TEST FEATURES OF A SUBSCRIBER TO TRUNK
(2-WIRE TO 4-WIRE) INTERTRAIN TRUNK



DRAWING ISSUE
51D
FOR (No 4A)

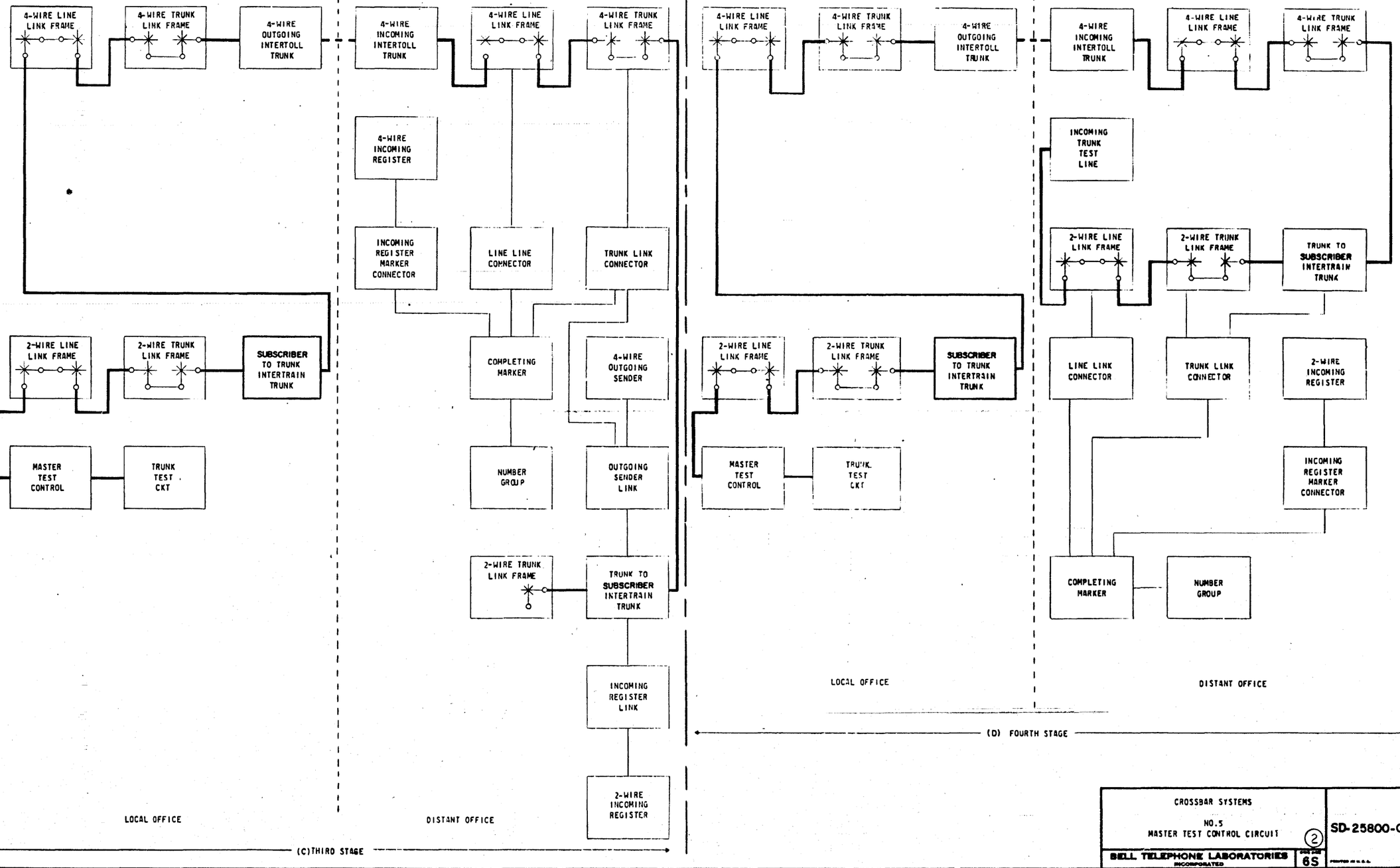
51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D94
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D94

PART OF FIG. 283

"MISC" CLASS OF TRUNK TEST



DRAWING ISSUE

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SD-25800-01-095

STABILO

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-095

BELL TELEPHONE LABORATORIES INCORPORATED
SHEET 6S

FIG. 284

"OGT" CLASS OF TRUNK TEST
CONNECTION ESTABLISHED TO TEST FEATURES OF A SUBSCRIBER TO TRUNK
(2-WIRE TO 4-WIRE) INTERTRAIN TRUNK

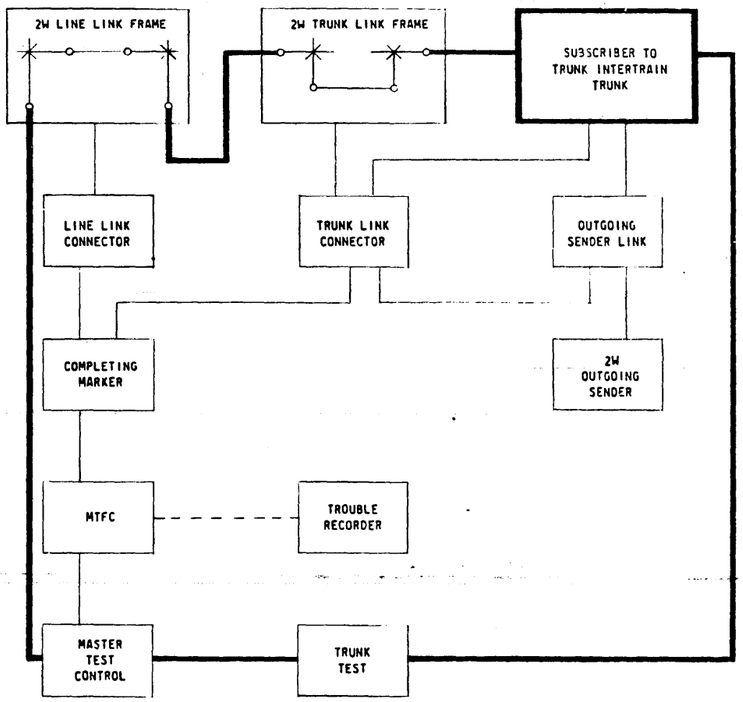
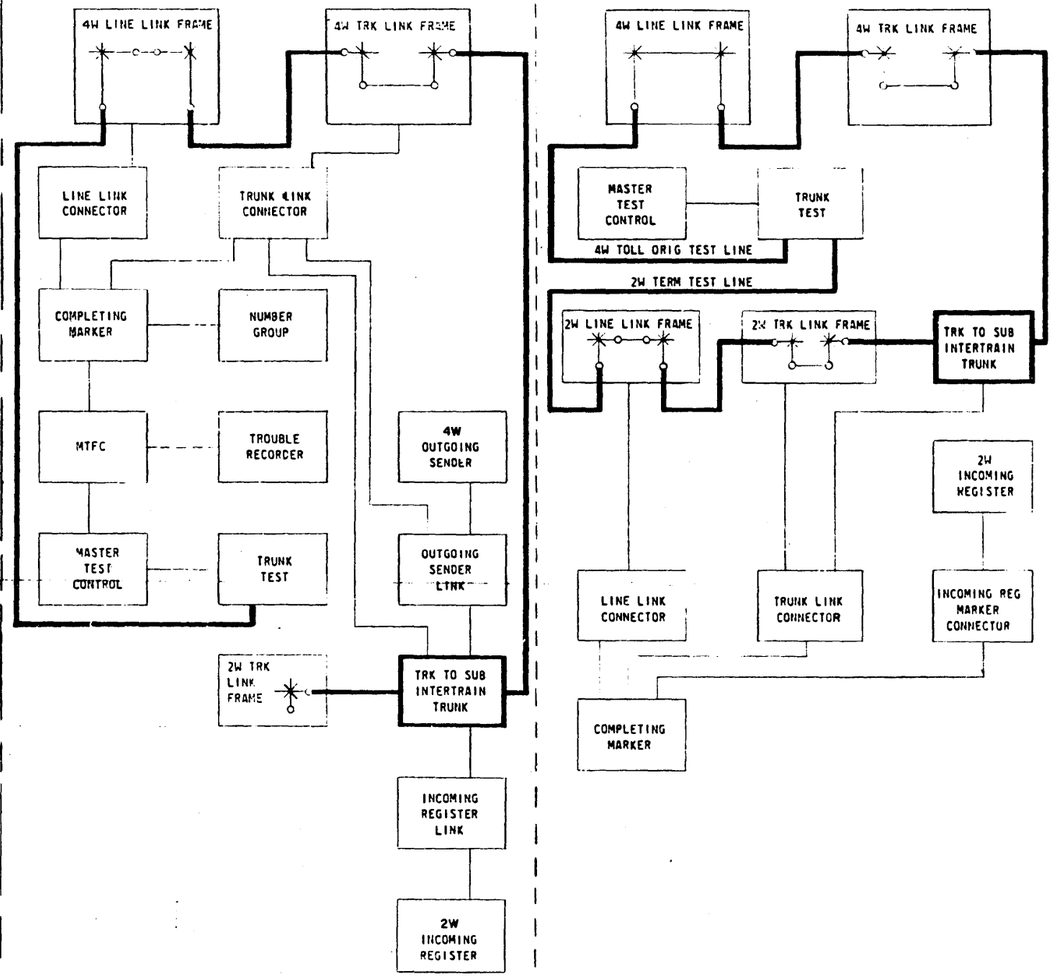


FIG. 285

"MISC" CLASS OF TRUNK TEST
CONNECTION ESTABLISHED TO TEST FEATURES OF A TRUNK TO SUBSCRIBER
(4-WIRE TO-2 WIRE) INTERTRAIN TRUNK



DRAWING INDEX
510 FIG. 284 AND 285

51

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-096

BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

SD-25800-01-096

STABILO

FIG. 286

DIAL TRANSFER
"DT" CLASS OF MARKER TEST
(SIMULATE CONNECTION OF A TRANSFERRED INCOMING OR INTRAOFFICE TRUNK TO A TRANSFER TRUNK)

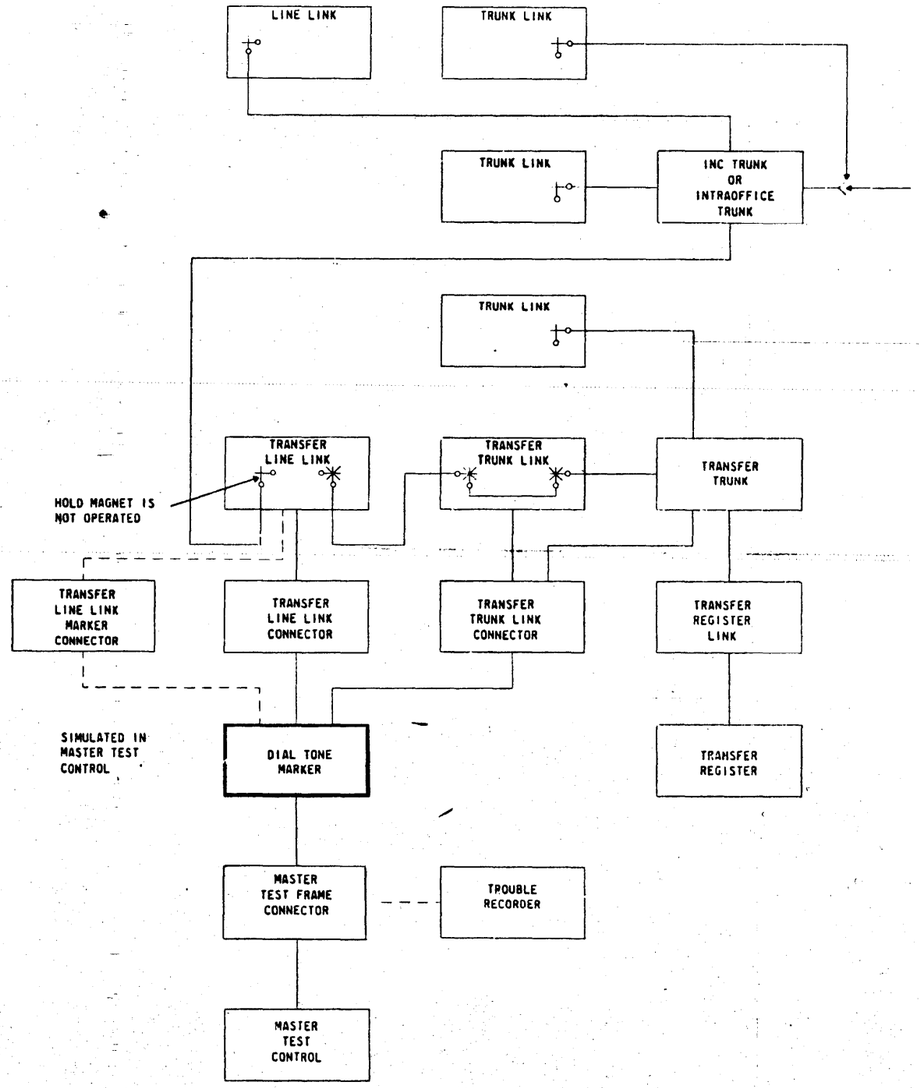
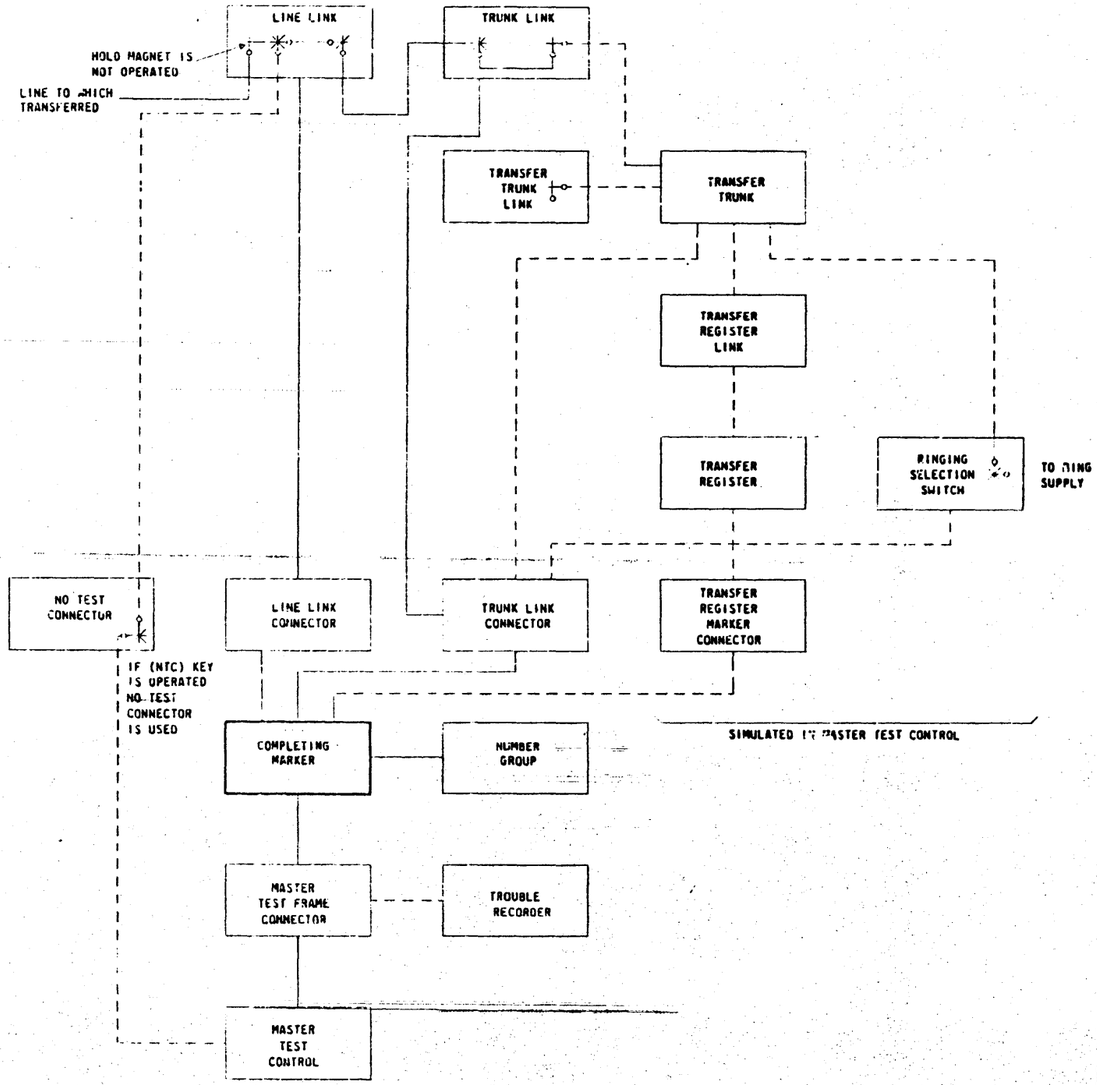


FIG. 287

DIAL TRANSFER-PHASE I & II
"INC" CLASS OF MARKER TEST
(SIMULATE CONNECTION FROM A TRANSFER TRUNK TO A LINE ON A TRANSFERRED CALL)



DRAWING ISSUE 530 JRI AMU And

53

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D97
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

STABILOKE

SD-25800-01-D97

FIG. 288

DIAL TRANSFER - PHASE I & II
"INC" CLASS OF MARKER TEST
(SIMULATE CONNECTION OF AN INCOMING OR INTRAOFFICE TRUNK TO A LINE ON A RETRANSFERRED CALL)

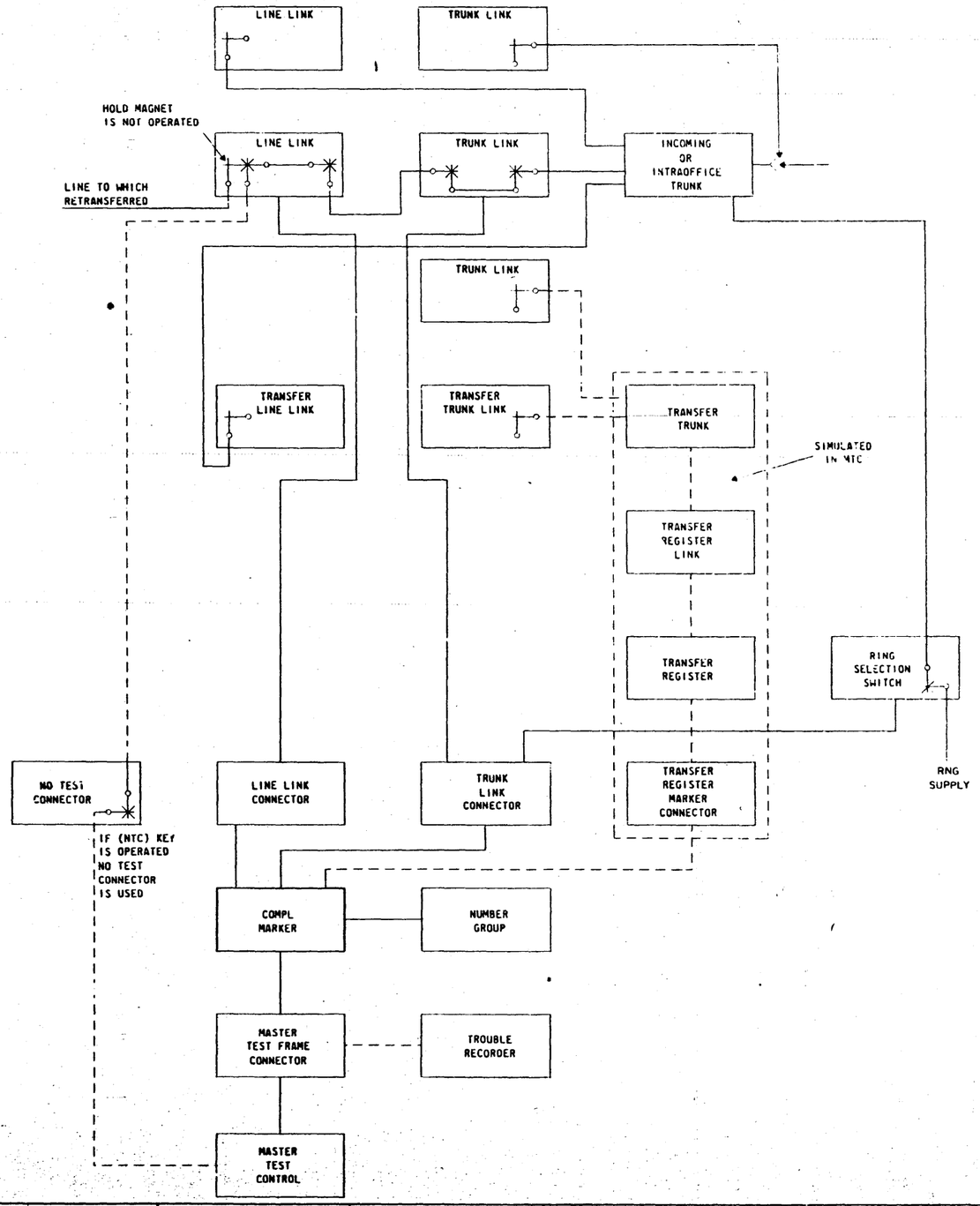
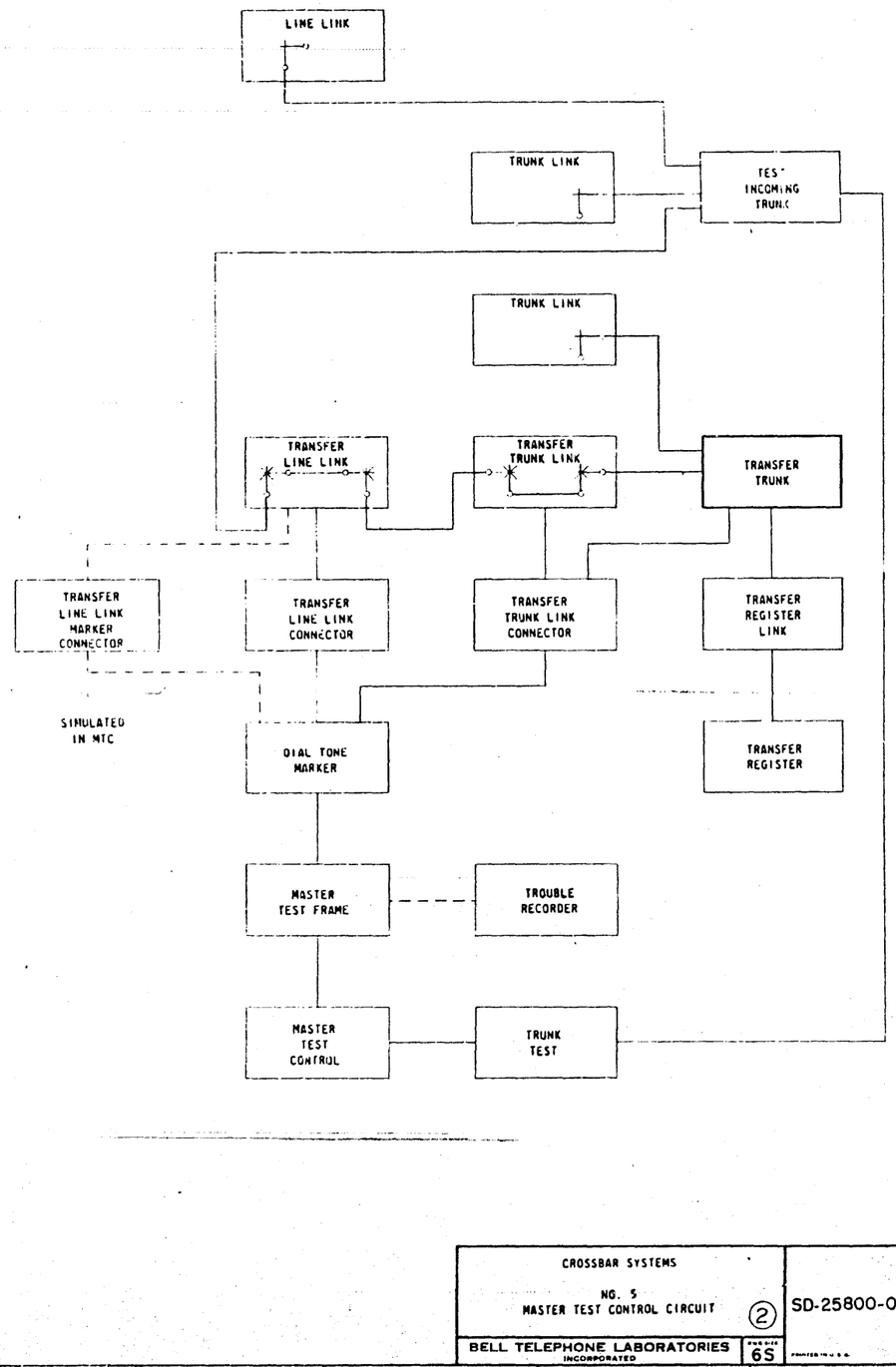


FIG. 289

DIAL TRANSFER - PHASE I & II
"OR" CLASS OF TEST
(CONNECTION ESTABLISHED TO TEST THE FEATURES OF A TRANSFER TRUNK)



DRAWING ISSUE
530 CL AM

53

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D98

BELL TELEPHONE LABORATORIES INCORPORATED
6S

STABILO

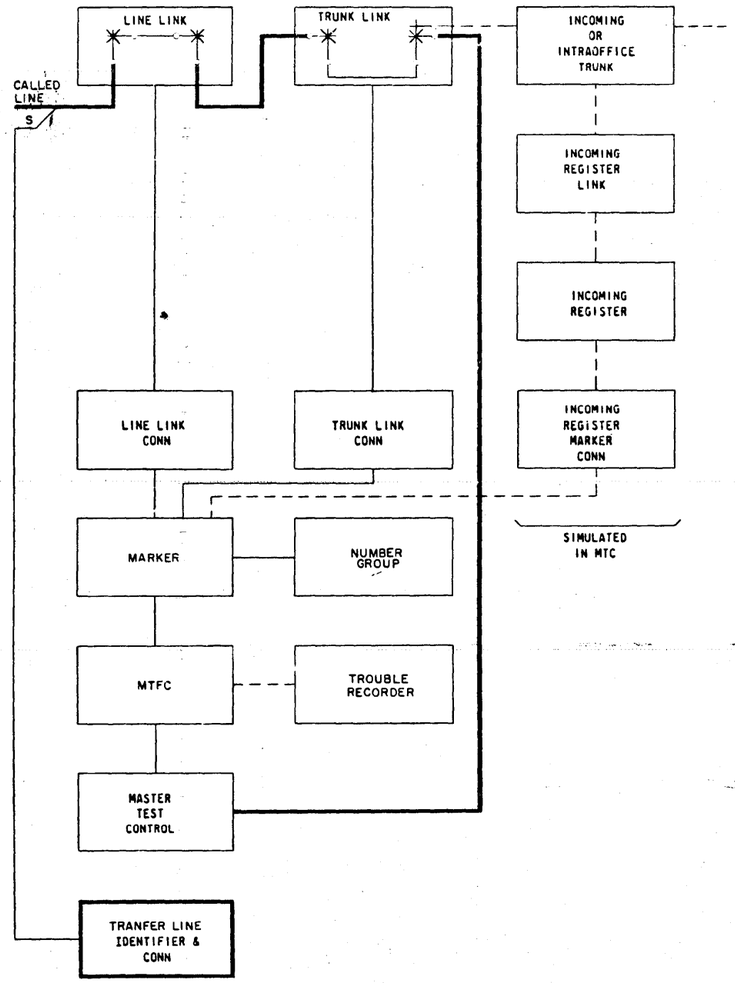
SD-25800-01-D98

FIG. 290

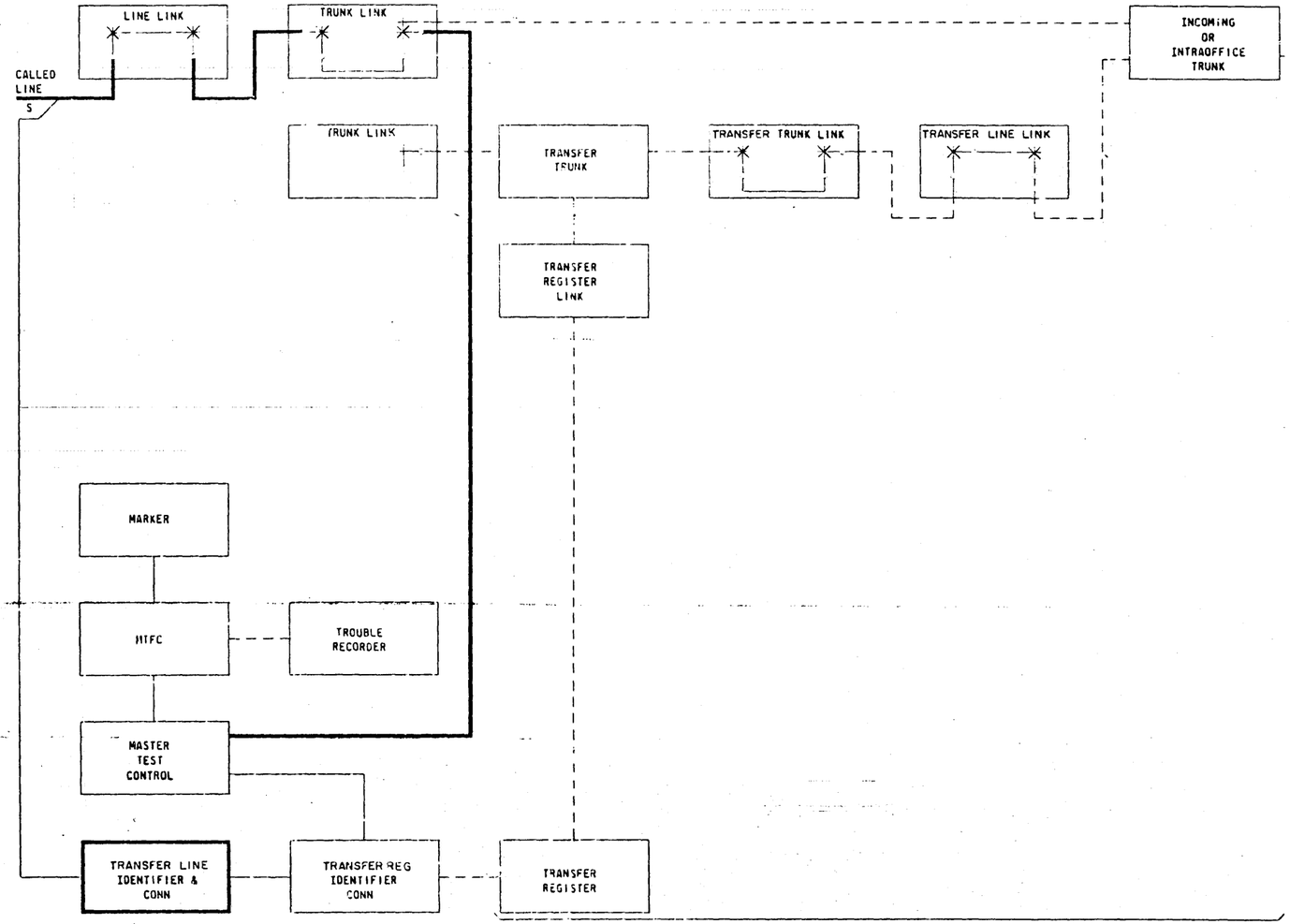
DIAL TRANSFER-PHASE III
"LT" CLASS OF TEST
(CONNECTION ESTABLISHED TO CHECK THE LINE IDENTIFICATION OF A CENTREX LINE)

DRAWING ISSUE
530 EM ENG AM

(A) ESTABLISHING CONNECTION TO LINE



(B) IDENTIFICATION STAGE



53

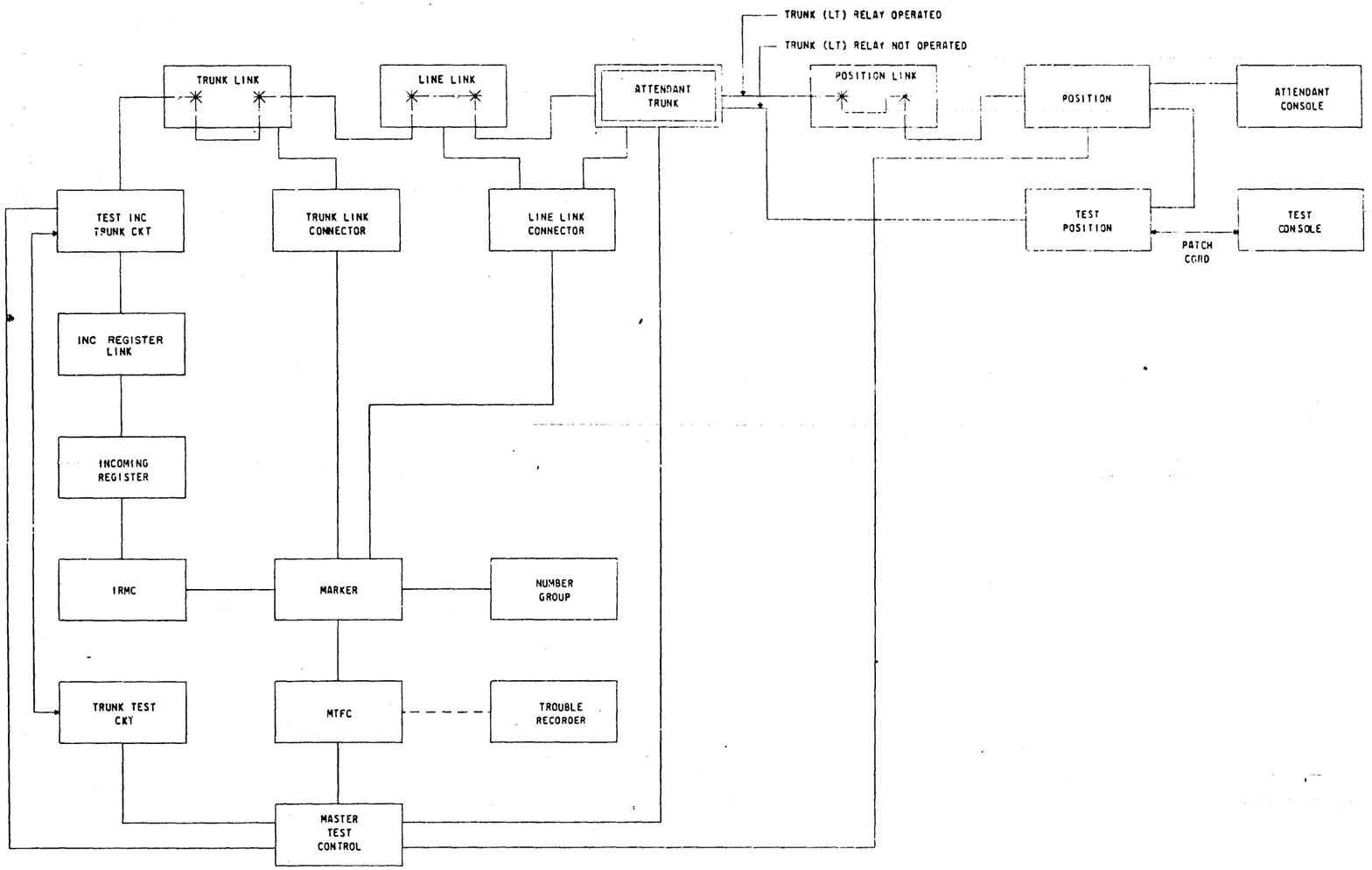
CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D99
BELL TELEPHONE LABORATORIES INCORPORATED
SECTION 6S

STABILO K+E

SD-25800-01-D99

FIG. 291

CENTREX SERVICE - PHASE III
"ITNP-LLAT" CLASS OF TRUNK TEST



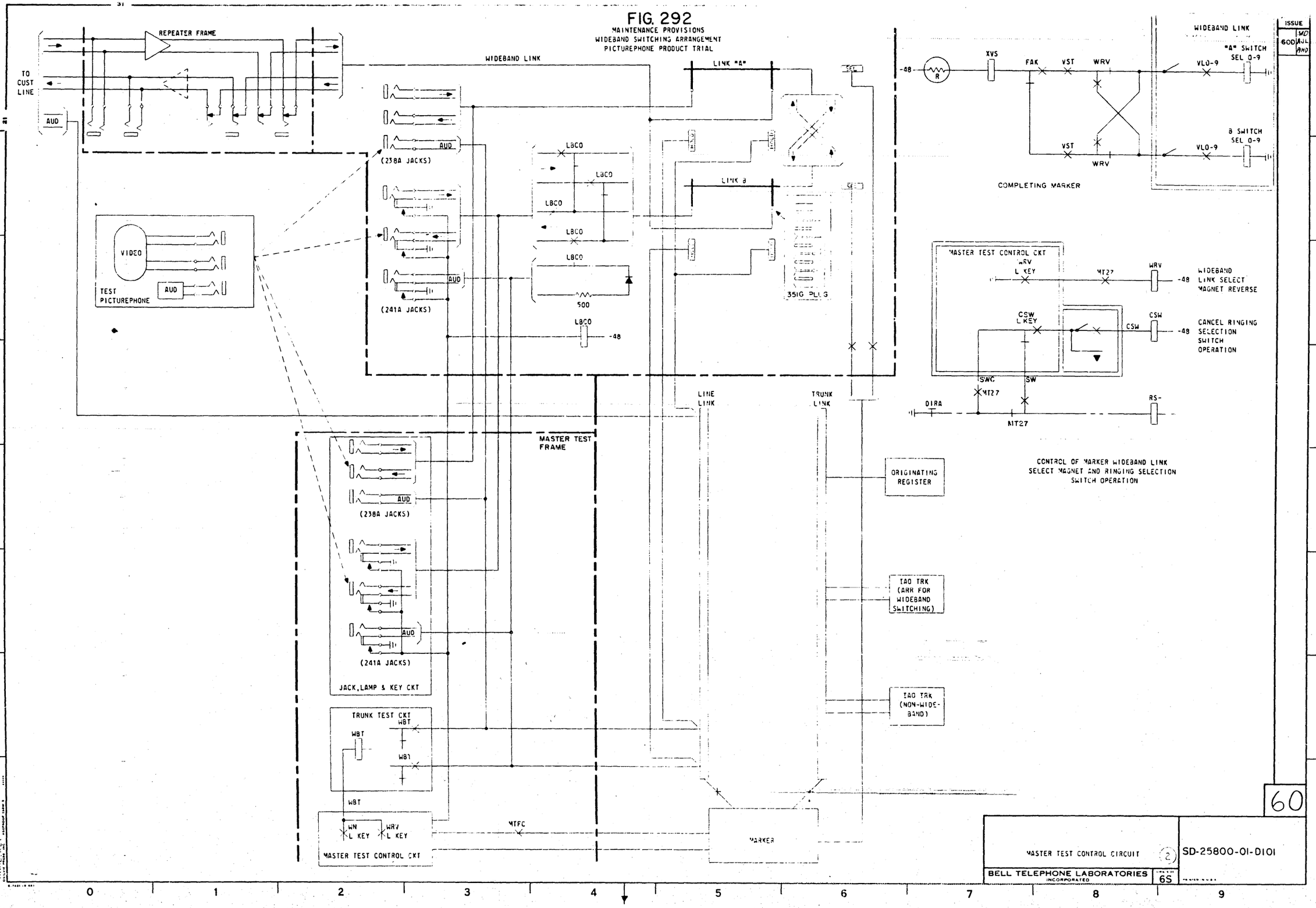
DRAWING ISSUE
53D

53

CROSSBAR SYSTEMS
NO. 5
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-D100
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-D100
STABILO

FIG. 292
MAINTENANCE PROVISIONS
WIDEBAND SWITCHING ARRANGEMENT
PICTUREPHONE PRODUCT TRIAL



ISSUE	
600	WD AJL AHD

60

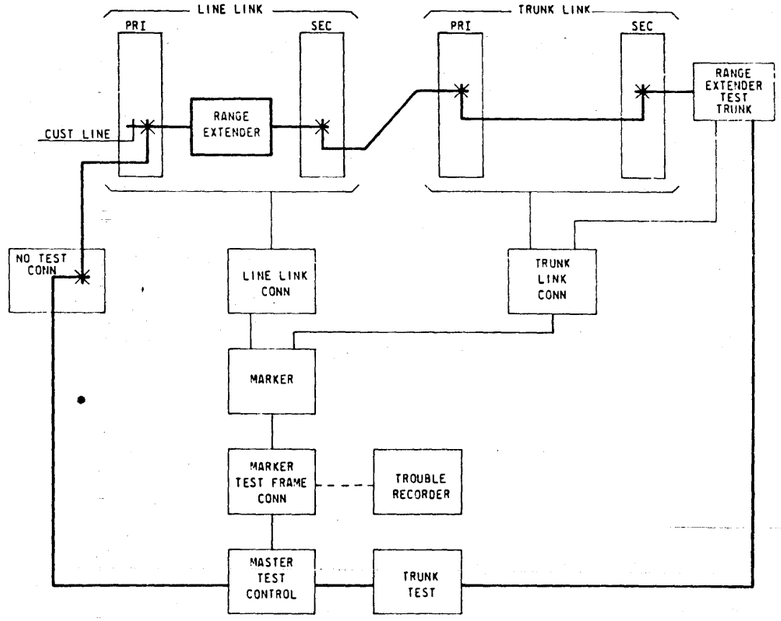
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-0101

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-0101

FIG. 293

"MISC" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST RANGE EXTENSION FEATURES)



ISSUE 62D NLF 3-4V 4-4D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D102

BELL TELEPHONE LABORATORIES INCORPORATED 6S

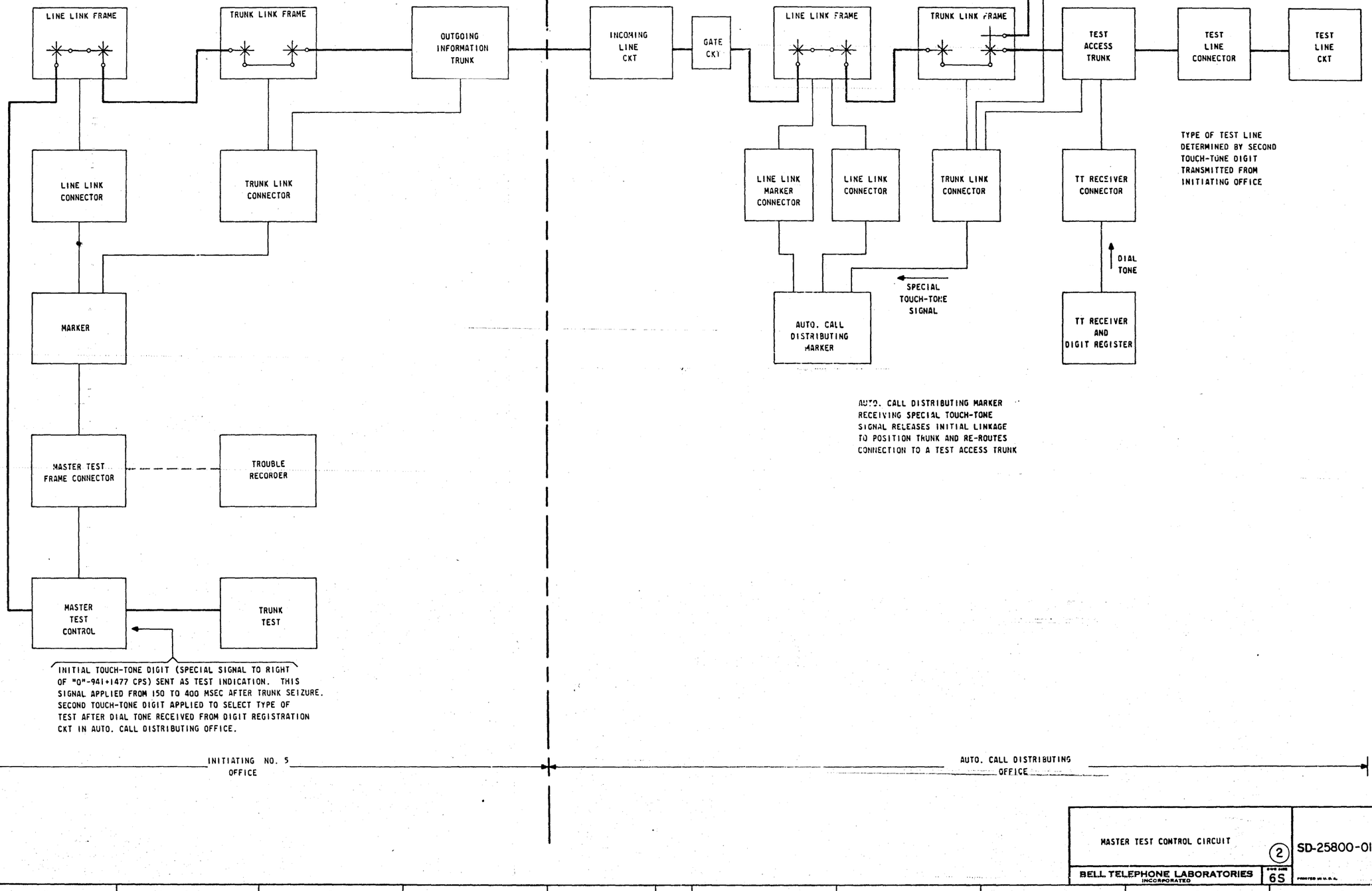
62

SD-25800-01-D102

HIGGINS 4465

FIG. 294

"MISC" OR "ITDO" CLASS OF TRUNK TEST
(CONNECTION ESTABLISHED TO TEST OUTGOING INFORMATION TRUNKS TO AND ASSOCIATED INCOMING LINE CIRCUITS IN AUTO. CALL DISTRIBUTING OFFICES)



DRAWING ISSUE 650 10-71 I.B.M.

65

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D103

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-D103

FIG. 295

"OR" CLASS OF TEST
(CONNECTION ESTABLISHED TO TEST FEATURES OF AN AUTO. CALL DISTRIBUTING POSITION TRUNK, WITH OR WITHOUT CONNECTION TO AN ATTENDANT)

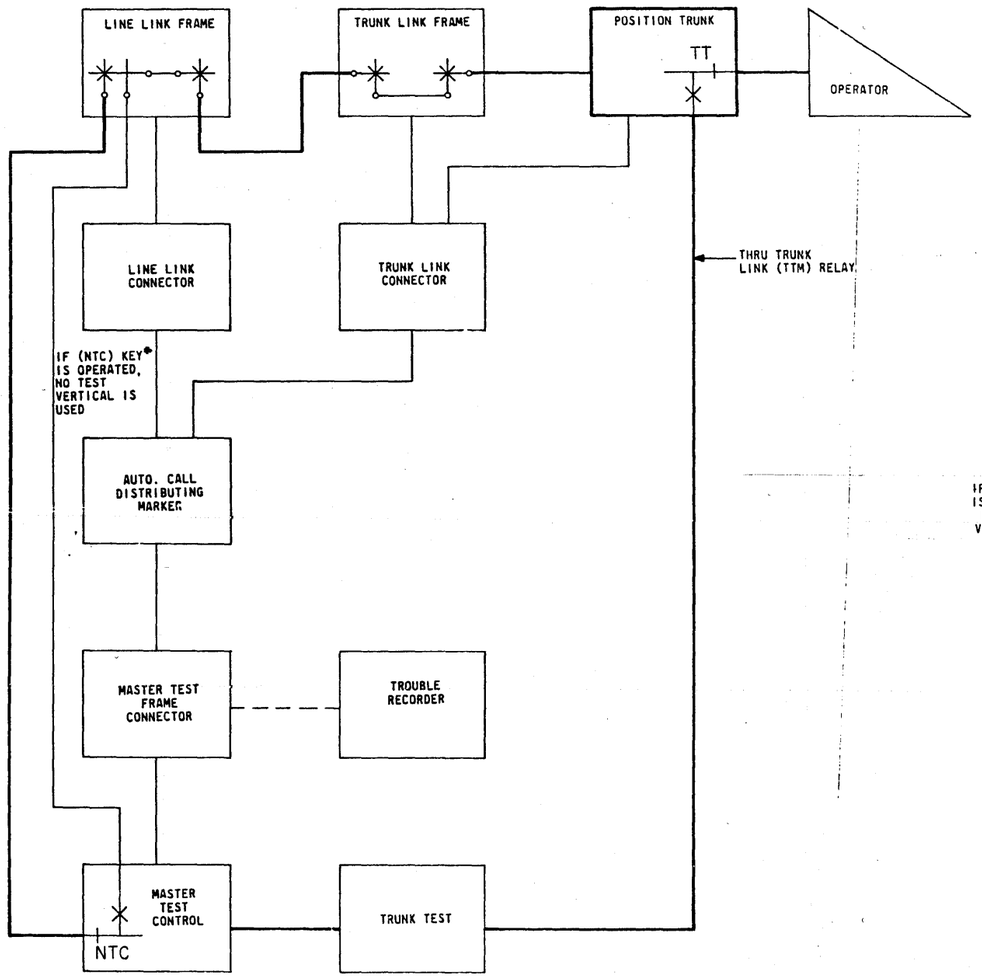
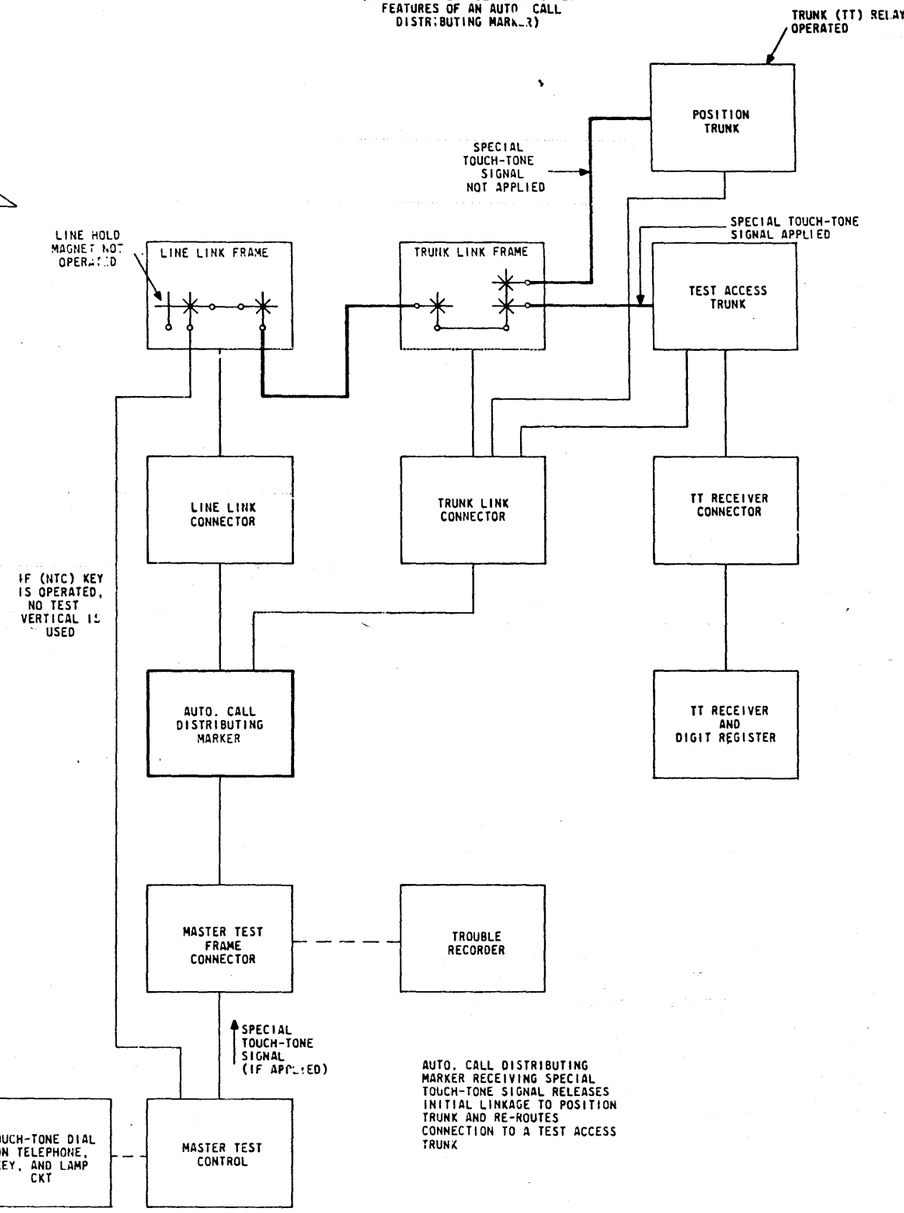


FIG. 296

"DT" CLASS OF TEST
(CONNECTION ESTABLISHED TO TEST FEATURES OF AN AUTO CALL DISTRIBUTING MARKER)



DRAWING ISSUE 650

65

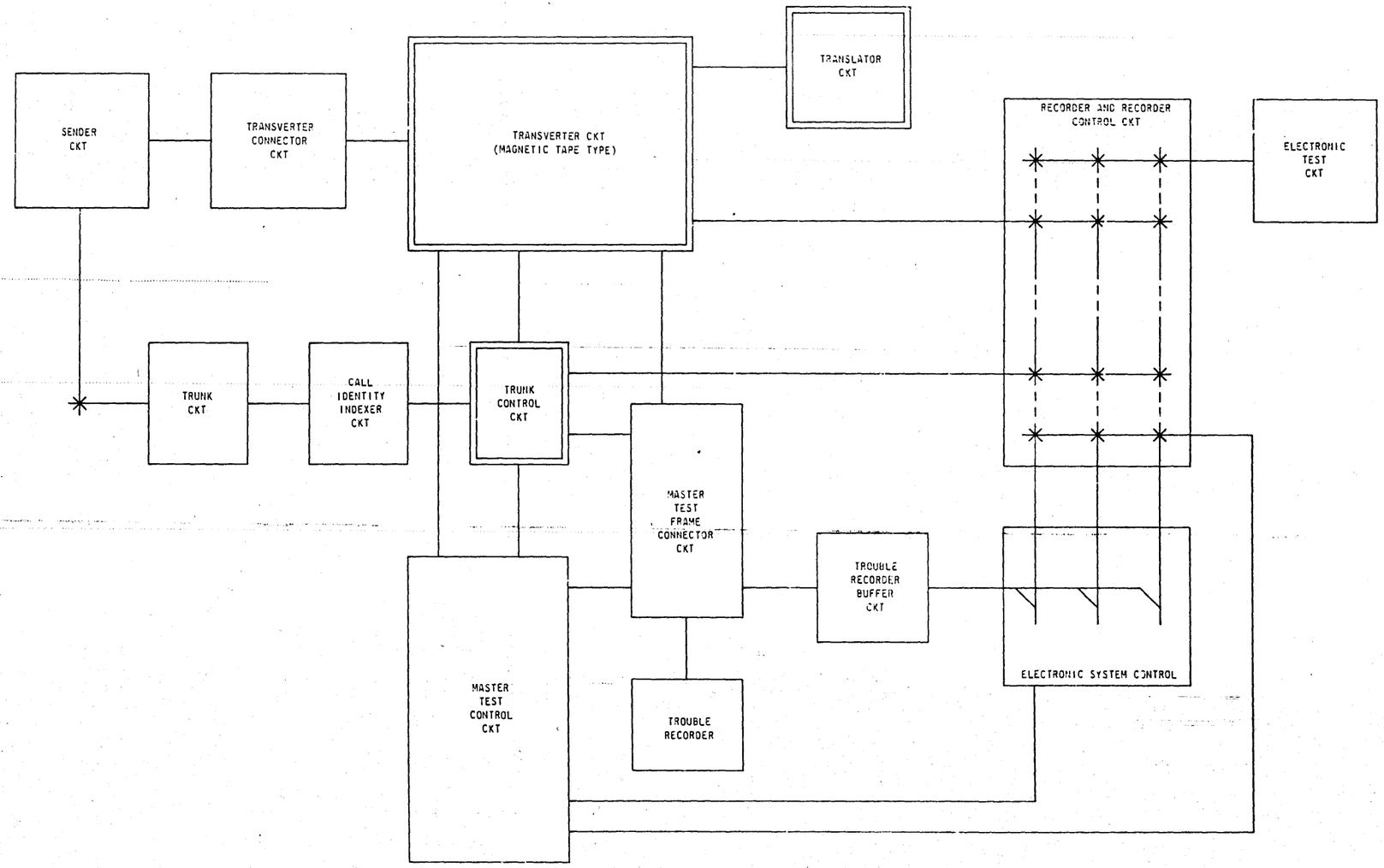
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D104

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D104

FIG. 297

MAGNETIC TAPE RECORDING
TRANSVERTER AND TRUNK CONTROL TEST



DRAWING ISSUE 670 PEC

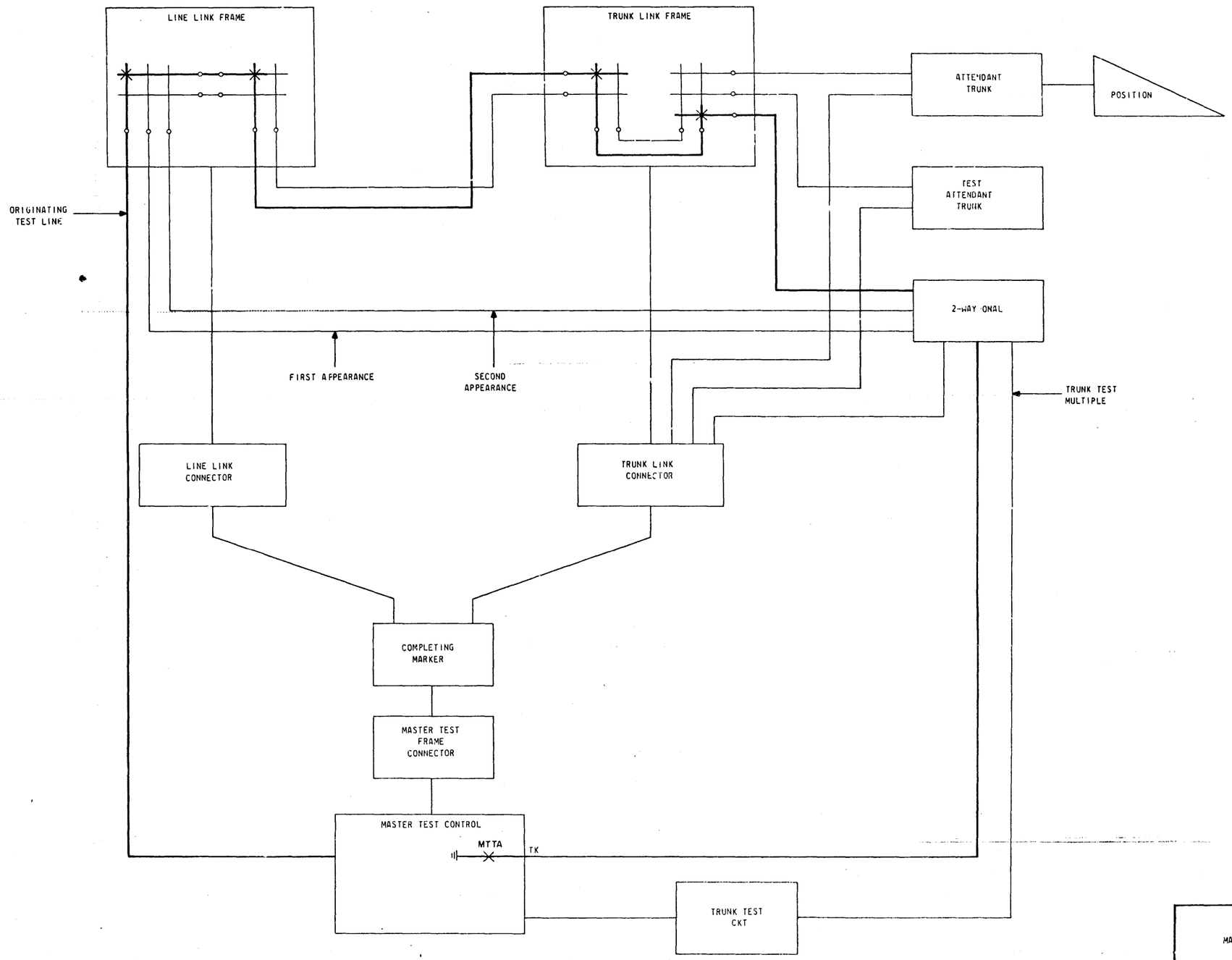
67

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D105

BELL TELEPHONE LABORATORIES INCORPORATED 6S

FIG. 298A

TEST OF 2-WAY ONAL CIRCUIT
FIRST STAGE - SEIZURE OF ONAL CIRCUIT
AND OPERATION OF (TT) RELAY ON "OGT"
BASIS



DRAWING ISSUE 74A

74

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D106A

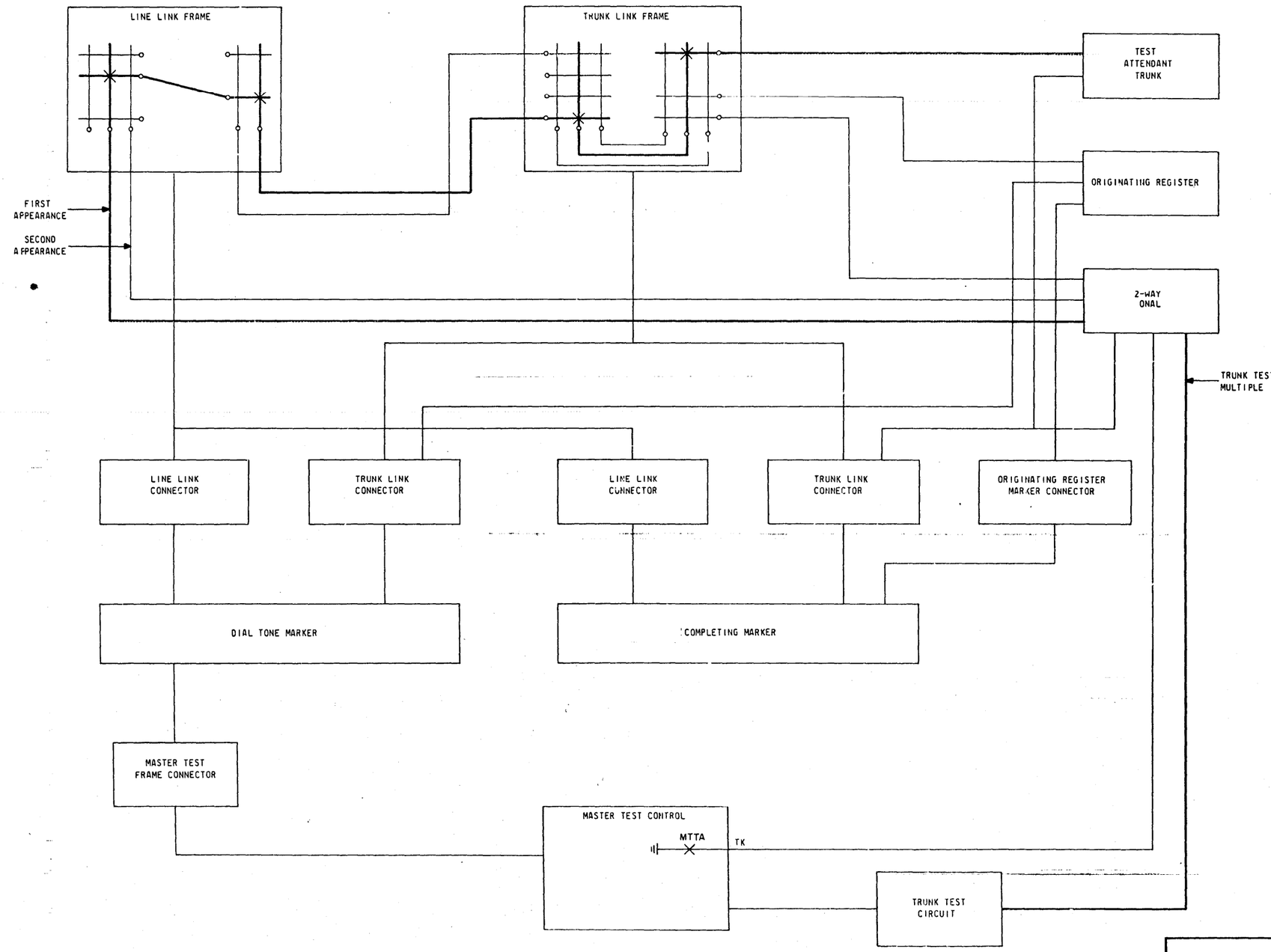
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-D106A

FIG. 298B

TEST OF 2-WAY ONAL CIRCUIT
SECOND STAGE - ESTABLISHING LINKAGE FROM
FIRST LINE LINK FRAME APPEARANCE OF ONAL CIRCUIT
TO TEST ATTENDANT TRUNK



DRAWING ISSUE 74A

74

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D1068

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

SD-25800-01-D1068

FIG. 299

WIDEBAND AUDIO AND VIDEO CONNECTIONS

DRAWING ISSUE 71D AS

WIDEBAND REMOTE SWITCH

REM SW TERM TST L

REM SW ORIG TST L

REM SW TST ACS VERT

INTRA REMOTE SW TRK

TEST TERMINAL

JK

JK

L8C

CUSTOMER STATION

REPEATER IF REQUIRED

VIDEO TEST SET

PRIMING SET CKT FOR TRK TEST REG

CENTRAL OFFICE

INTERMEDIATE CABLE EQUALIZERS

T,R

TI,RI

REPEATER IF REQUIRED

CUSTOMER STATION

AUDIO

AUDIO

AUDIO

TEST TRUNK

T1

T2

RSOTL

RSTTL

TTL

OTL

CONN CKT

TRUNK TEST REG FOR WIDEBAND

WIDEBAND CA EQUALIZER BAY

WIDEBAND CROSS CONN BAY

OTL TTL JACKS MTF JK, LP & KEY

WIDEBAND TEST LINE DISTRIBUTOR (FOR OTL)

WIDEBAND LINK LINE SW JCTR SW TRK SW

WIDEBAND IAO TRUNK

LINE LINK FR

TRK LINK FR

AUDIO IAO TRUNK

NO. TEST CONN CKT

MASTER TEST CONTROL CKT

WIDEBAND 2-WAY TRK TTI TTO

WIDEBAND TEST TRK

WIDEBAND TEST LINE DISTRIBUTOR (FOR TTI & TTO)

AUDIO 2-WAY TRK TEST JACK TT

AUDIO TEST TRK

TTL

OTL

TRUNK TEST CKT

WIDEBAND CROSS CONN BAY

WIDEBAND CA EQUILIZER BAY

VIDEO TO DISTANT OFFICE

TTI,TTO TRK JACKS MTF JK,LP & KEY

MDF

AUDIO TO DISTANT OFFICE

71

MASTER TEST CONTROL CKT (2)

SD-25800-01-D107

BELL TELEPHONE LABORATORIES INCORPORATED

65

SD 25800-01-D107

FIG. 300

WIDEBAND ORIGINATING CLASS OF MARKER
TEST OUTGOING TRUNK WITH SENDER

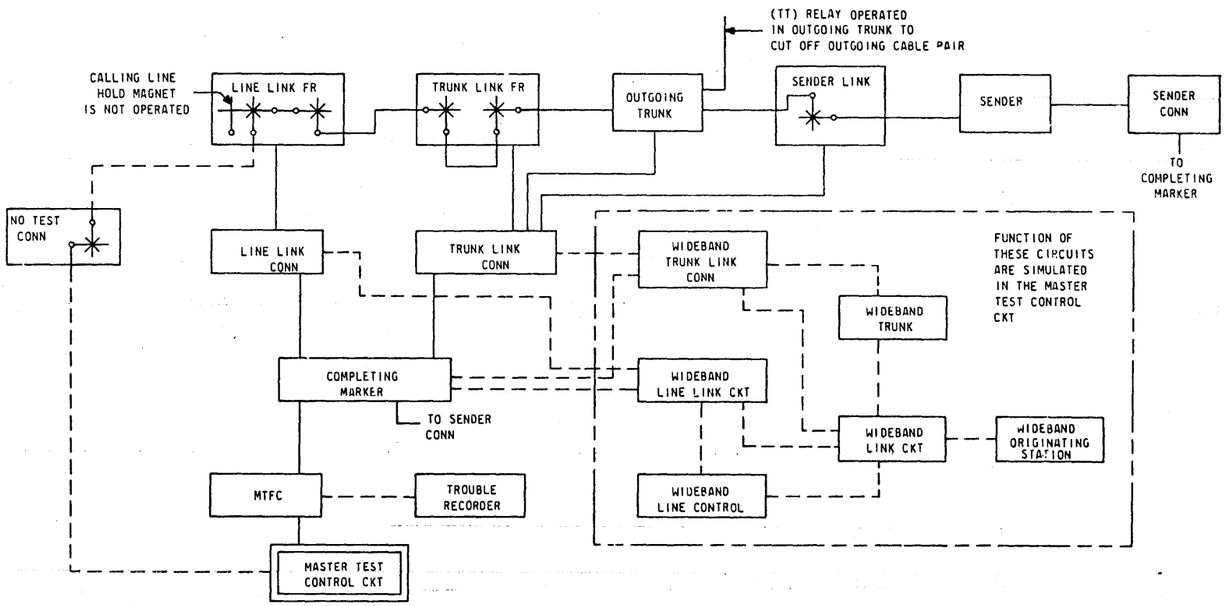
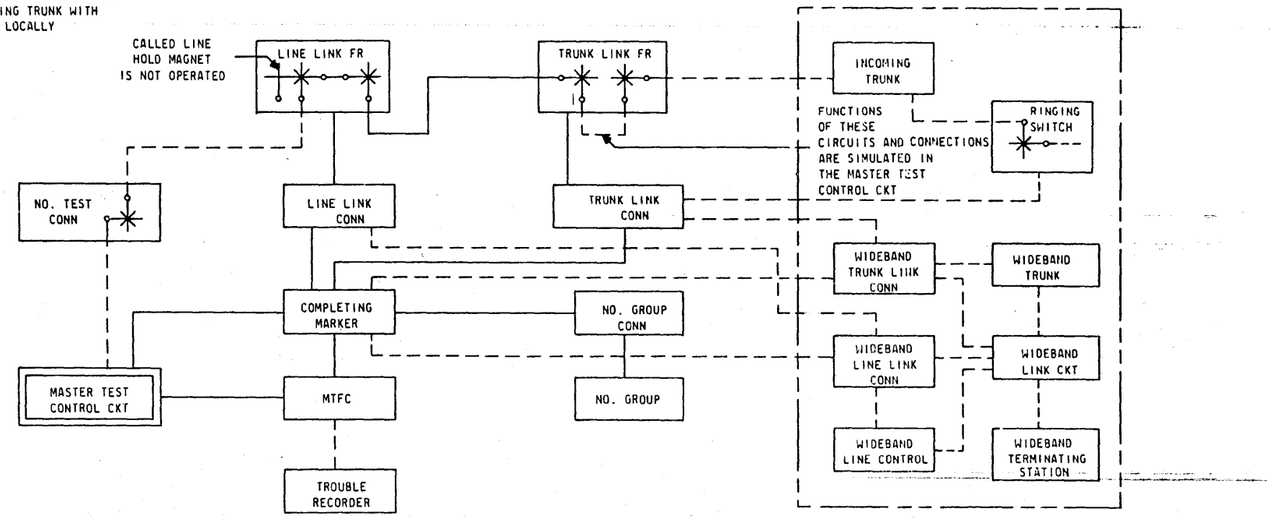


FIG. 301

WIDEBAND INCOMING CLASS OF MARKER TEST
SIMULATING SEIZURE BY AN INCOMING REGISTER
CONNECTED TO AN INCOMING TRUNK WITH
CALL TERMINATING LOCALLY



DRAWING ISSUE 710 AFL

71

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D108

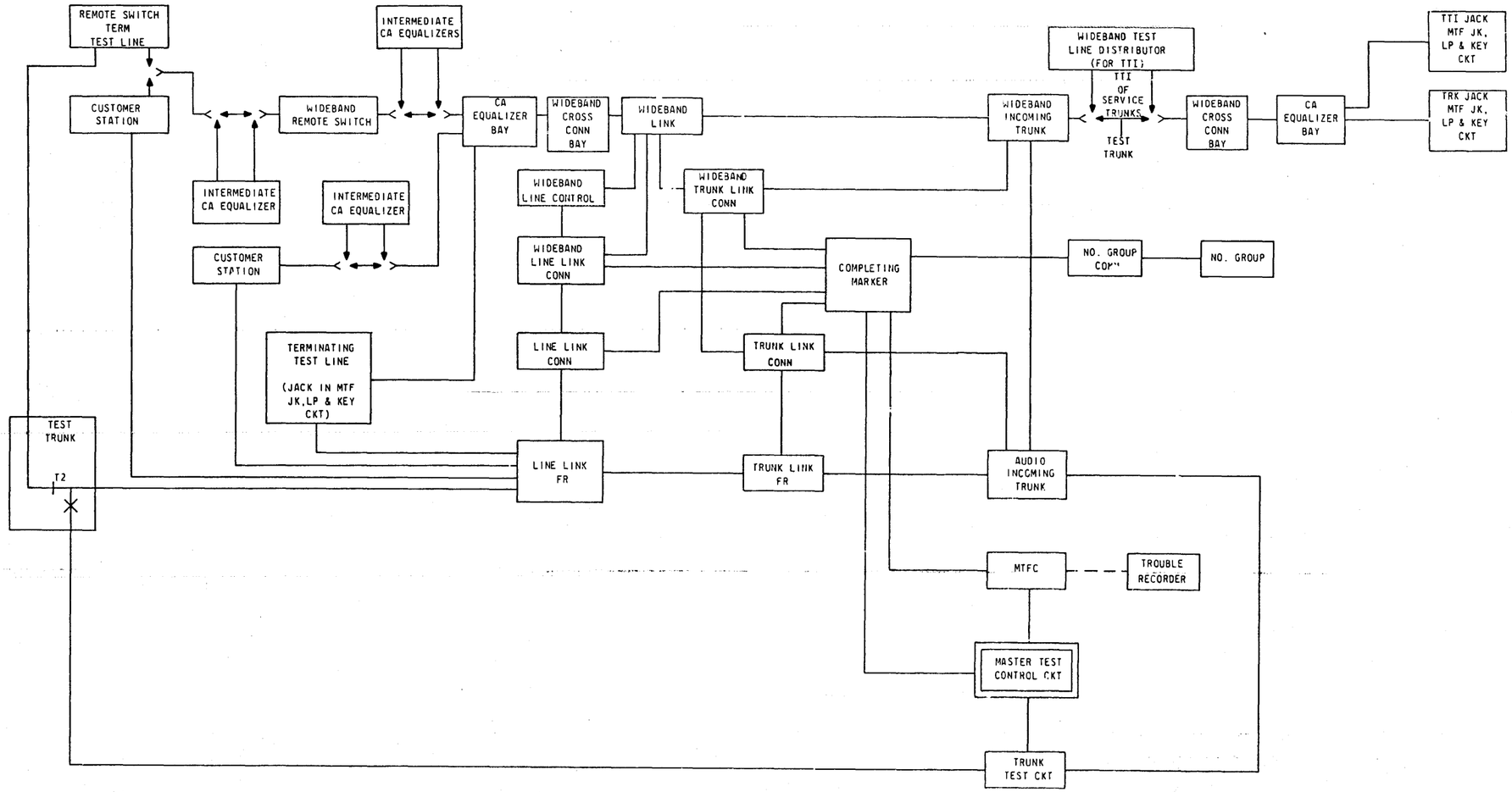
BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-D108

FIG. 302

WIDEBAND ITNP CLASS OF TRUNK TEST, SETTING UP CONNECTION FROM INCOMING TRUNK (OR INCOMING TEST TRK) TO CALLED LINE



DRAWING ISSUE 71D A8

71

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D109

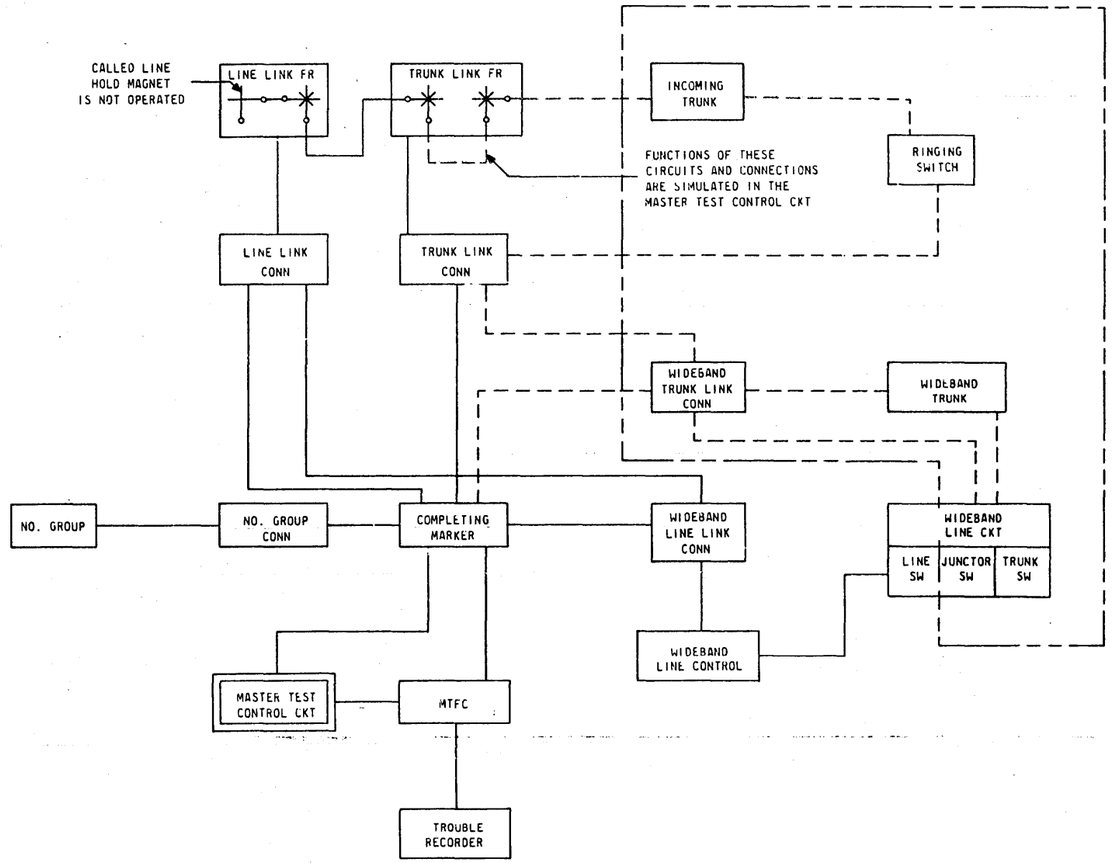
BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-25800-01-D109

FIG. 303

WIDEBAND MARKER LINE
VERIFICATION-LOCAL STATION



DRAWING ISSUE 7ID AB

71

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-0110

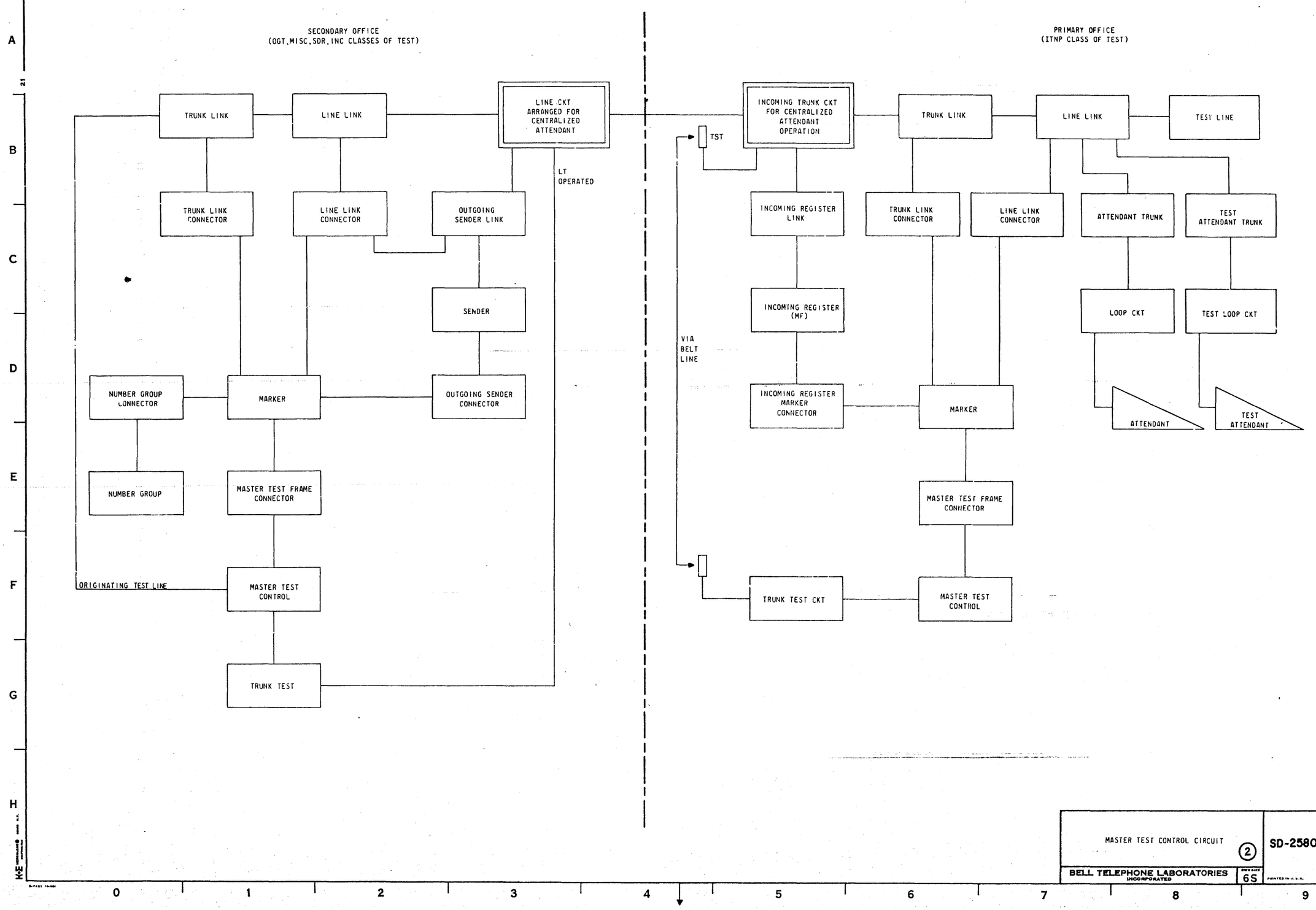
BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-0110

FIG. 304

CENTREX (PH III) - CALL TRANSFER
CENTRALIZED ATTENDANT



DRAWING ISSUE 730 C9

73

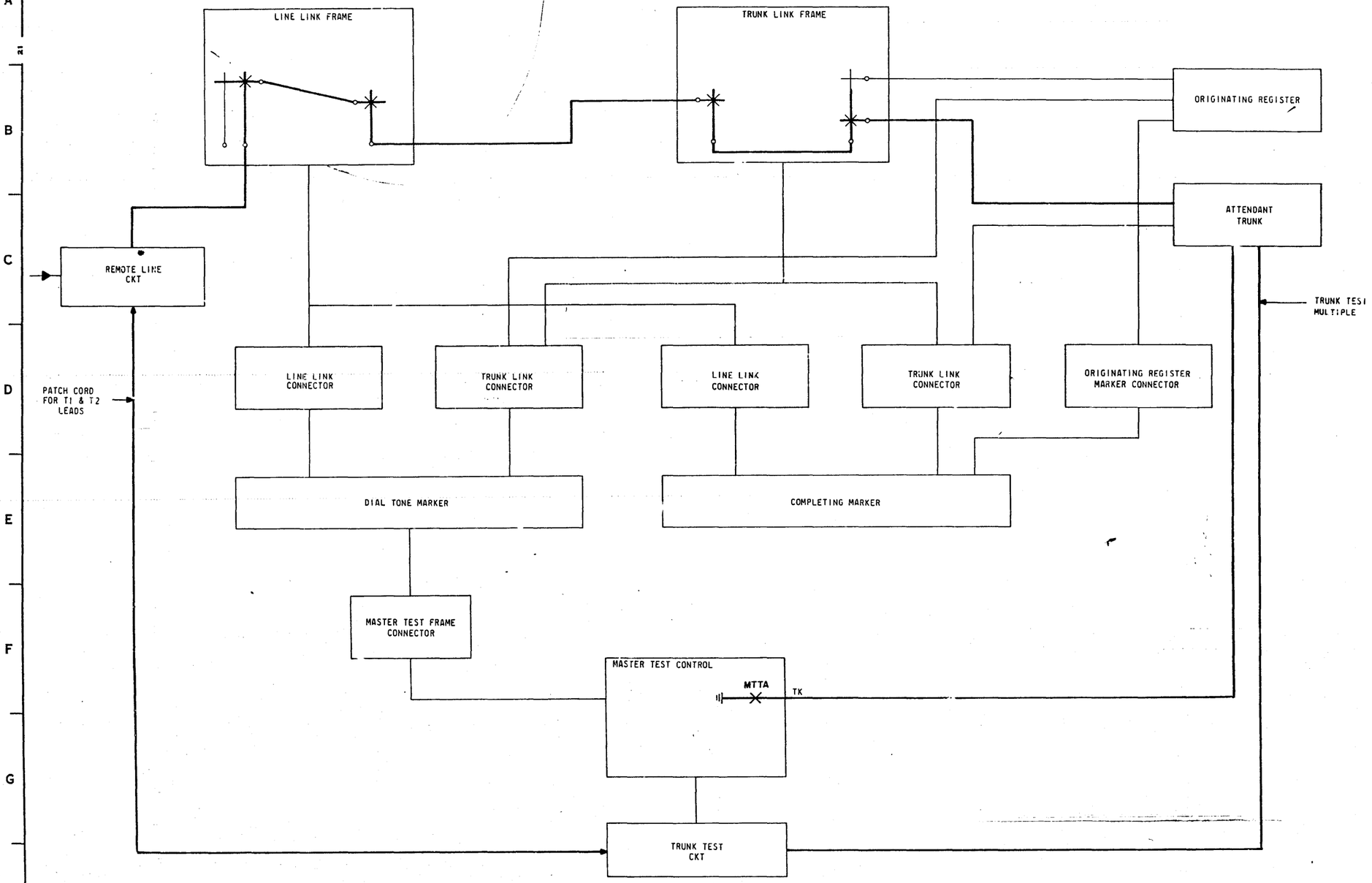
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-DIII

BELL TELEPHONE LABORATORIES INCORPORATED — DRAWING SIZE 6S

SD-25800-01-DIII

FIG. 305

ESTABLISHING CONNECTION FROM
REMOTE LINE CIRCUIT
(SWITCHED) TO ATTENDANT TRUNK



DRAWING ISSUE 74A

C3

74

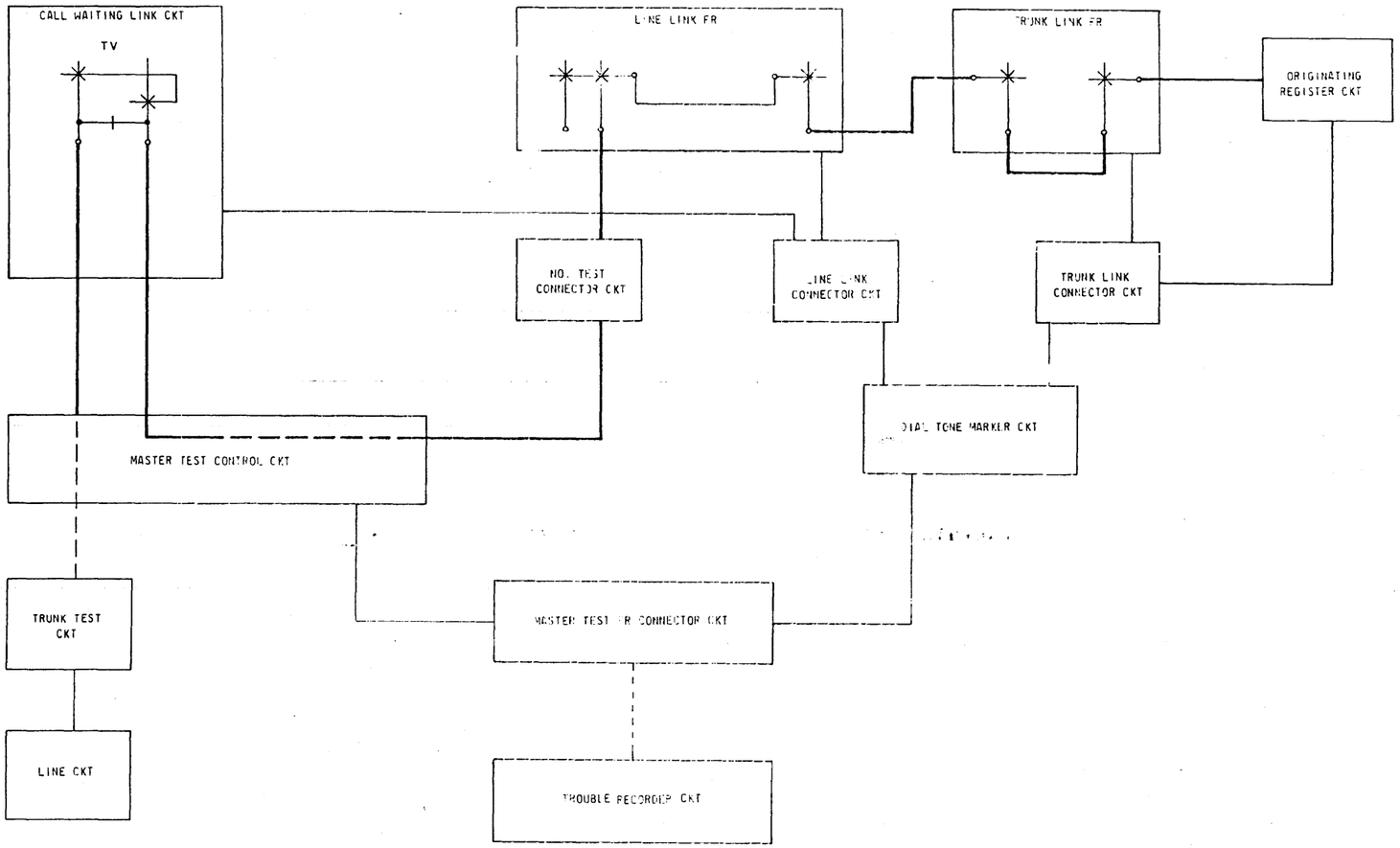
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D112

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D112

FIG. 306

CALL WAITING - DIAL TONE MARKER USAGE



DRAWING ISSUE
76D
78D

78

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-DI13

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-25800-01-DI13

FIG. 307
CALL WAITING - USE OF CUSTOMER'S VERTICAL

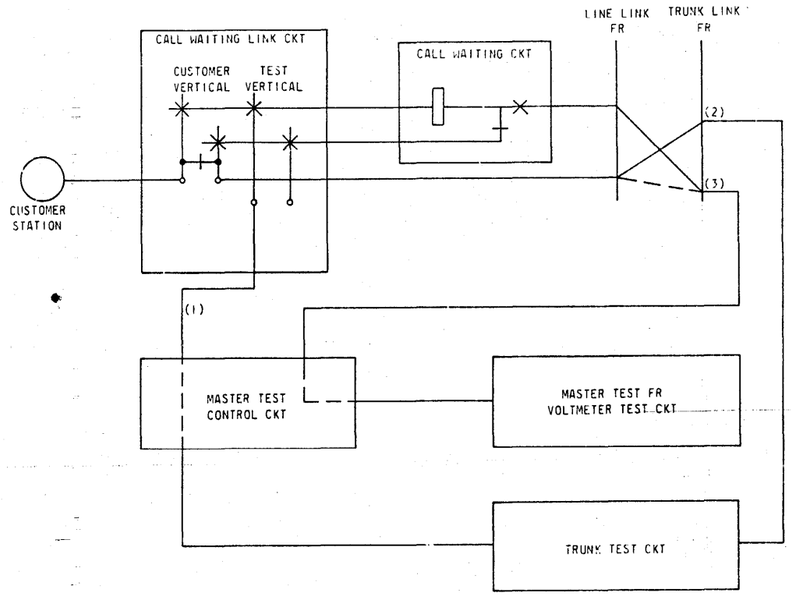
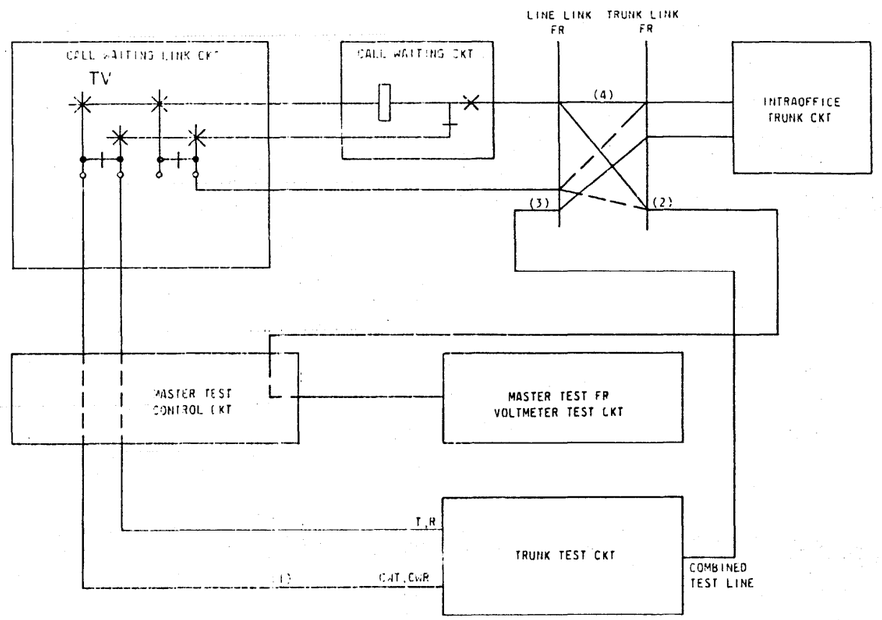


FIG. 308
CALL WAITING - USE OF TEST VERTICAL
(CALL WAITING CKT TEST)



DRAWING ISSUE
76D
78D

78

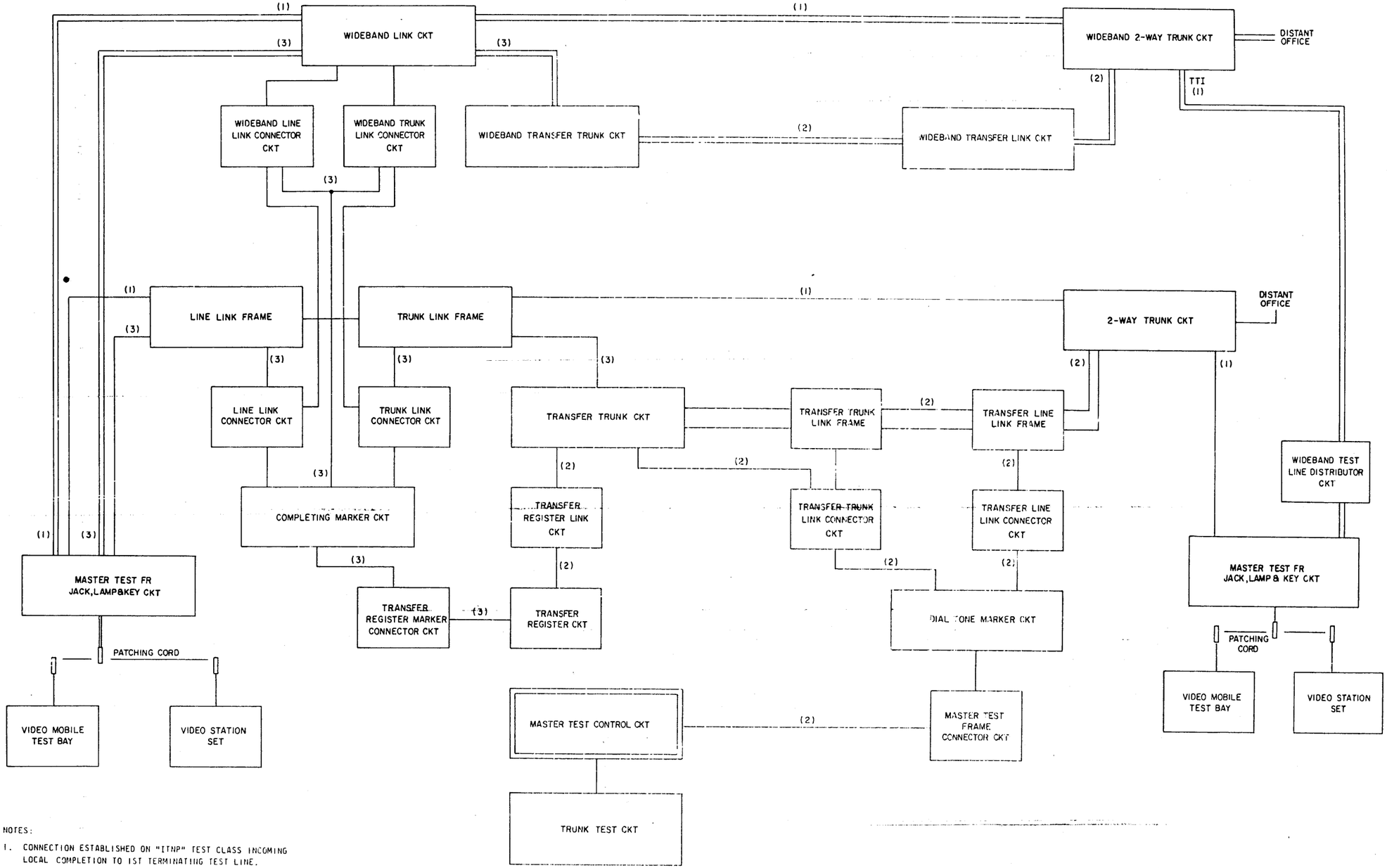
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D114

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

SD-25800-01-D114

FIG. 309

WIDEBAND CENTREX-TEST OF TRANSFER TRUNK CIRCUIT



NOTES:

1. CONNECTION ESTABLISHED ON "ITNP" TEST CLASS INCOMING LOCAL COMPLETION TO 1ST TERMINATING TEST LINE.
2. A PARTICULAR TRANSFER TRUNK CONNECTION TO A TRANSFER REGISTER ESTABLISHED ON AN "OR" TEST CLASS.
3. CONNECTION FROM THE TRANSFER TRUNK TO A 2ND TERMINATING TEST LINE ESTABLISHED BY DIALING FROM THE 1ST TERMINATING TEST LINE INTO THE TRANSFER REGISTER.

DRAWING ISSUE 780

78

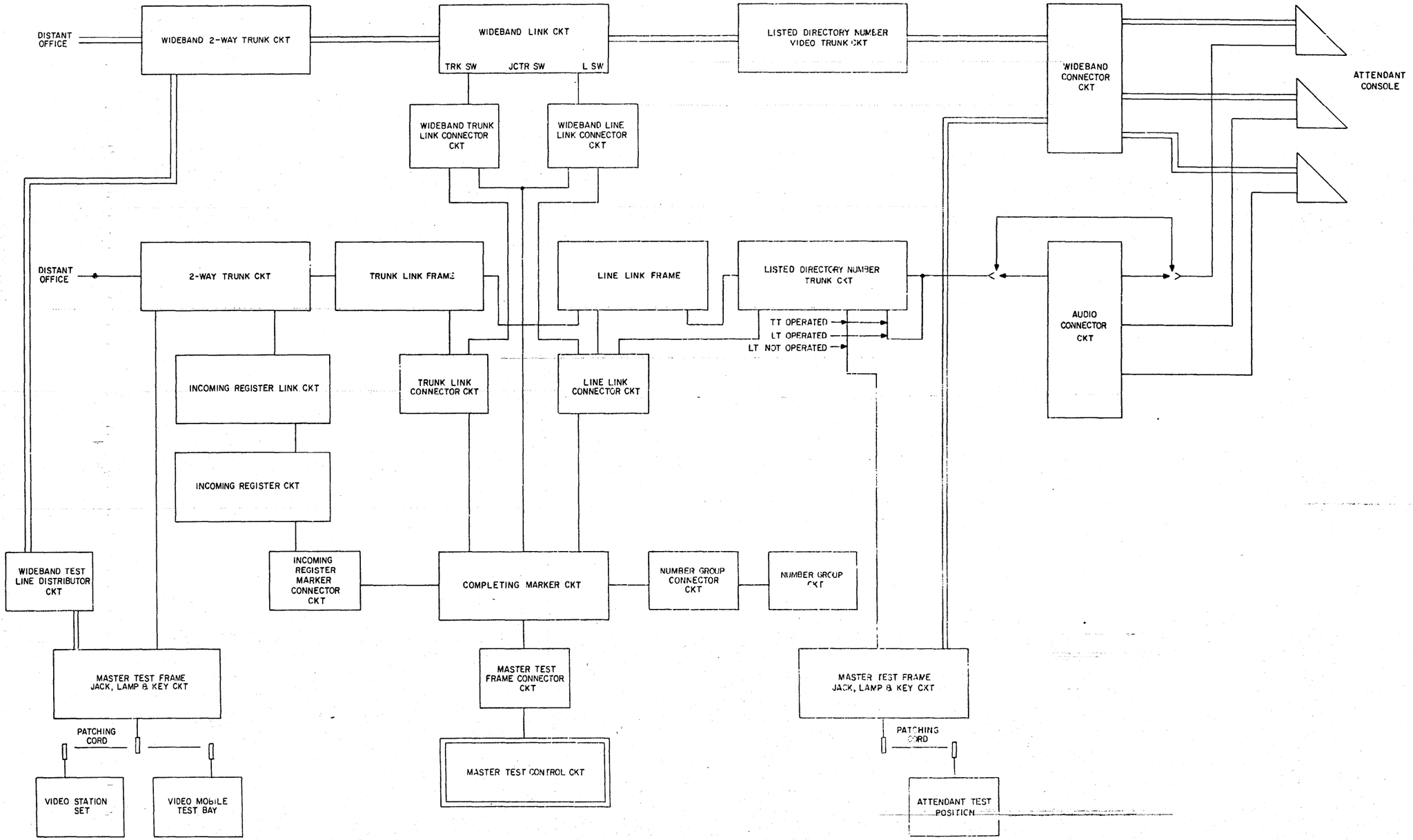
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D115

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-D115

FIG. 310

WIDEBAND CENTREX–"ITNP" TEST OF LISTED DIRECTORY NUMBER TRUNK CIRCUIT



DRAWING ISSUE 780

78

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-D116

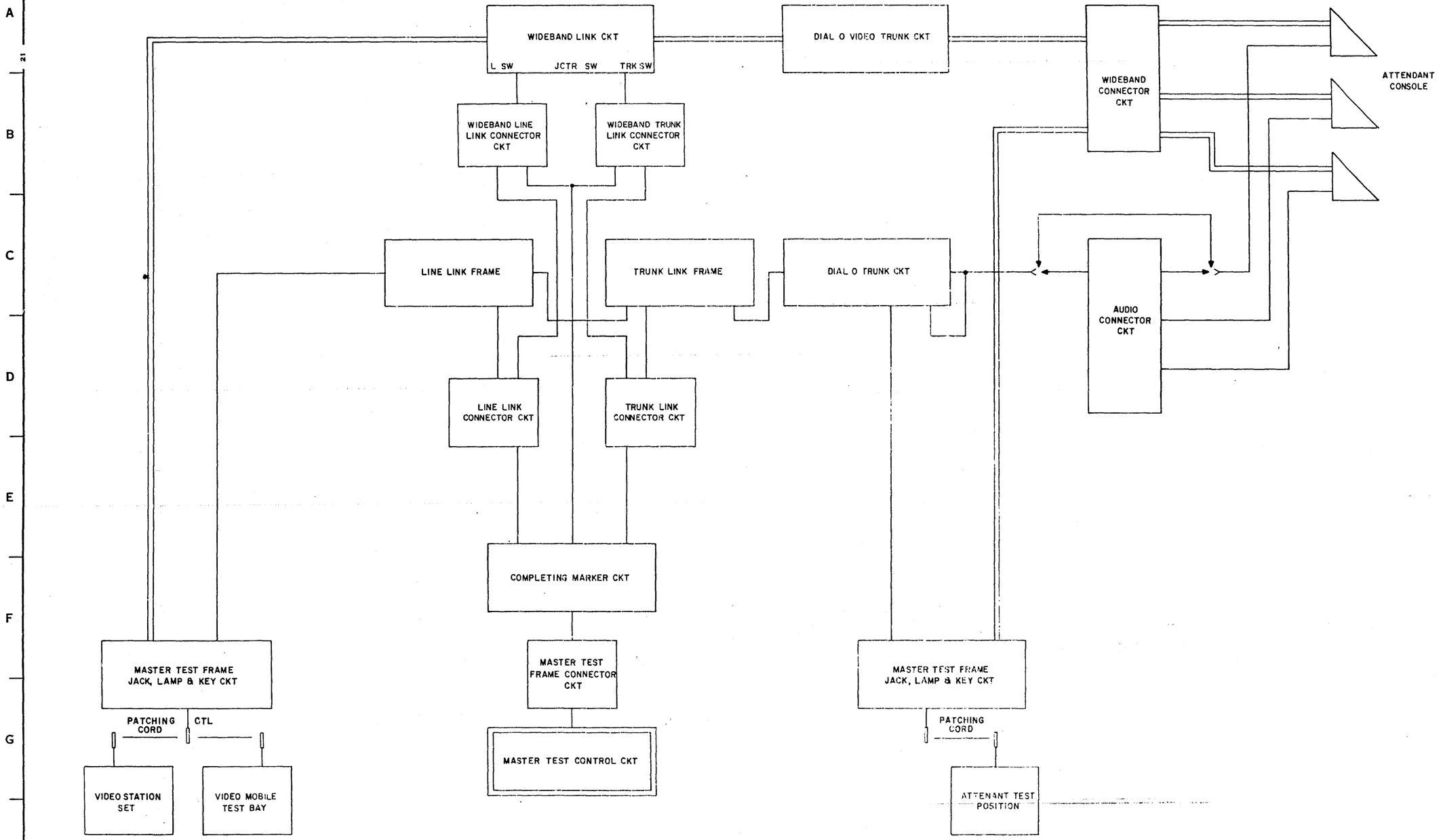
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-D116

FIG. 311

WIDEBAND CENTREX - DIAL - O - OPERATOR TRUNK TEST



DRAWING ISSUE 78D

78

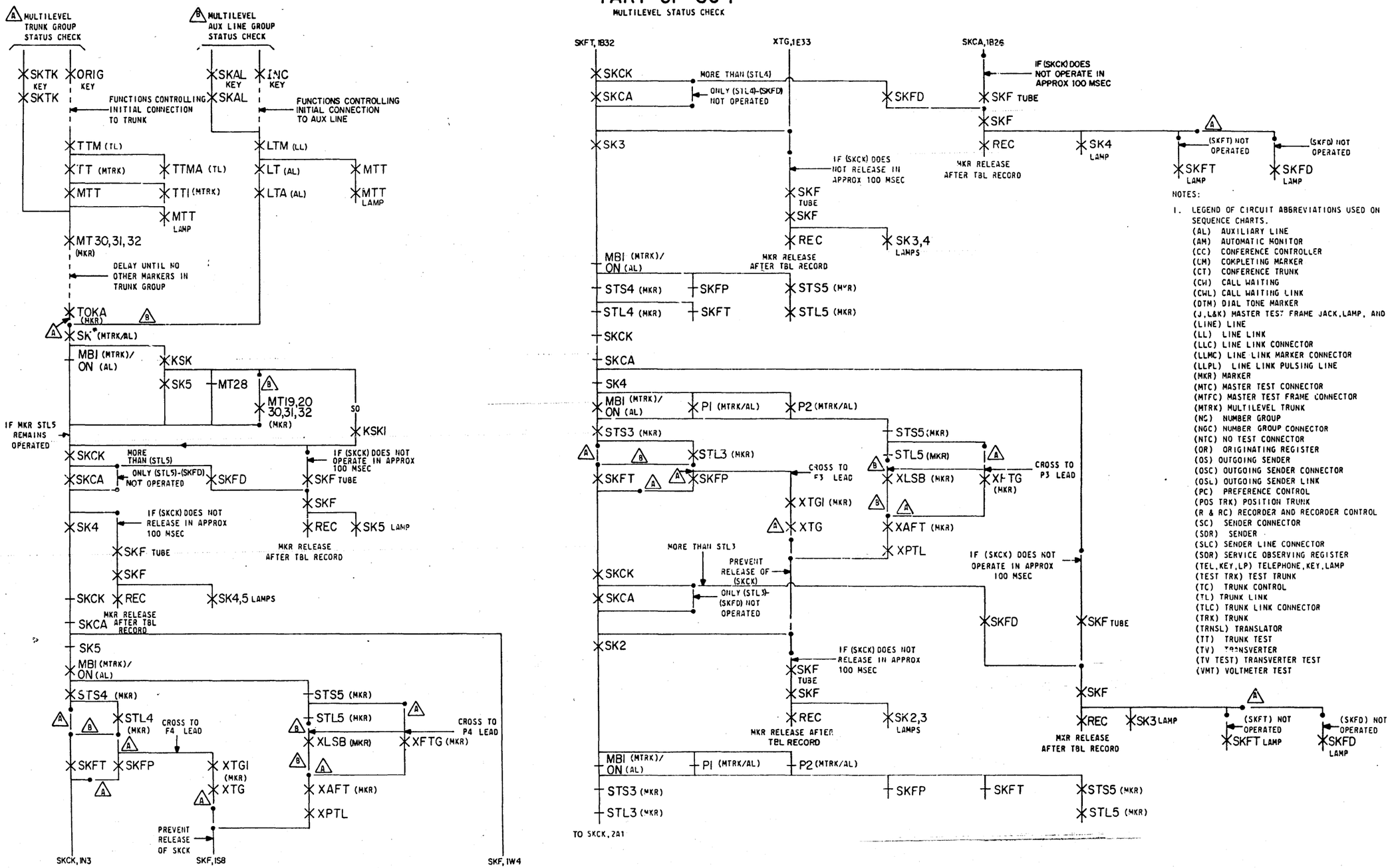
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-D117

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-D117

PART OF SC I

MULTILEVEL STATUS CHECK



NOTES:

1. LEGEND OF CIRCUIT ABBREVIATIONS USED ON SEQUENCE CHARTS.
   - (AL) AUXILIARY LINE
   - (AM) AUTOMATIC MONITOR
   - (CC) CONFERENCE CONTROLLER
   - (CM) COMPLETING MARKER
   - (CT) CONFERENCE TRUNK
   - (CW) CALL WAITING
   - (CWL) CALL WAITING LINK
   - (DTM) DIAL TONE MARKER
   - (J,L&K) MASTER TEST FRAME JACK,LAMP, AND KEY
   - (LINE) LINE
   - (LL) LINE LINK
   - (LLC) LINE LINK CONNECTOR
   - (LLMC) LINE LINK MARKER CONNECTOR
   - (LLPL) LINE LINK PULSING LINE
   - (MKR) MARKER
   - (MTC) MASTER TEST CONNECTOR
   - (MTFC) MASTER TEST FRAME CONNECTOR
   - (MTRK) MULTILEVEL TRUNK
   - (NG) NUMBER GROUP
   - (NGC) NUMBER GROUP CONNECTOR
   - (NTC) NO TEST CONNECTOR
   - (OR) ORIGINATING REGISTER
   - (OS) OUTGOING SENDER
   - (OSC) OUTGOING SENDER CONNECTOR
   - (OSL) OUTGOING SENDER LINK
   - (PC) PREFERENCE CONTROL
   - (POS TRK) POSITION TRUNK
   - (R & RC) RECORDER AND RECORDER CONTROL
   - (SC) SENDER CONNECTOR
   - (SDR) SENDER
   - (SLC) SENDER LINE CONNECTOR
   - (SOR) SERVICE OBSERVING REGISTER
   - (TEL,KEY,LP) TELEPHONE,KEY,LAMP
   - (TEST TRK) TEST TRUNK
   - (TC) TRUNK CONTROL
   - (TL) TRUNK LINK
   - (TLC) TRUNK LINK CONNECTOR
   - (TRK) TRUNK
   - (TRNSL) TRANSLATOR
   - (TT) TRUNK TEST
   - (TV) TRANSVERTER
   - (TV TEST) TRANSVERTER TEST
   - (VMT) VOLTMETER TEST

DRAWING ISSUE		
61A	COIT SAV ARR	CB
69D	CH	CB
78D		CB
83A		CB

ISSUE 93A

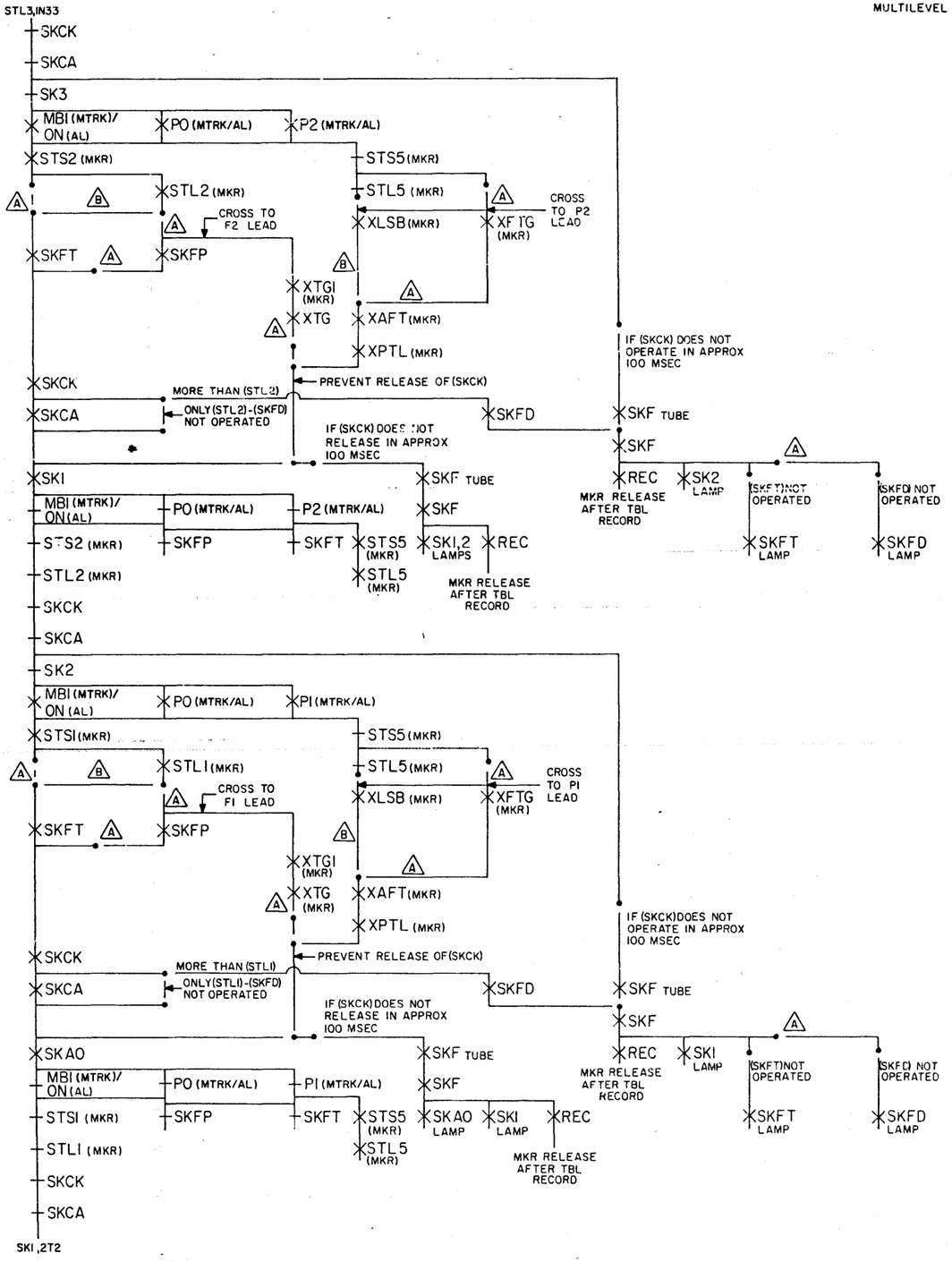
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E1

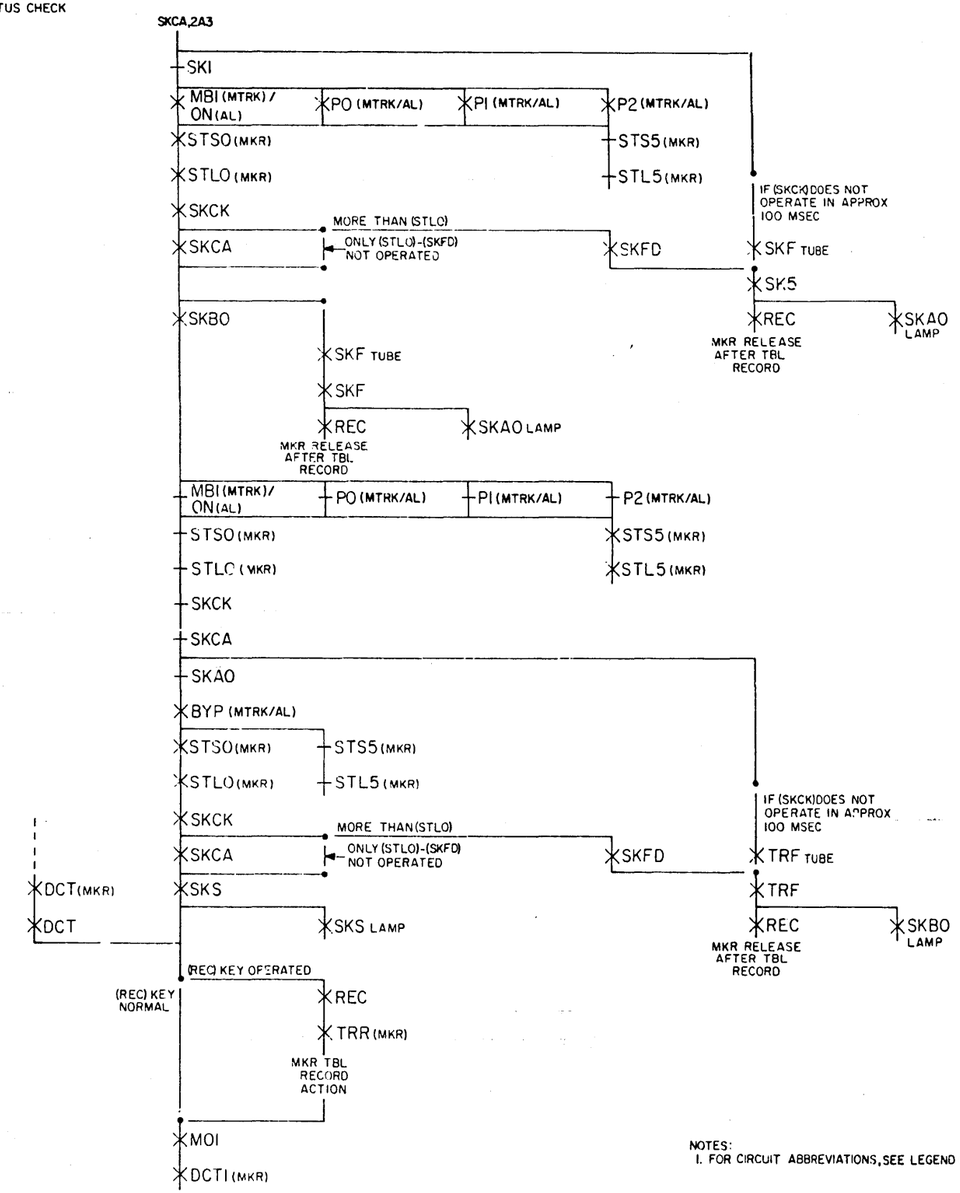
BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-E1

HIGGINS 4465

PART OF SC 1
MULTILEVEL STATUS CHECK





NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE

61A	NF SW 1880
69D	LFP

69

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E2

BELL TELEPHONE LABORATORIES INCORPORATED 6S

HIGGINS 4465

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PART OF SC 2

4-WIRE CONFERENCE CONTROLLER TESTS
INITIAL CONNECTION OGT CLASS OF TRUNK TEST
MTC CALLS MARKER, MARKER SEIZES CONFERENCE TRUNK

DRAWING ISSUE
61A TS SM AMY
69D ESM

(A) INDIVIDUAL SELECTION

IST KEY
CCT
TT (CT)
T (CC)
TCI,2 (CC)
TI (CC)
$P\frac{I}{A-E}$ (CC)
$PI\frac{I}{A-E}$ (CC)
PS (CC)
PSI (CC)
CCT LP
$AL\frac{X}{0-16}$ (CC)
CONFERENCE CONTROLLER FUNCTION

SELU SWITCH POS (0)
STAD KEY
STA
ST LP
STAD KEY

CONTROLLER REPEATS CYCLE FOR OTHER POSITION OF (SELU) SWITCH AND (SLTI) KEY

RSO (CC)
MS (PC)
MARKER FUNCTIONS
MRLO (CC)

STA
ST LP
MRLA (CC)
RSO (CC)
MS (PC)
MARKER DISCONNECTS

(B) CONTROLLED ADVANCE

CTAD KEY
CCT
TT (CT)
T (CC)
TCI,2 (CC)
ASSUMED PATTERN "A" AND CONFEREE CROSS CONNECTION IN CC
TAI,2 (CC)
PA (CC)
PIA (CC)
ALI (CC)
CLO (CC)
HCO (CC)
AL2 (CC)
AL3 (CC)
PS (CC)
PSI (CC)
CCT LP
AII (CC)
AI2 (CC)
AI3 (CC)

REMOTE CONTROL
WHITE BUTTON
RST
WHITE BUTTON
RST
START
STAD KEY
STA
ST LP
STAD KEY

RSI (CC)
MARKER FUNCTIONS
MRLI (CC)

STA
ST LP
START
MRLAI (CC)
RSI (CC)
MARKER DISCONNECTS

RS2 (CC)
MARKER FUNCTIONS
MRL2 (CC)

STA
ST LP
START
MRLA2 (CC)
RS2 (CC)
MARKER DISCONNECTS

RS3 (CC)
MARKER FUNCTIONS
MRL3 (CC)

ECA (CC)
EC LP
STA
ST LP
MRLA3 (CC)
STL LP
RS3 (CC)
TEST COMPLETED
MARKER DISCONNECTS

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

69

MASTER TEST CONTROL CIRCUIT
(2) SD-25800-01-E3
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

SD-25800-01-E3
HIGGINS 4465

PART OF SC 2

4-WIRE CONF CONTROLLER TESTS

(C) AUTOMATIC ADVANCE

STAA KEY
TT (CC)
T (CC)
CCT
AST
TAI,2 (CC)
TCI,2 (CC)
PC (CC)
P5 (CC)
PSI (CC)
CCT LAMP
PIC,P2C (CC)
ALO (CC)
AIO (CC)
CL2 (CC)
HC2 (CC)
ALI (CC)
AII (CC)
AL3 (CC)
AI3 (CC)

ASSUMED PATTERN C AND CONFEREE CROSS CONNECTION IN CC

ASTR
136-267 MSEC
AST
STA
ST LAMP
AST
RSO (CC)

MARKER FUNCTIONS

MRLO (CC)
STA
ST LAMP
136-267 MSEC
MRLAO (CC)
RSO (CC)
MARKER DISCONNECTS
AST
STA
ST LAMP
AST
RSI (CC)

MARKER FUNCTIONS

MRLI (CC)
STA
ST LAMP
136-267 MSEC
MRLAI (CC)
RSI (CC)
MARKER DISCONNECTS
AST
STA
ST LAMP
AST
RS3 (CC)

MARKER FUNCTIONS

MRL3 (CC)
EC (CC)
ECA (CC)
EC LAMP
STA
ST LAMP
136-267 MSEC
AST
MRLA3 (CC)
RS3 (CC)
MARKER DISCONNECTS
STA
AST
STL LAMP
ST LAMP

TEST COMPLETED

(D) RECYCLE PREVIOUS TEST COVERED ON (A),(B), OR (C) WITH (CBRL) OR (RBT) KEY OPERATED

CONF CONTROLLER HAS SET UP ALL CONNECTIONS ON PREVIOUS TEST

RC (CC)
CRC
REMOTE CONTROL
WHITE BUTTON
RST
STRC KEY
RC LAMP
STRC (CC)

TUBE TIMING

HOLD UNTIL (RC) LAMP IS EXTINGUISHED

RTM TUBE (CC)
RTMS (CC)
RTMA, RTMB (CC)
RTMC (CC)
BT-/BRL-/CNR (CC) ANY OPERATED
TRL (CC)
RC (CC)
WHITE BUTTON
RST
STRC KEY
CRC
RC LAMP
STRC (CC)
STA
RC- (CC)

SERVES ALL CONFEREES WITH RELEASED (MRL) AND OPERATED (AL) RELAYS SEE SEQUENCE UNDER (A),(B) OR (C)

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE
61A POTT SIG MAG CB
69D ESM CB

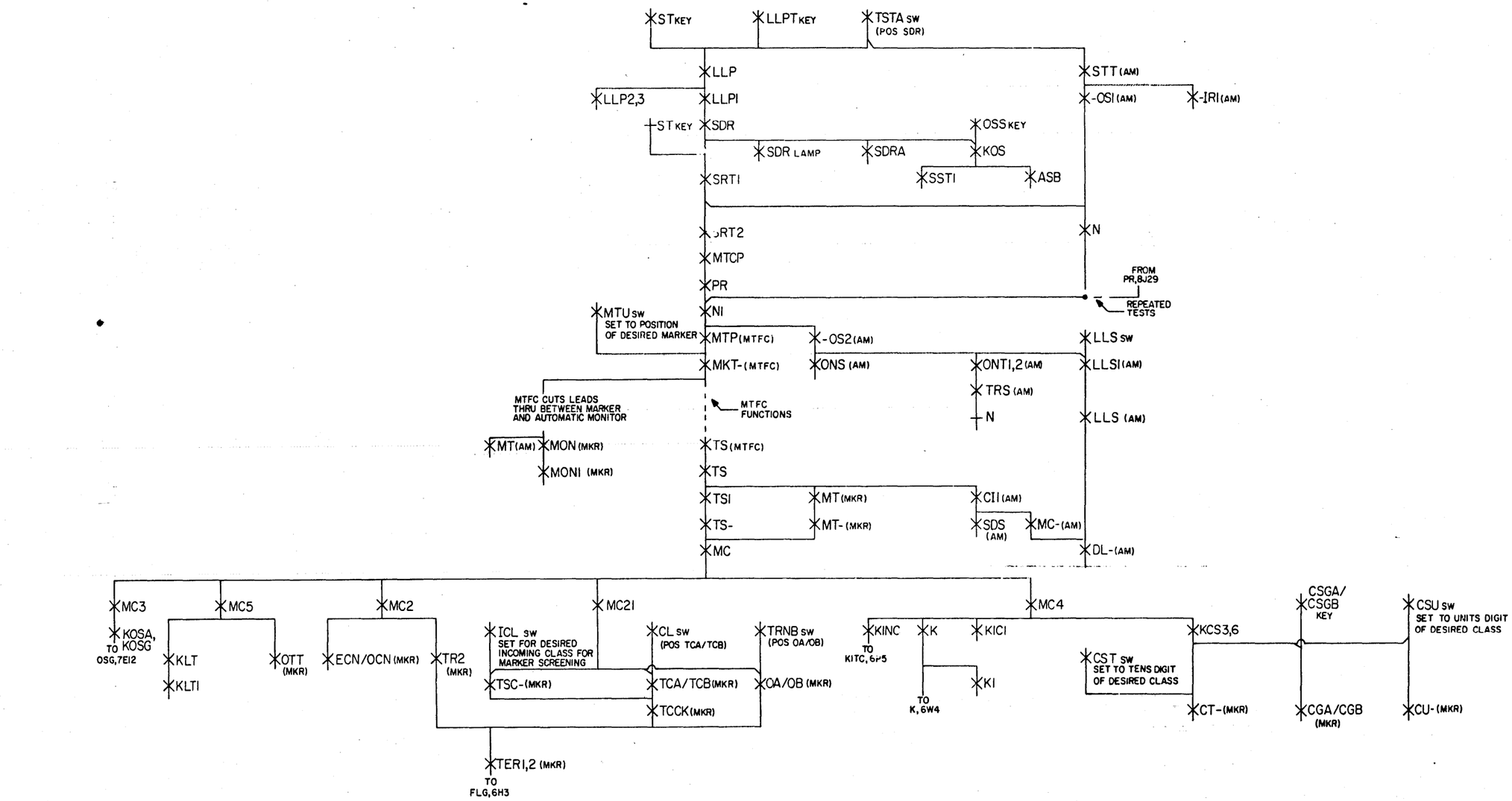
69

MASTER TEST CONTROL CIRCUIT
2
SD-25800-01-E4
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-E4
HIGGINS 4465

PART OF SC 3

LINE LINK PULSING SENDER TESTS
WITH CONNECTION TO AUTOMATIC MONITOR
(TEST START AND MARKER PRIMING)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 690 CH

69

MASTER TEST CONTROL CIRCUIT (2)

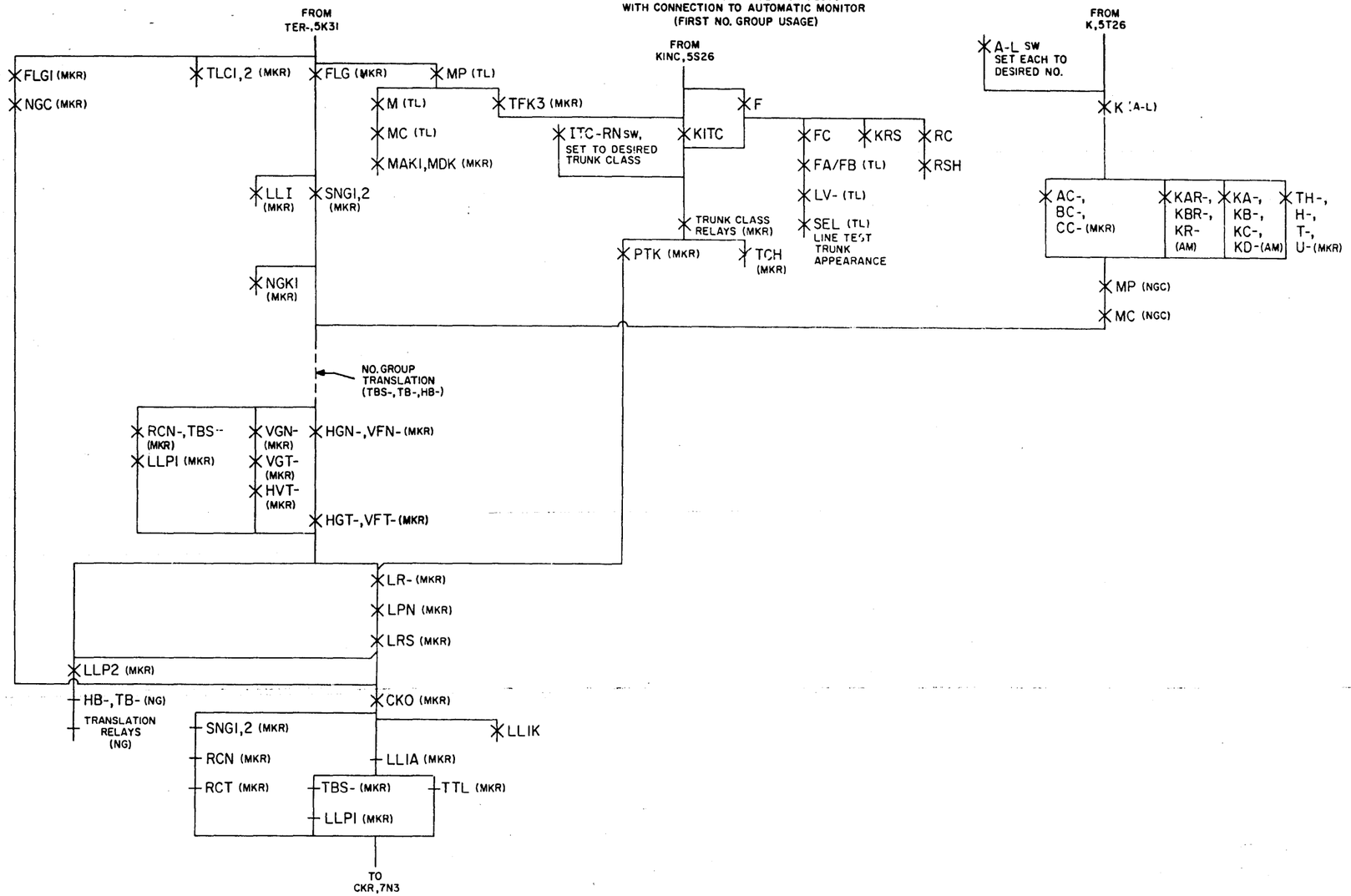
SD-25800-01-E5

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E5

PART OF SC 3

LINE LINK PULSING SENDER TESTS
WITH CONNECTION TO AUTOMATIC MONITOR
(FIRST NO. GROUP USAGE)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS SEE LEGEND ON SHEET E1

DRAWING ISSUE 690 ASL FP

69

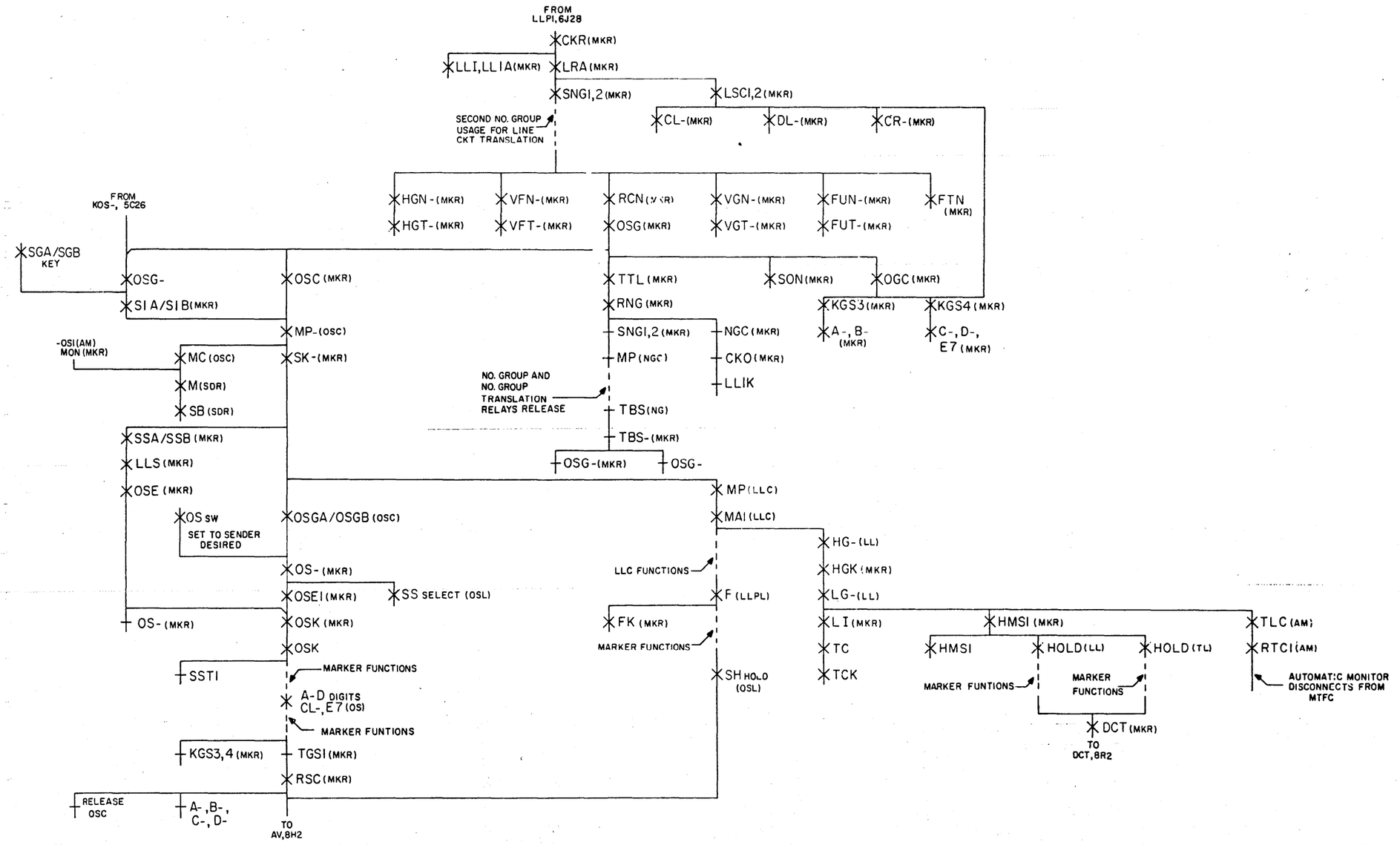
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E6

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E6

PART OF SC 3

LINE LINK PULSING SENDER TESTS
WITH CONNECTION TO AUTOMATIC MONITOR
(SECOND NUMBER GROUP USAGE)



NOTES
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE
690 DK 6SM

69

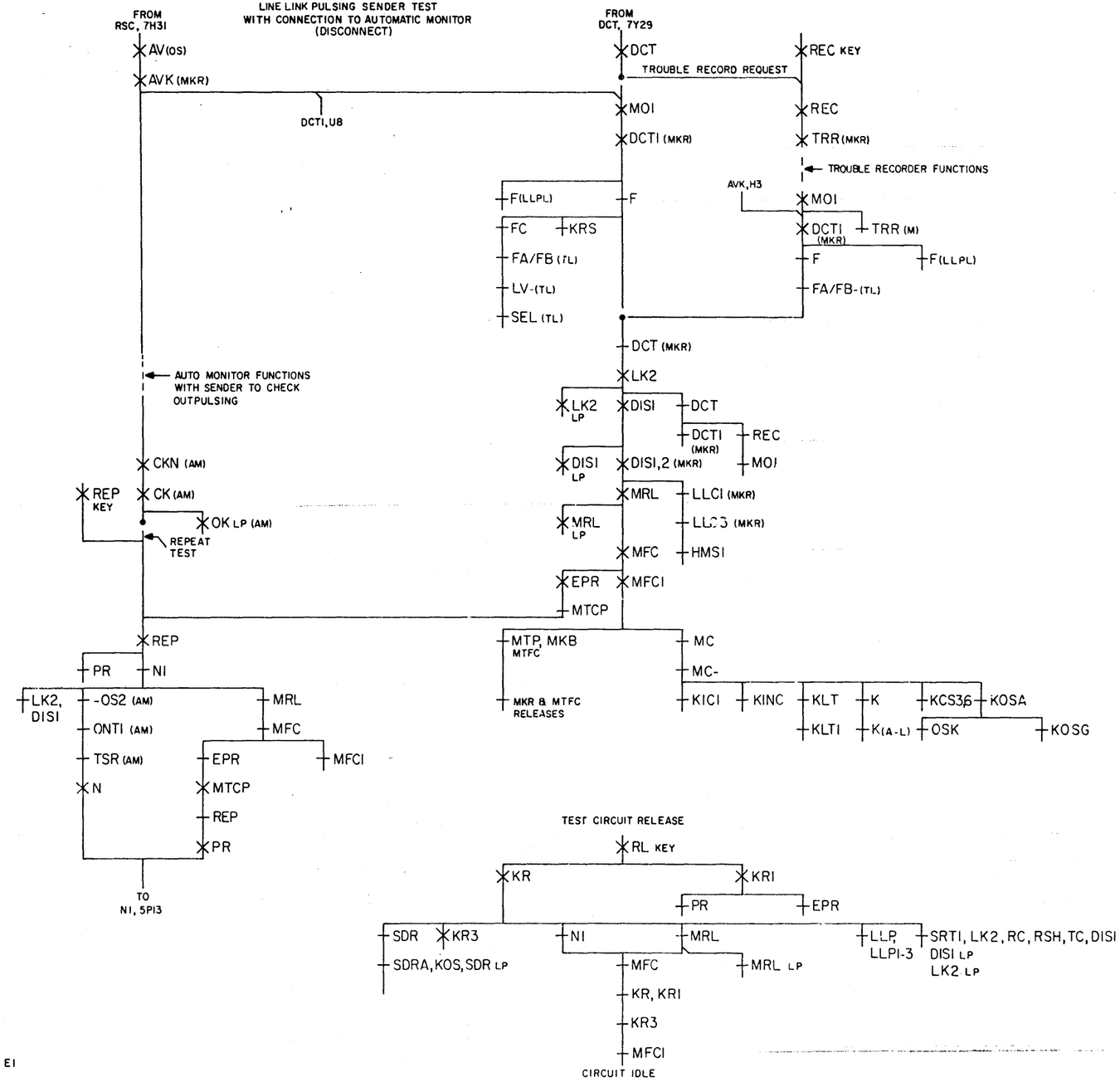
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E7

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E7

PART OF SC 3

LINE LINK PULSING SENDER TEST
WITH CONNECTION TO AUTOMATIC MONITOR
(DISCONNECT)



NOTES:
1. FOR CIRCUIT ABBERVIATIONS SEE LEGEND ON SHEET E1

DRAWING ISSUE
690 ASI D P C3

69

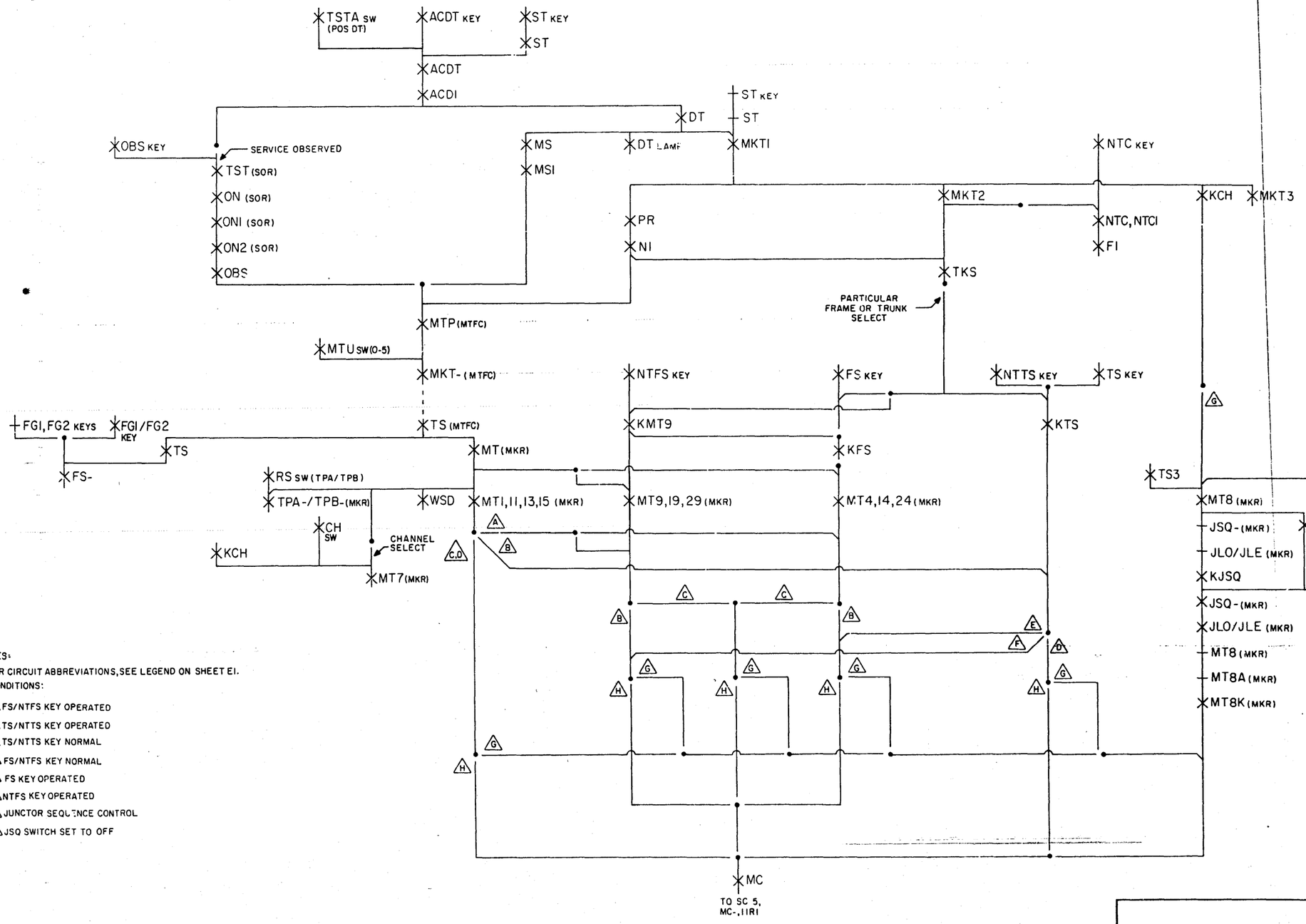
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E8

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

SD-25800-01-E8

SC 4A

ACD DIAL TONE CLASS TEST CALL
(DESIRED TERMINATION TO POSITION TRUNK)
(TEST START)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.
2. CONDITIONS:
   - A FS/NTFS KEY OPERATED
   - B TS/NTTS KEY OPERATED
   - C TS/NTTS KEY NORMAL
   - D FS/NTFS KEY NORMAL
   - E FS KEY OPERATED
   - F NTFS KEY OPERATED
   - G JUNCTOR SEQUENCE CONTROL
   - H JSQ SWITCH SET TO OFF

DRAWING ISSUE: 70A 2K ESM

70

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E9

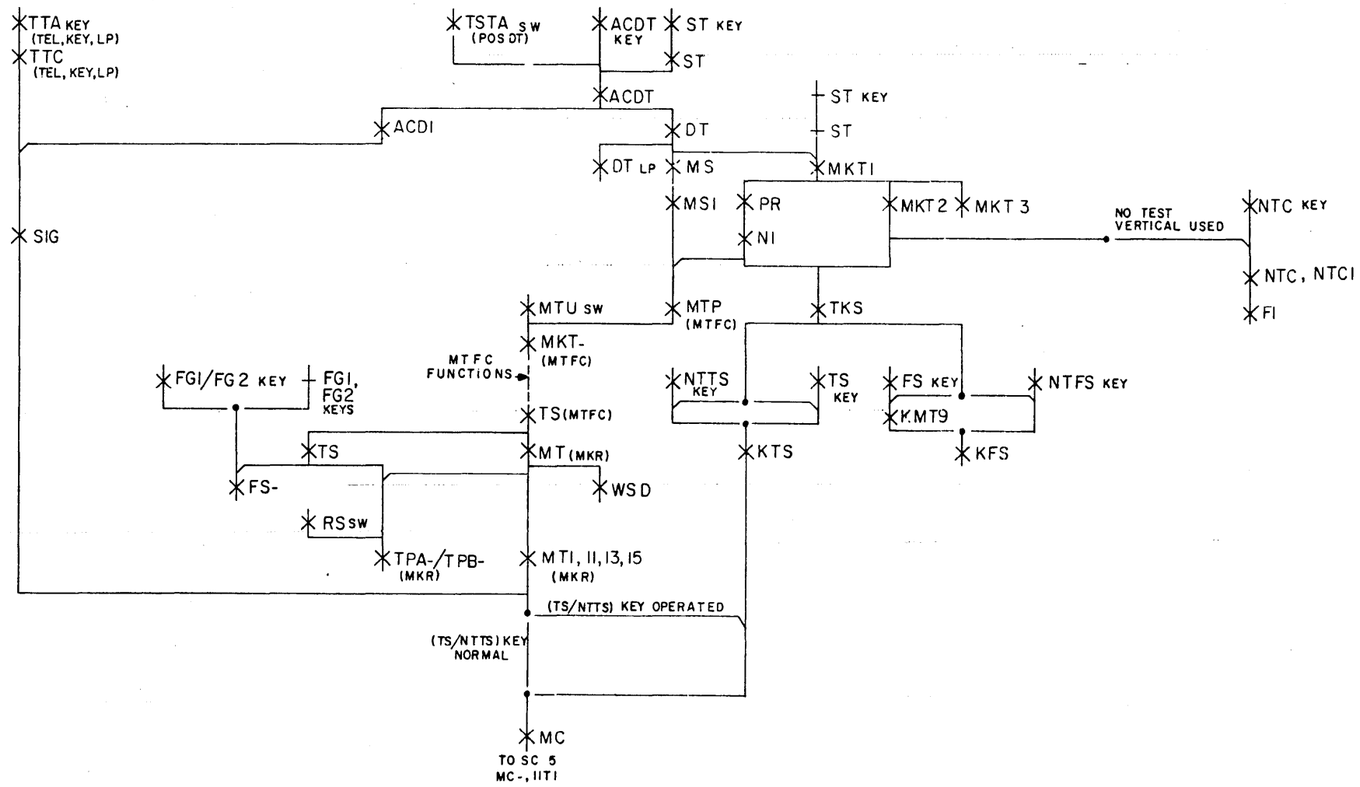
BELL TELEPHONE LABORATORIES INCORPORATED

PAGE SIZE 6S

SD-25800-01-E9

SC 4B

ACD DIAL TONE CLASS TEST CALL
(DESIRED TERMINATION TO TEST ACCESS CIRCUIT)
(TEST START)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 70A

70

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-E10

SD-25800-01-E10

SC 5

ACD DIAL TONE CLASS TEST CALL
(MARKER START AND OPERATION)

FROM SC 4A MC, 9R37

FROM SC 4B MC, 10N24

MC2 MSI RG SW
(POSITION MLF) (POSITION VP)
MLF (MKR) MLF (MKR) VP-(MKR)
VGU SW
VGGI (MKR)
RYC (MKR)
LLCI,2 (MKR)
HGG (MKR) VFG (MKR) FMK (MKR)
GK (MKR) FMG (MKR)
VG SW
GC (MKR) STPI (MKR) LLC 3,4 (MKR)
PNR (MKR) SLRK (MKR)
VGT-(MKR)
VGR (MKR)
VTK (MKR)
FREE CHANNEL SELECT
PARTICULAR CHANNEL SELECT
VGGI (MKT) OCI (MKR)
CHsw KCH
KHGT (MKR) VTKI (MKR) OC (MKR)
HGT- (MKR)
HGR (MKR)
HTK (MKR)
HGG (MKR)
TCI
TST (LLMC)
LO (LL)
MC (LLMC)
TCH (MKR)
TCHK (MKR)
HTKI (MKR) HGA-, HGB- (LLC) VGB- (LL) M- (LLMC)
HGK (MKR)
CSU SW C3T SW
KV VFSW KCSO KCSI
VFT- (MKR)
FREE CLASS SELECT
PARTICULAR CLASS SELECT
FR (MKR)
VFG (MKR)
G- (TLC)
JC- (TL)
JCK (MKR)
CSU- (MKR) CST (MKR)
CLA (MKR)

MC4
KVGI, 2
KFTU
FUSW
FU- (MKR)
FUT (MKR)
FMG (MKR)
AVG KEY
FTCK (MKR)
TTM (MKR)
AVG (MKR) FS-(MKR)
AVG
NON PREFERRED TRUNKS MADE PREFERRED
FS- (MKR)
FTCK (MKR)
SNK (MKR)

ORGSW MC2 MSI
R- (MKR)
CKGI (MKR)
FCK (MKR) FCR-/FCP- (MKR) FSsw MT 14,14,24 (MKR) MT 9,19,29 (MKR) TLC, TLC1 (MKR)
FREE SELECT
TRUNK SELECT
SIG SIG
FTC- (MKR)
KTS KTS
MARKER ROUTE ADVANCES
TSUsw MT 5,6 (MKR) TSE1,2 (MKR)
RAVI (MKR) RAV
RAU SW
NO ROUTE ADVANCE
KRA
MKR ROUTES NO OF TIMES CORRESPONDING TO (RAU) SW SET
RA
FTCK (MKR)
FRAME BUSY
FRAME IDLE
TTM (MKR)
AV (MKR)
SNK (MKR)
AV
SELECT NON PREFERRED TRUNK ON IDLE FRAME
AV LP.
AV KEY
FS-(MKR)
TA (MKR)

MP (TL PREFERENCE)
TFKI (MKR) M (TLC) TLC (MKR)
TFK 2 (MKR) -TLF (MKR) TL CONN RELAYS
FCR-/FCP- (MKR) FCK/FCKA (MKR)
FTC- (MKR)
MAKI (MKR)
FM- (MKR)
FMK (MKR)
FMG (MKR)
TB-(TL)
TBK (MKR)
TS-(MKR)
MT5,6 (MKR) TSE1,2 (MKR)
F (POS TRK)
TT (POS TRK)
TT- (MKR)

FA/FB (TL)
FMG (MKR) FM (MKR)
TBI/TMD/TMT/NTM (MKR)
LC- (TL)
LV- (TL)
LCK (MKR)
FAK/FBK (MKR) SI (POS TRK) FMK (MKR)
A/B,T SEL (TL)
FML (MKR)
TK (MKR)
TO SC 6, DTK, 12J2

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 70A

70

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E11

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-E11

SC 6

ACD DIAL TONE CLASS TEST CALL
(MARKER OPERATION)

FROM SC 5
TK, 11J40

FROM SC 7
TK, 13P33

FROM SC 8
DTK, 14F17

NO IDLE CHANNEL
IN JUNCTOR GROUP

DTK (MKR)

SLRK (MKR)

TO SC 8
STP, 14F4

IDLE CHANNEL

CH- (MKR)

LGCK (MKR)

TGCK (MKR)

CHA (MKR)

J SEL (TL)

L, LJ SEL (LL)

LGCK (MKR)

HMT (MKR)

MT 7 (MKR)

HMTI (MKR)

TCH- (MKR)

HMSI (MKR)

HMSI

JXP (MKR)

JXPA (MKR)

J HOLD (TL)

JXP (MKR)

JXPI (MKR)

T HOLD (TL)

SL (MKR)

SLA (MKR)

J HOLD (LL)

LLT (MKR)

LLTA (MKR)

LTR (MKR)

GLH (MKR)

GLHI (MKR)

OBS KEY

SERVICE OBSERVED

LHM

LHMA

LXP (MKR)

LGCK (MKR)

LXPA (MKR)

OBSI (MKR)

CON KEY

LXP (MKR)

CL- (SOR)

CLCK (SOR)

GC - (SOR)

GCCK (SCR)

TO- (SOR)

TOCK (SOR)

CK2

CK1

CK LP

(CON) KEY NORMAL

RV KEY

LXPI (MKR)

RING CONTINUITY TEST

TIP CONTINUITY TEST

DCT (MKR)

CON TUBE (MKR)

CON (MKR)

CON

CONI (MKR)

GTI (MKR)

LC (MKR)

26 MSEC TEST TONE TIMING

NO TONE

TTP (MKR)

TTM

TRC (MKR)

DCT

26 MSEC

MOI

TTM (MKR)

DCTI (MKR)

MC (SOR)

CLK (MKR)

OBS2 (MKR)

TO SC 7
TGTO, 13K3

F, 12W 10

12N 40

F (TRK)

FA/FB (TL)

LC- (TL)

S (TRK)

S (LINE)

LV (TL)

DCT (MKR)

FAK/FBK (MKR)

SL (MKR)

TO SC 9
LK2, 14X14

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE
70A RJF

70

MASTER TEST CONTROL CIRCUIT

SD-25800-01-E12

BELL TELEPHONE LABORATORIES INCORPORATED

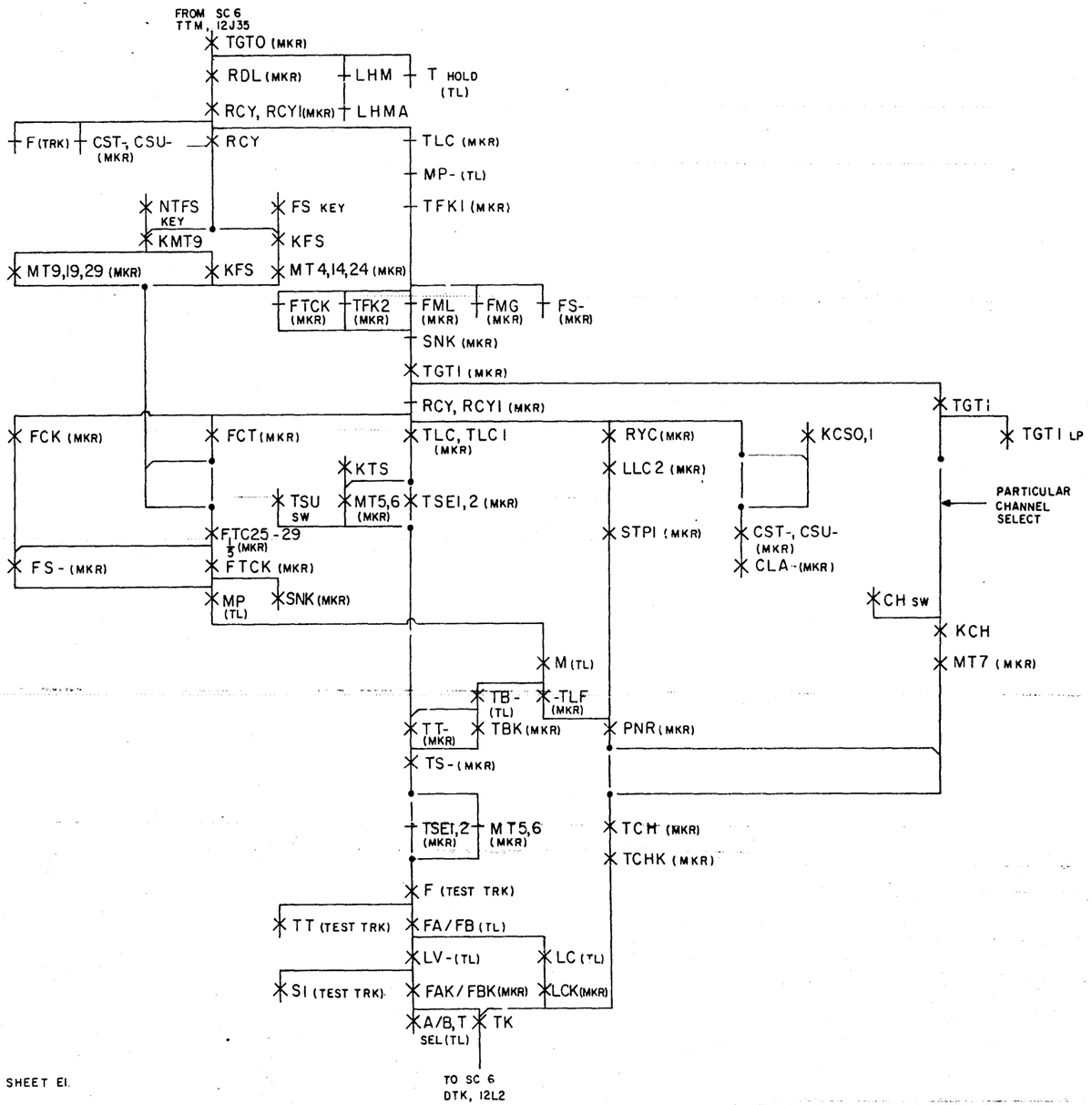
2

6S

SD-25800-01-E12

SC 7

ACD DIAL TONE CLASS TEST CALL
(TRANSMISSION TEST RECYCLE)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

SD-25800-01-E13

DRAWING ISSUE: 70A | AF

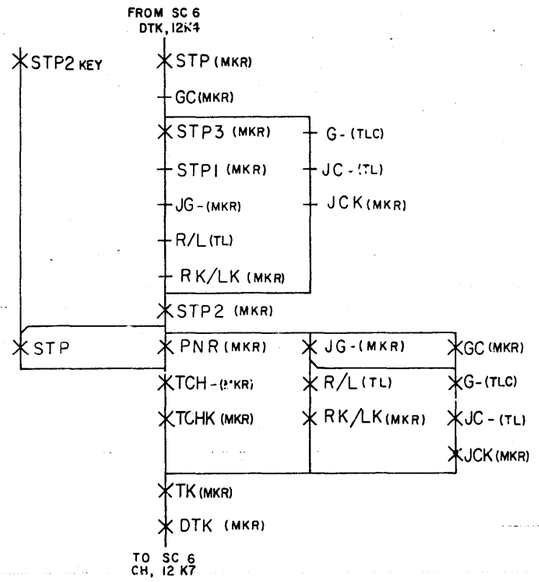
70

MASTER TEST CONTROL CIRCUIT (2)

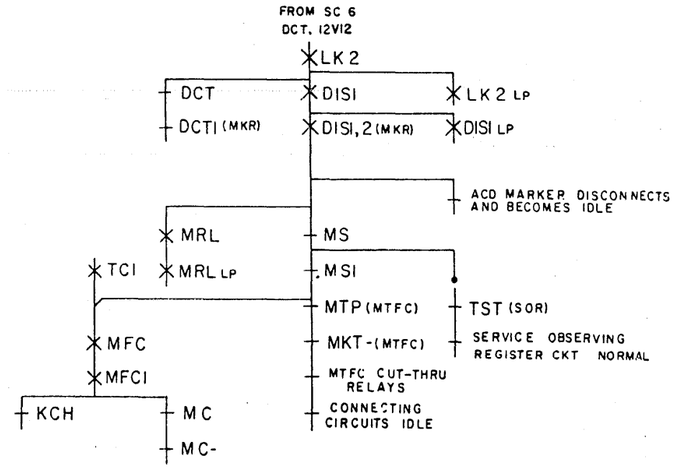
BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-E13

SC 8
JUNCTOR GROUP
STEPPING



SC 9
ACD DIAL TONE CLASS TEST CALL
(DISCONNECT)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE
70A

70

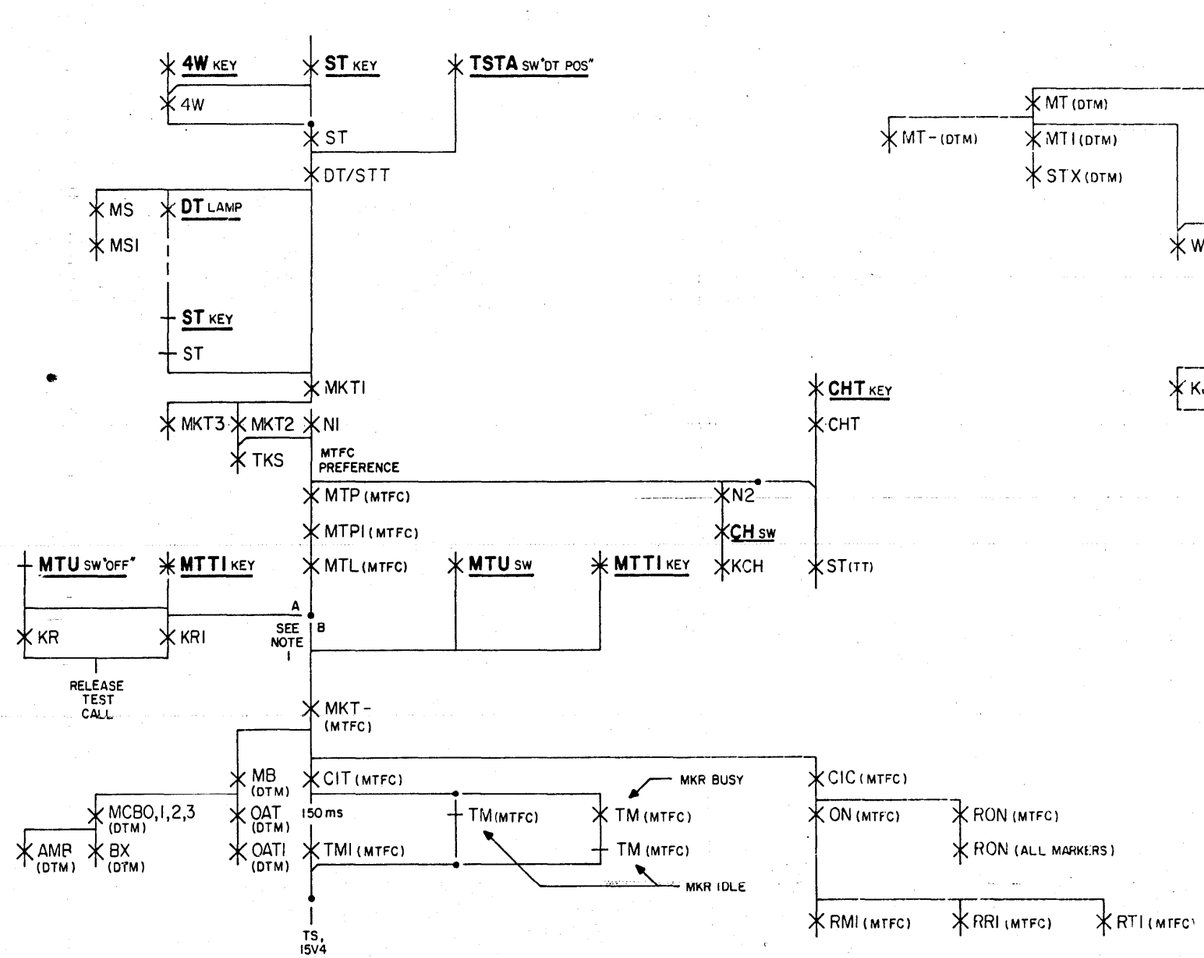
MASTER TEST CONTROL CIRCUIT
(2)
SD-25800-01-E14

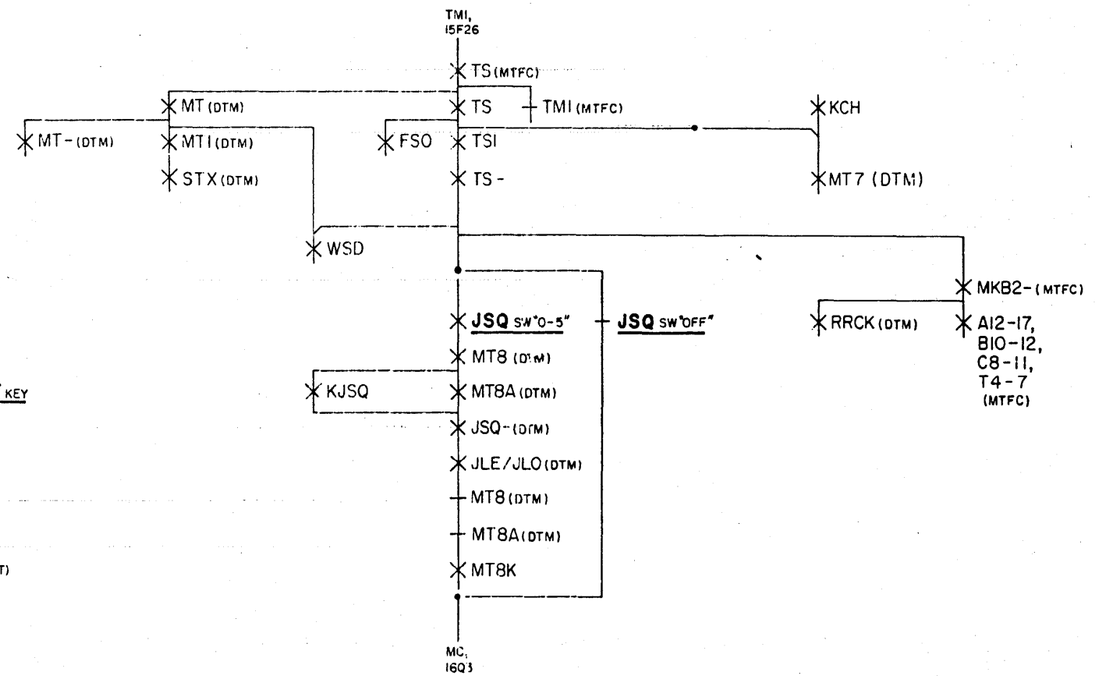
BELL TELEPHONE LABORATORIES
INCORPORATED
6S

SD-25800-01-E14

PART OF SC 10

DIAL TONE CLASS MARKER TEST





NOTES:

1. A = MARKER NOT SELECTED OR UNEQUIPPED
   B = MARKER SELECTED AND EQUIPPED

2. LEGEND OF CIRCUIT ABBREVIATIONS USED ON THIS SEQUENCE CHART:
   (DTM) DIAL TONE MARKER CKT (SD-26001-01)
   (JL&K) MASTER TEST FRAME JACK, LAMP AND KEY CKT (SD-25762-01)
   (LLLMCC) LINE, LINE LINK AND MARKER CONNECTOR CONTROL CKT (SD-26030-01)
   (LLC) LINE LINK CONNECTOR CKT (SD-26031-01)
   (MTFC) MASTER TEST FRAME CONNECTOR CKT (SD-27718-01)
   (OR) ORIGINATING REGISTER CKT (SD-25040-01)
   (PC&MB) PREFFERENCE CONTROL AND MAKE BUSY CKT (SD-26039-01)
   (TL) TRUNK LINK CKT (SD-26032-01)
   (TLC) TRUNK LINK CONNECTOR CKT (SD-26033-01)
   (TRCT) TROUBLE RECORDER CONTROL AND TEST CKT (SD-25572-01)
   (TT) TRUNK TEST CKT (SD-25918-01)

DRAWING ISSUE
76D
80D
81A

81

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E15

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-E15

PART OF SC 10

DIAL TONE CLASS MARKER TEST
(SEE NOTE 1)
MT8K,
15V18

MC
TM (DTM) KPD KPDI MC-
RG SW CSU SW CST SW CRU SW TR2 KEY
KCS4 KCS0 KCSI KCS2 TR2A (DTM) TFKI 16AB18 TR2B (DTM)
TM (DTM)
TMS (DTM)
START WORK TIMER
D/MF/MLF (DTM)
CKGI,2 (DTM)
GTLI,2 (DTM)
KVGI,2
ONX (DTM)
RCTB (DTM) DTK, 17AA4
TLC (DTM)
VGU SW
VGTI KEY
KFTU
STF/ PR/ TTF (DTM)
TSEI,2
-TLF/ -TFA (DTM)
GTL
FU SW
FT SW
STPI (DTM)
JG-(DTM)
VGGI,2 (DTM)
VFG (DTM)
VGTO-11 (DTM)
HGG (DTM)
RYC (DTM)
LLCI,2 (DTM)
LHT
XLH
2W,2WO,2WIO (DTM)
BCO,BCIO (DTM)
BC20 (DTM)
FMG- (DTM)
FM- (DTM)
FMK (DTM)
FMG (DTM)
D MF
FCDO, FCDIO, FCD20 (DTM)
FCMO, FCMIO, FCM20 (DTM)
JSO/ JSE (DTM)
GK (DTM)
VGR (DTM)
VTK (DTM)
OCI (DTM)
OC (DTM)
TCI
TCI LAMP
MFC, 21H14
STPI (DTM)
SLRK (DTM)
SL
CH-, 17AA6
GC/ GCA (DTM)
FUO,1,2,4,7 2/5 (DTM)
FTO-3 2/4 (DTM)
FUT- (DTM)
FTA-, FTB-, FTT- (DTM)
P-/PA (DTM)
1758, 1708
HG SW
KHGT
VGGI,2 (DTM)
VTKI (DTM)
VGB- (LLLMCC)
PNR (DTM)
TCH- (DTM)
TCHK (DTM)
M (TLC)
FRAME IDLE
FB- (DTM)
FRAME BUSY
TLC (DTM)
M (TLC)
FB- (DTM)
FS- (DTM)
FCK (DTM)
FTC (DTM)
TBT (DTM)
FTCK, FTCKI (DTM)
FTCK
R,ER, SER/ L,EL, SEL (TL)
JC- (TL)
JCK (DTM)
CHT- (DTM) (BUSY JUNCTORS)
CHT KEY
MP-/E- (PC & MB)
M (TLC)
M-- (TLC)
TBT (DTM)
TMS (DTM)
STOP WORK TIMER
RK/LK 16A19
TR2B 16A86
SNK (DTM)
SFT (DTM)
TFKI (DTM)
CK
TFK2 (DTM)
FUT- (DTM)
FTT- (DTM)
RK/ LK (DTM)
TFKI 16AA18
HGTO-9 (DTM)
HGR (DTM)
HTK (DTM)
HGG (DTM)
HTKI (DTM)
FUT- (DTM)
FTT- (DTM)
TFKI (DTM)
LLCI (DTM)
MF (PC & MB)
M-- (LLLMCC)
LFK (DTM)
TT- (DTM) MAKI (DTM)
TB- (TL)
TBK (DTM)
TS- (DTM)
TSEI,2 (DTM)
TST (TL)
TT- (DTM)
TSE
OTS (DTM)
ETS (DTM)
OT (DTM)
TS-
F (OR)
FA- (TL)
FI (OR)
LV- (TL)
SI (OR)
ON (OR)
TMA (OR)
TMB (OR)
FAK (DTM)
LC- (TL)
LCK (DTM)
CHT- (DTM) (BUSY TRUNK LINKS)
TA SEL (TL)
MF D
FCMO, FCMIO, FCM20 (DTM)
FCDO, FCDIO, FCD20 (DTM)
FCK (DTM)
FTC- (DTM)
FTCKI (DTM)
FM-, FMG- (DTM)
FMK (DTM)
FMG (DTM)
FM-, FMG- (DTM)
FMK (DTM)
FML (DTM)
BCO, BCIO, BC20 (DTM)
FB- (DTM)
7Q/ RQ (DTM)
20F/ 40F/ 60F (DTM)
VF SW
KV
VFTO-9 (DTM)
FR (DTM)
SNK (DTM)
VFG (DTM)
FTKI (DTM)
LB KEY
LHMT
LHMT LAMP
CS-- 17A4
TK, 17AA2

NOTES:
1. FOR CKT ABBREVIATIONS, SEE LEGEND ON SHEET E15.

DRAWING ISSUE
7SD
80D
81A

81

MASTER TEST CONTROL CIRCUIT
2
SD-25800-01-E16
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-E16

PART OF SC 10

DIAL TONE CLASS MARKER TEST
(SEE NOTE 1)

DRAWING ISSUE
760
800

FTKI, 16G30

CSR- (DTM)
CSGA/B/C (DTM)
CSU- (DTM)
CST- (DTM)

CRU- 2/5 (OR)
CGA/B/C (OR)
CSA- (DTM)
CU- 2/5 (OR)
CT- 2/5 (OR)

CST-
CSU-
CSGA/B/C
CSR-

CUKI,2 (DTM)
CSTK 1,2 (DTM)
CSRK 1,2 (DTM)
CGSK (DTM)

FT-, 16G12
FU-, 16E12

CLLI,2 (DTM)
LL- 2/5 (OR)
HGCI,2 (DTM)
HG-(OR) HG'- 2/5
VGCI,2 (DTM)
VG-(OR) VG'- 2/6
VFC (DTM)
VF-(OR) VF'- 1/5

TCHK, 16Q15
ONX, 16C6
SLRK, 16R11

TK (DTM)
DTK (DTM)
CH- (DTM)
CHA (DTM)
TGCK (DTM)
JGCK (DTM)
J-SEL (TL)
L-,LJ-SEL (L,LL & MC)

RYT (DTM)
TMS (DTM)
RYTI (DTM)
RYT (DTM)
TMS (DTM)

MT7 (DTM)
TCM- (DTM)
CHT- (DTM)

LB KEY

GTL3 (DTM)
LGCK (DTM)
GTU (DTM)

26-30 ms 2kΩ BIAS
40.5-50 ms 6.5kΩ BIAS

HMT (DTM)

TAO (DTM)
MPBX (DTM)
RV (DTM)
MAN (DTM)
RV(OR)

FT'-,FU'- 2/5
FT-,FU- 2/3 (OR)

AO (DTM)
AOMR (DTM)
2P/CN (DTM)
PBX (DTM)
2PMR (DTM)
PBX5/PLN/AC8 (DTM)
MCN (DTM)
PLN5 (DTM)
MAN (DTM)
MPBX (DTM)

PBX
2P/CN (OR)
2P (DTM)
2P (OR)
5DG/4DG/AC8
PBX5/PLN/DD8 (OR)
MAN (DTM)
CN (DTM)
MAN (OR)
CN (OR)
PBX5 (DTM)
PLN (DTM)
4DG
PLN (CR)
5DG
PBX5 (OR)
MAN (OR)

1,2 2 1,2 1 2 1 1 1 2 1 1 1 2

1 DVO (DTM)
DVA (DTM)
2 NPBX (DTM)
DD9 (OR)

RKI, 2 (DTM)
RK3 (DTM)

L8 KEY

GTL
GTLI (DTM)
GTL2 (DTM)
HMSI (DTM)
18J2

HMTI (DTM)
GK (DTM)
FR (DTM)
HGR (DTM)
VGR (DTM)

NOTES:
1. FOR CKT ABBREVIATIONS, SEE LEGEND ON SHEET E15.

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-E17

80

SD-25800-01-E17

PART OF SC 10

DIAL TONE CLASS MARKER TEST
(SEE NOTES 1&2)

TIMED TO RELEASE SINCE PREVIOUS CALL

HTR (DTM)

HMSI, 17T37

HMSI, HMSA — LIGHT TRAFFIC — HEAVY TRAFFIC

OPERATED FROM PREVIOUS CALL

HTR

J-HOLD (LLLMCC) · J-HOLD (TLC) · LLJ · LLJ LAMP · LLT (DTM) · JXP (DTM) · LLTA (DTM) · JXPI (DTM)

JXP (DTM) · JXPA (DTM) · JGCK (DTM) · (SL)

T-HOLD (TLC) · SL (DTM) · SLA (DTM) · TLH · TLH LAMP · RYTI (DTM) · TGCK (DTM)

LGCK (DTM)

LXP (DTM) · LXPA (DTM) · LHMT · LHMT LAMP · LHM · LHMA

J-HOLD (LLLMCC) · LXP (DTM) · LXPI (DTM) · J-HOLD (TL) · LLT (DTM) · JXP (DTM) · LLTA (DTM)

LLJ · LLJ LAMP · JXP (DTM) · JXPA (DTM) · JXPI (DTM) · JGCK (DTM)

T-HOLD (TL) · SL (DTM) · SLA (DTM) · SL

TLH · TLH LAMP · RYTI (DTM) · TGCK (DTM)

LTR (DTM)

GLH (DTM) · RYT (DTM)

GLHI (DTM) · LHT (DTM) · LXPI · XLH

GTI (DTM)

FROM DCT, 18E7

DCT (DTM)

SLRK (DTM) · REC KEY · TRS KEY · TRS (DTM) · SEE LOCATIONS 17V35 & 17AE11

LB KEY · LGCK CANNOT OPERATE · HMSI CANNOT OPERATE · WT (DTM) · TRT (DTM) · TRI (DTM)

LHMT · LGCK (DTM) · LHM · LXP (DTM) · RYTI (DTM)

LHMT LAMP · LHMA · LXPA (DTM)

A · CON TUBE (DTM) · LXP (DTM)

CON (DTM) · LXPI (DTM)

CON · CONI (DTM)

DCT

TRS KEY OPERATED

FROM TRR, 20J24

REC KEY

REC

TI · TRR (DTM)

MOI, 20J4

TROUBLE RECORDER IDLE

TRT (DTM) · TRST (DTM)

TROUBLE RECORDER BUSY

TRST (DTM) · MN2/T-(JL8K)

MN2/T-(JL8K) · TMS (DTM) · RRC (MTFC) · MKAZ-(MTFC) · STR2 (TRCT) · MPRI-(MTFC)

A · GTI (DTM)

GT2 · CON (DTM)

TO DCT, 18P11

DCT (DTM) · RYT (DTM)

SR

RCTB (DTM)

RYTI (DTM) · JLO (DTM) · B · B · JLO (DTM)

RCTA (DTM) · RCTA (DTM)

C · D

CON TUBE (DTM)

CON (DTM)

CONI (DTM) · CON

GTI (DTM) · WT (DTM)

CON (DTM) · GT2

TO DCT, 18P11

TAKE RECORD

TRC (TRCT)

TRC (MTFC)

STR2 (TRCT · TRCI (MTFC)

RM (MTFC) · RR (MTFC) · RT (MTFC)

TRC, 20G5

MCA2-, 20K4

TRB (DTM) — LB KEY OPERATED

TRL (DTM)

TRLA (DTM)

TRL

MFC, 21H14 · TRL LAMP

NOTES:

1. FOR LEGEND OF CIRCUIT ABBREVIATIONS, SEE SHEET E15.
2. A= CONTINUITY TEST SUCCESSFUL.
   B= CONTINUITY TEST FAILURE TIP AND RING LEADS REVERSED.
   C= CONTINUITY TEST SUCCESSFUL WITH TIP AND RING LEADS REVERSED.
   D= CONTINUITY TEST FAILURE WITH TIP AND RING LEADS REVERSED, TIME OUT.

DRAWING ISSUE 80D

80

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-E18

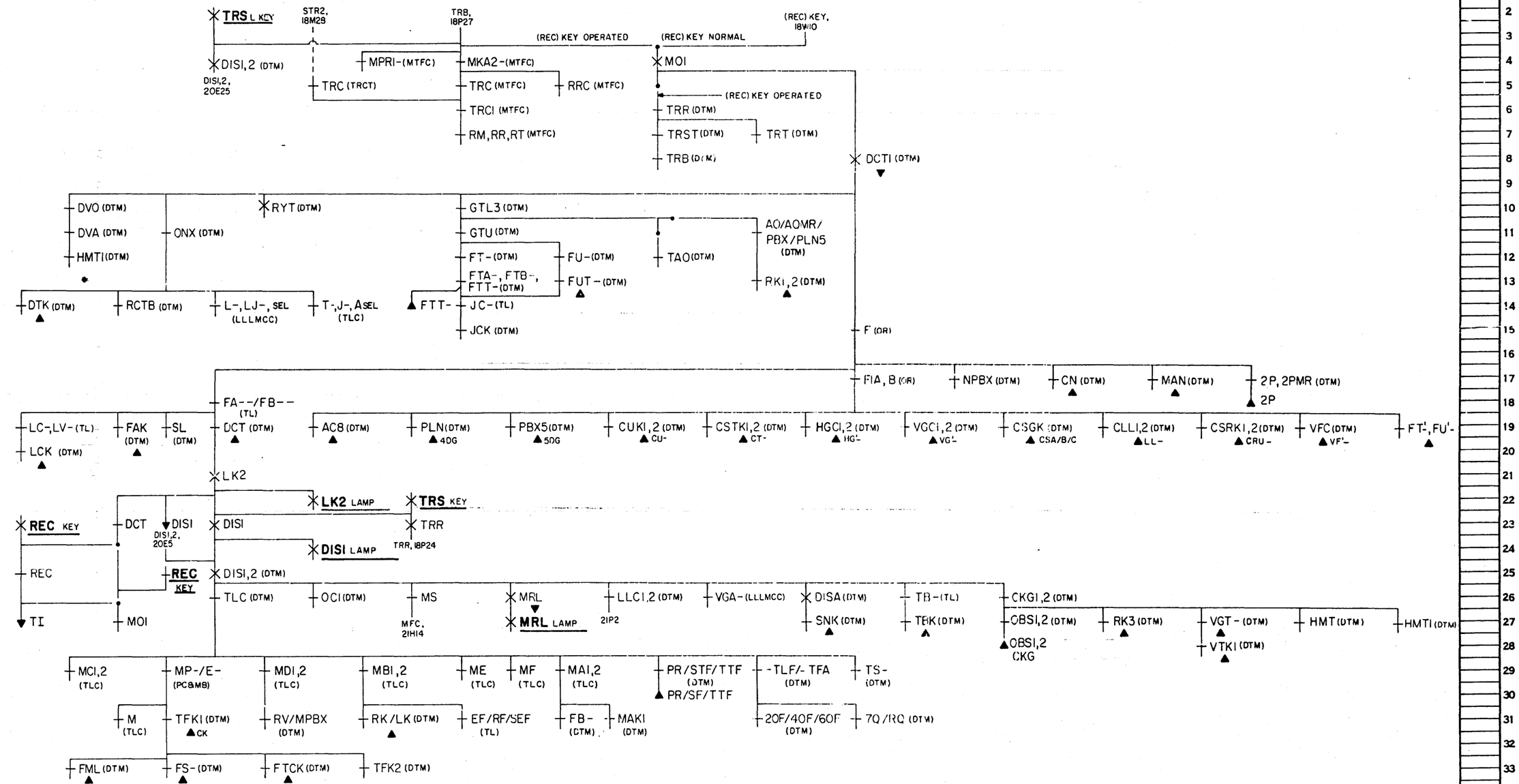
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-E18

PART OF SC 10

DIAL TONE CLASS MARKER TEST
(SEE NOTE 1)



NOTES:
1. FOR CKT ABBREVIATIONS, SEE LEGEND ON SHEET E15.

DRAWING ISSUE
76D
80D

80

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E20

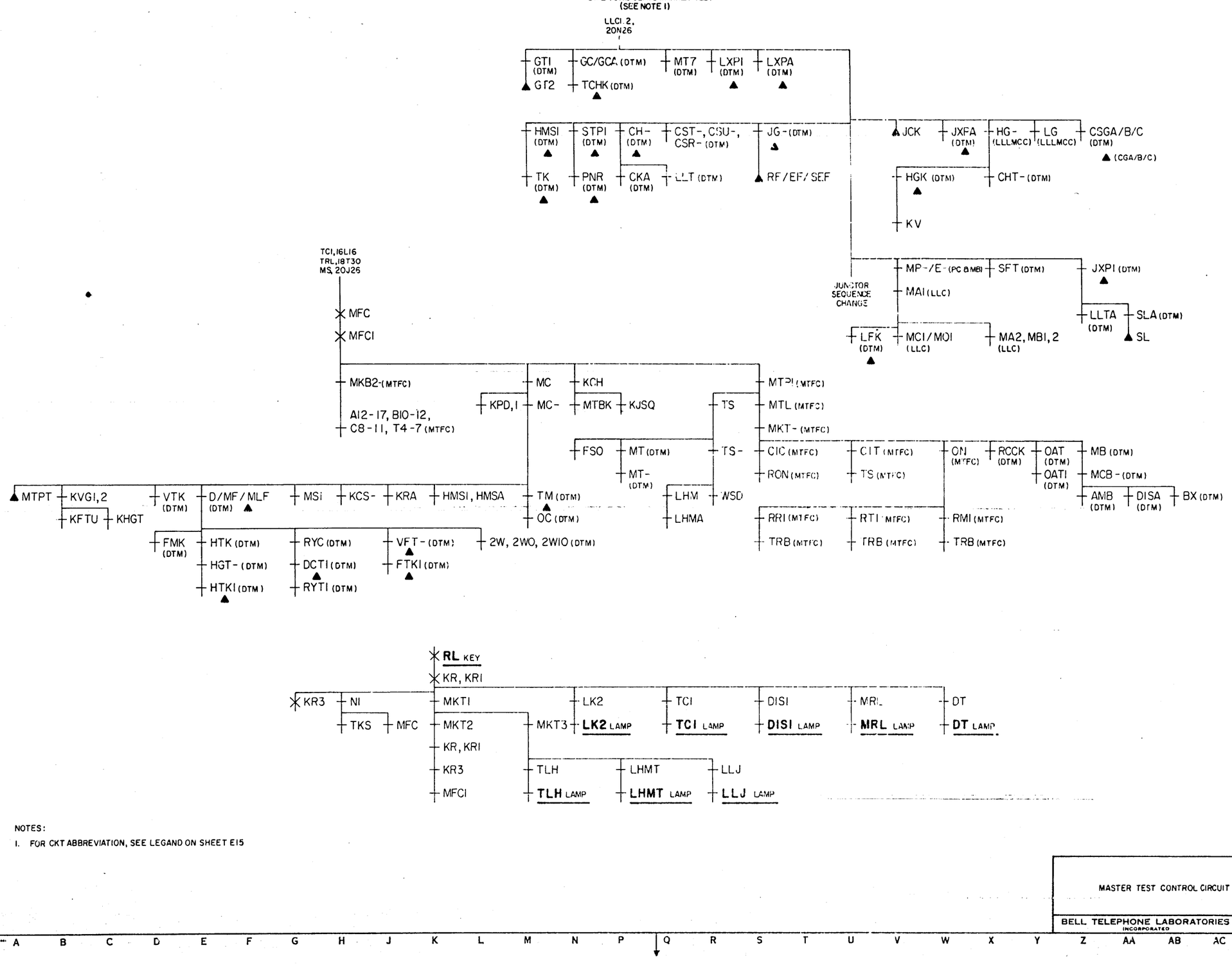
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-E20

PART OF SC 10

DIAL TONE CLASS MARKER TEST
(SEE NOTE 1)



NOTES:

1. FOR CKT ABBREVIATION, SEE LEGAND ON SHEET E15

DRAWING ISSUE
76D
80D

80

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E21

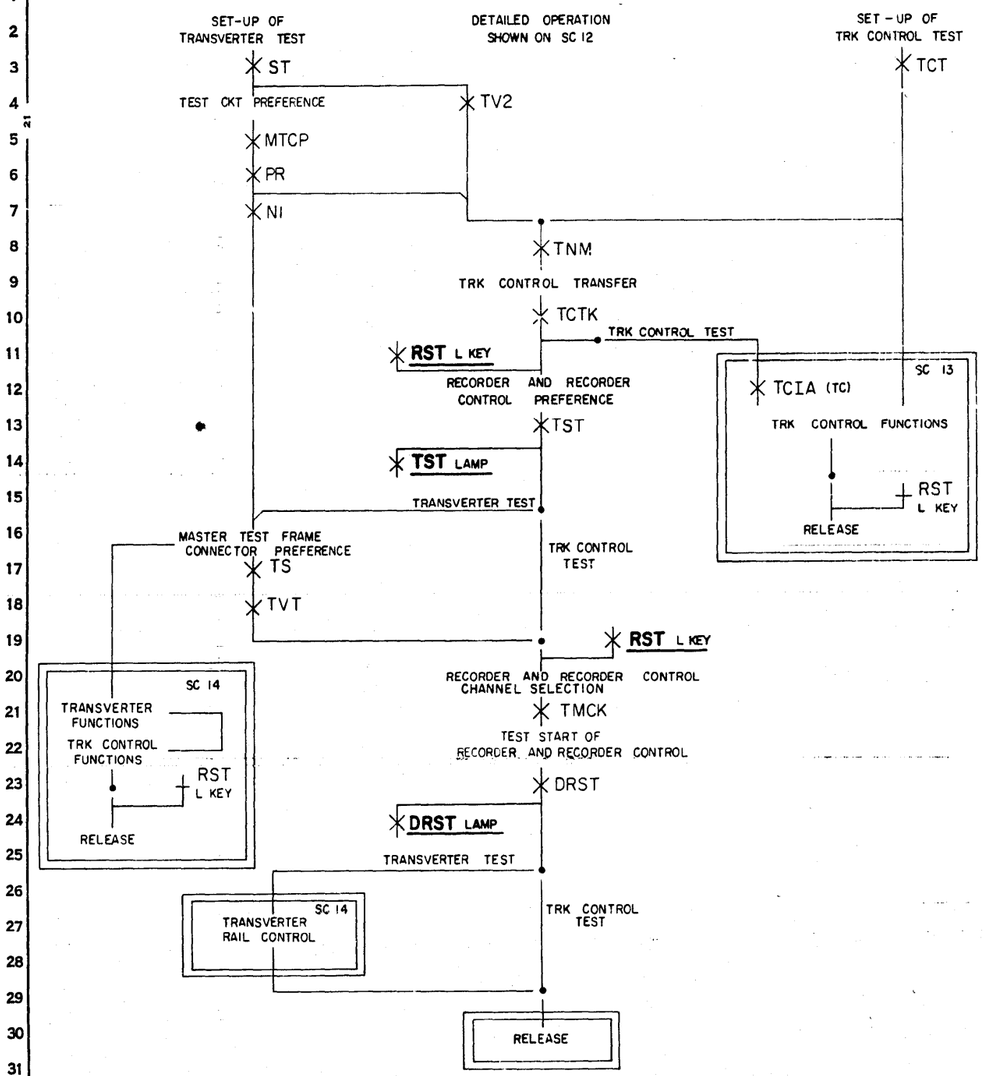
BELL TELEPHONE LABORATORIES INCORPORATED

PAGE 65

SD-25800-01-E21

SC 11

MAGNETIC TAPE RECORDING TEST CALL PROGRESSION (SIMPLIFIED)



NOTES:

1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 780 CB

78

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E22

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E22

SC 12

MAGNETIC TAPE RECORDING TEST START AND PREFERENCES

DRAWING ISSUE
78D CB
83A CB

TRANSVERTER TEST
TST B SW
-TVT
ST NL KEY
ST
ST NL KEY
TV
TVI
TV2
TV3, TV4
IF NO OTHER TEST CKT WHICH USE THE MTFC ARE IN OPERATION
MTCP
PR
NI
23S2
SC 14 NI, 25H8
TNM
TNS- (TC)
ALL NORMAL
PREVENTS OPERATION OF
TCTN
EMERGENCY TRK CONTROL CKT SELECTED
TRANSFER OF SELECTED TRK CONTROL CKT
TNS- (TC)
TND
TNDK
TNM
TND
TCTK
TCTK LAMP
RST L KEY
TCTT
SP L KEY
SP L KEY
RECORDER & RECORDER CONTROL CHECKS THAT BUFFER CKT IS NOT ATTACHED
TVTI (R&RC)
BY (R&RC)
RECORDER & RECORDER CONTROL CHECKS THAT ELECTRONIC TEST CKT IS NOT USED IN RECORDER & RECORDER CONTROL
TST (R & RC)
TVT (R&RC)
TST
TST LAMP
23Y2, SC14 TST, 23C8

TRK CONTROL TEST
ST NL KEY
ANSE L KEY / DISE L KEY
TKCT
TCT
TCTI
ANY TRK CONTROL CKT MANUALLY TRANSFERRED
TNS - (TC)
TND
TNDK
TNM
TND
IF MANUALLY TRANSFERRED TRK CONTROL CKT IS THE SAME AS SELECTED ONE
IF MANUALLY TRANSFERRED TRK CONTROL CKT IS NOT THE SAME AS SELECTED ONE; (TCTK) DOES NOT OPERATE
TCTK
NRST
NRST LAMP
TO SC 13 RL, 24S3 AND TO SC 14, 27F23

RST (TC)
CB, 23U19 / CTR, 23AB20
NRST
TO SC 13 RL, 24S3
NRST LAMP

NI, 23C11
RST L KEY
RST L KEY
TST, 23038
TRK CONTROL TEST
TO SC 13 24E1
TRK CONTROL TEST
TTP (MTFC)
MASTER TEST FRAME CONNECTOR PREFERENCE
TVT-(MTFC)
TRANSVERTER SEIZED BY MTFC
TS (MTFC)
TS
TVT
TVTI
TVT (TV)
TSI-13
CHS L KEY / DR L KEY
RST L KEY
RCH- L KEY
CHS L KEY
SELECTED CHANNEL AVAILABLE
DR L KEY
RCH- L KEY
SELECTED CHANNELS MADE BUSY
-CB- (R & RC)
CB
ALL CHANNELS AVAILABLE OR SELECTED CHANNEL IS MADE BUSY OR CHANNEL 2 IS SELECTED
CHANNEL 0 SELECTED AND CHANNEL 1 MADE BUSY OR CHANNEL 1 SELECTED AND CHANNEL 0 MADE BUSY
CBY LAMP
NRST, 23N23
-TP (R & RC)
CTR
CTR LAMP
BRST (TV)
CHS L KEY (TV TEST)
NO SERVICE CALL IN SELECTED CHANNEL
DR L KEY
NRST, 23N23
-CB- (R & RC) MAKES BUSY SELECTED CHANNEL
CS
CS LAMP
TRST
-CB- (R & RC) ALL EXCEPT SELECTED CHANNEL
-TCK- (R & RC)
TMCK
BRST (TV)
START IN RECORDER & RECORDER CONTROL USING TEST START LEAD (TRST) FOR TRK CONTROL (TST) FOR TRANSVERTER
RST (TC)
TRSA
TRSA LAMP
START IN RECORDER & RECORDER CONTROL USING SERVICE START LEAD
-TS-/-KS- (R & RC) (TV) (TC)
RECORDER & RECORDER CONTROL FUNCTIONS
CTV
CTV LAMP
CHS L KEY
-CB- (R & RC) ALLOWS SERVICE CALLS TO BE SERVED
DR L KEY
DRST
DRST LAMP
TO SC 13 24D18

NOTES:
1 FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E 1.

83

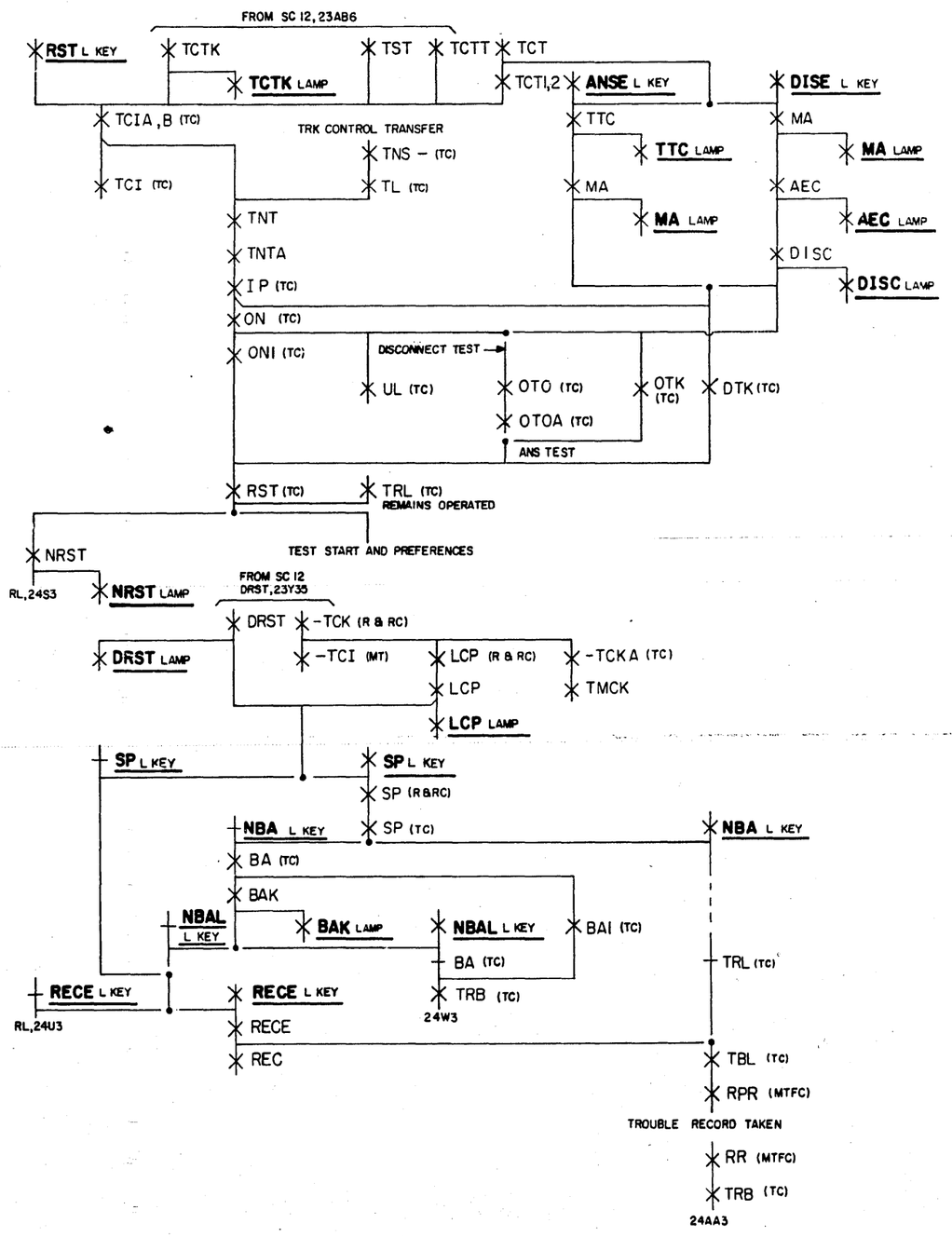
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E23

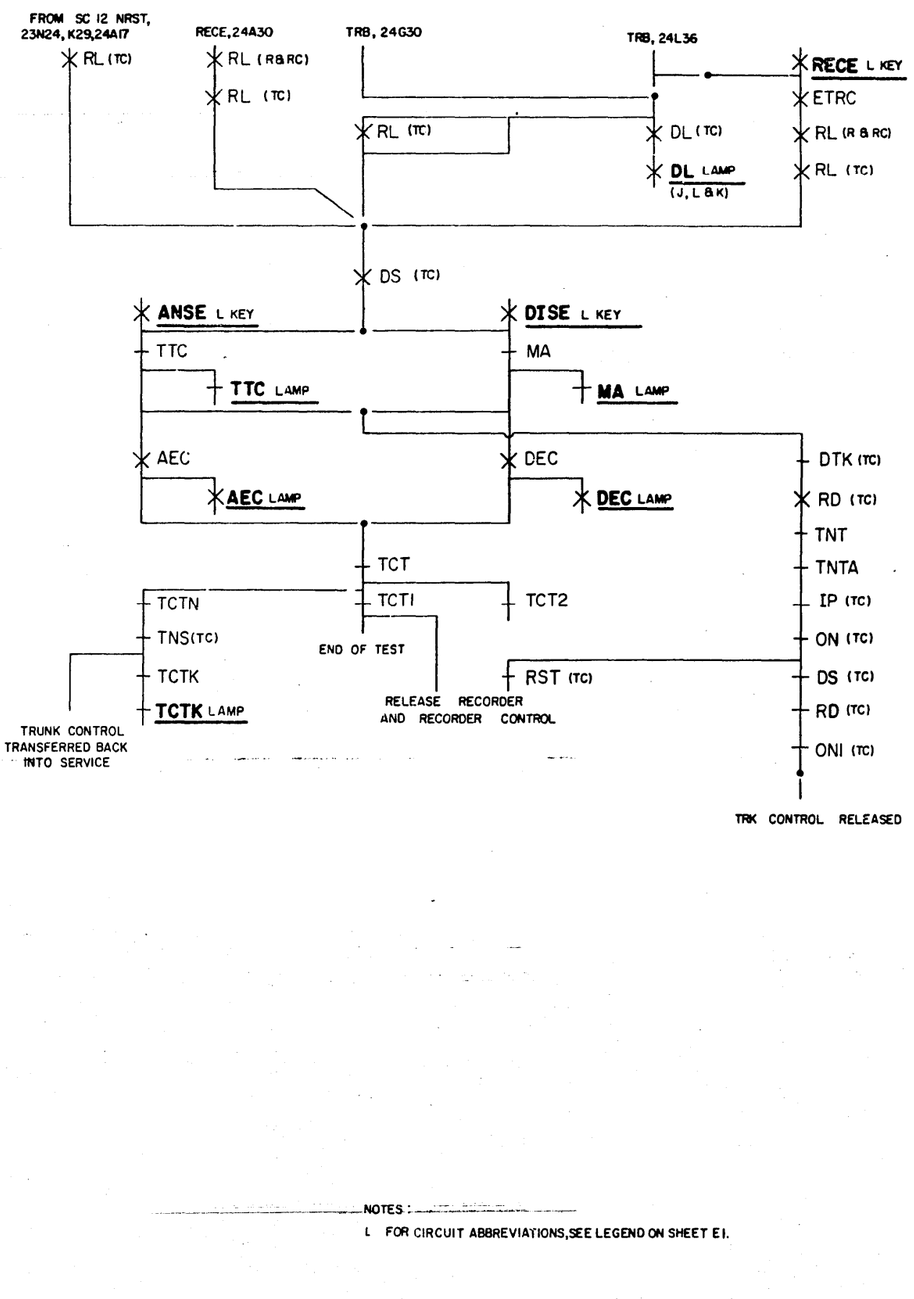
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E23

SC 13

MAGNETIC TAPE RECORDING TRUNK CONTROL TESTS





NOTES:

L FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE
78D
83A

ISSUE
89A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E24

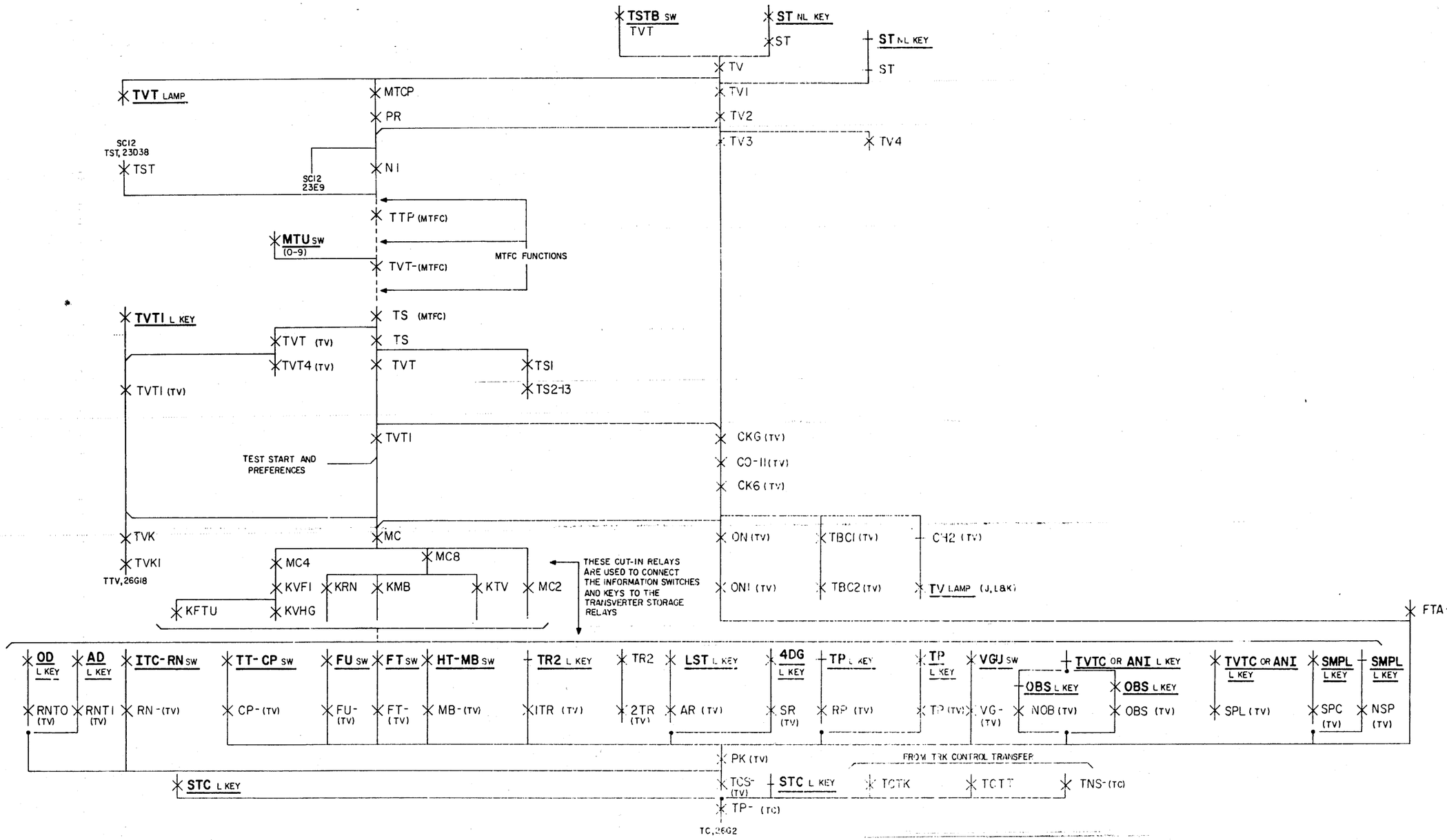
BELL TELEPHONE LABORATORIES INCORPORATED

PAGE 6S

SD-25800-01-E24

PART OF SC 14

MAGNETIC TAPE RECORDING
TRANSVERTER TEST-TVTI KEY OPERATED



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1

DRAWING ISSUE 7AD

78

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E25

BELL TELEPHONE LABORATORIES INCORPORATED — DRG SIZE 6S

SD-25800-01-E25

PART OF SC 14

MAGNETIC TAPE RECORDING
TRANSVERTER TEST - TVTI KEY OPERATED

TP-25035

TC (TC)
TV (TC)
TCI- (TC)
RD (TC)
TCIA,B (TC)
RCK (TC)
TVI (TC)
RK (TV)
ICK (TV)
ON (TC)
IC (TV)
ONI (TC)
ICK (TV)
RD (TC)
TVP (TRNSL)
TNT
VG (TV)
TNTA
(TRANSLATION OFT-, OFF-, TH-, HN-, T-, U-)
IR (TV)
UL (TC)
DNK (TV)
DTK (TC)
DNK
BRST (TV)
DNK LAMP

NRST
DRST
TVK1, 25C24
NRST LAMP
TVR, 27B5
26S17
DRST LAMP
TTV
LI (TV)
L2 (TV)
LI
L2
RALO L KEY
RALO L KEY
27J2
ARI (TV)
ARIA (TV)
AR
BRI (TV)
BRIA (TV)
BR
CRI (TV)
CRIA (TV)
CR
DRI (TV)
DRIA (TV)
DRI, 26Z2

RALI L KEY
RALI L KEY
DRI
DRI, A, 26G32
27J2
DRIA
LI (TV)
AR, BR, CR
LI
AR2 (TV)
AR2A (TV)
AR
BR2 (TV)
BR2A (TV)
BR
CR2 (TV)
CR2A (TV)
CR
DR2 (TV)
DR2A (TV)
DR2
RAL2 L KEY
RAL2 L KEY
RALO-2 L KEY
26CI8
27J2
RAL3 L KEY
RAL3 L KEY
DR2A
L2 (TV)
AR, BR, CR
L2
TRANSVERTER FUNCTIONS
MUD (TV)
FROM ANY RAIL CONTROL RELAY IN TRANSVERTER
BLD (TV)
LCP (TV)
LCP (R & RC)
LCP LAMP
LCP
27J2
27J2
AR3 (TV)
AR3A (TV)
AR
BR3 (TV)
BR3A (TV)
BR
CR3 (TV)
CR3A (TV)
CR
27CI4

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGENDS ON SHEET E1.

DRAWING ISSUE
78D
83A
ISSUE
89A

SD-25800-01-E26

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-E26
BELL TELEPHONE LABORATORIES INCORPORATED
6S

PART OF SC 14

MAGNETIC TAPE RECORDING
TRANSVERTER TEST-TVTI KEY OPERATED

26D22,S25J4
T18,W25

SP L KEY
RECE L KEY
REC L KEY
BRST (TV)
-SP (R&RC)
SP (TV)
LCP
RECE
REC
TRA (TV)
DL (TV)
TR (TV)
TVP (MTFC)
RL (R&RC)
NBA L KEY
BA (TV)
BAK
BAI (TV)
OPENS START TO RECORDER & RECORDER CONTROL
BAK LAMP
NBAL L KEY
TROUBLE RECORD TAKEN
NRST, 26B17
CR, 26Z27
TVR (TV)
RRC (MTFC)
TRANSVERTER TIME-OUT
RST L KEY
TRB (TV)
DS (TC)
TTC
RCK (TC)
DTK (TC)
RD (TC)
TNT
TNTA
IR (TV)
ETRC
TTC LAMP
FROM SC 12 NRST, 23K29
DISI
DISI LAMP
27AA2
TNA
IR (TR&C)
OPENS START TO RECORDER & RECORDER CONTROL
XRD (TV)
X (TV)
TRL (TV)
TRL
MFC
TRL LAMP
TRK CONTROL RELEASED
TP-(TC)
TC-(TC)
ON (TC)
ONI (TC)
TVI (TC)
MFC2
MFCI
TCTN
TNS (TC)
TCTK
TCTK LAMP
TRUNK CONTROL TRANSFERRED BACK INTO SERVICE
TVT (R&RC)
MC
MC-
RELEASES OTHER CUT-IN RELAYS
TTP-(MTFC)
RELEASES MTFC
TVT
TVTI
OPENS START TO RECORDER & RECORDER CONTROL
DISI, 27D24
REC L KEY
RECE L KEY
REC L KEY
TROUBLE RECORD TAKEN
RRC (MTFC)
TRB (TV)
RL (TV)
MRL
MRL LAMP
TTC
IEC
IEC LAMP
MFC
MFCI
TVT
CK6 (TV)
TBCI (TV)
TBC2 (TV)
CKG (TV)
ON (TV)
ONI (TV)
TRANSVERTER RELEASED
CO-II (TV)
TVTI (TV)
TVK
EPR
MTCP
TVKI
MTFC AVAILABLE FOR OTHER USAGE
TTP-(MTFC)
RELEASES MTFC
TVT (TV)
TVT4 (TV)
RELEASES CHANNEL SELECTION

NOTES:

1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE
78D CB
83A CB
ISSUE 89A CB

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-E27
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-E27

SC 15

ROUTE ADVANCE CONTROL

DRAWING ISSUE 730

TEST START

RA- L KEY
RA SW
RAU SW

TKS
MC
MC6
MC4
KRA

MKR FUNCTIONS

OPEN OPERATE PATH OF (FTCK) REL OF MKR

28S19

MKR FUNCTIONS

RAVI (MKR)
RAV
RAPI
RAP2
RAP3
RAP4
RAP5
P3A
P4A
P5A
PSA

RA SW/RAU SW POS 0
RAT1 L KEY/RAT2 L KEY
RA SW/RAU SW POS 1
RA SW/RAU SW POS 2
RA SW/RAU SW POS 3
RA SW/RAU SW POS 4
RA SW/RAU SW POS 5
RA SW/RAU SW POS 6
RA SW/RAU SW POS 7

RA1 LAMP
RA2 LAMP
RA3 LAMP
RA4 LAMP
RA5 LAMP
RA6 LAMP
RA7 LAMP

RA0 L KEY
RA1 L KEY
RA2 L KEY
RA3 L KEY
RA4 L KEY
RA5 L KEY

RA1 LAMP
RA2 LAMP
RA3 LAMP
RA4 LAMP
RA5 LAMP

RAI'
RA2'
RA3'
RA4'
RA5'

28AD7

28R3

28T3

28V3

28A36

28C37

28D33

RA7 LAMP
RA8 LAMP
RA9 LAMP
RA10 LAMP
RA11 LAMP

RA SW/RAU SW POS 8
RA SW/RAU SW POS 9
RA SW POS 10
RAU SW POS 0
RA SW POS 11

RA9 LAMP
RAT1 LAMP
RAT2 LAMP
RAT3 LAMP
RA0 LAMP

RAT1/RAT2 L KEY

RATA
RATB

WITH (RAT1) OR (RAT2) L KEY OPERATED

28B5

NO. OF ROUTE ADVANCES EXCEEDS SWITCH SETTING

28K28

RA
FTCK (MKR)

MKR FUNCTIONS

NOTES.
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

78

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-E28

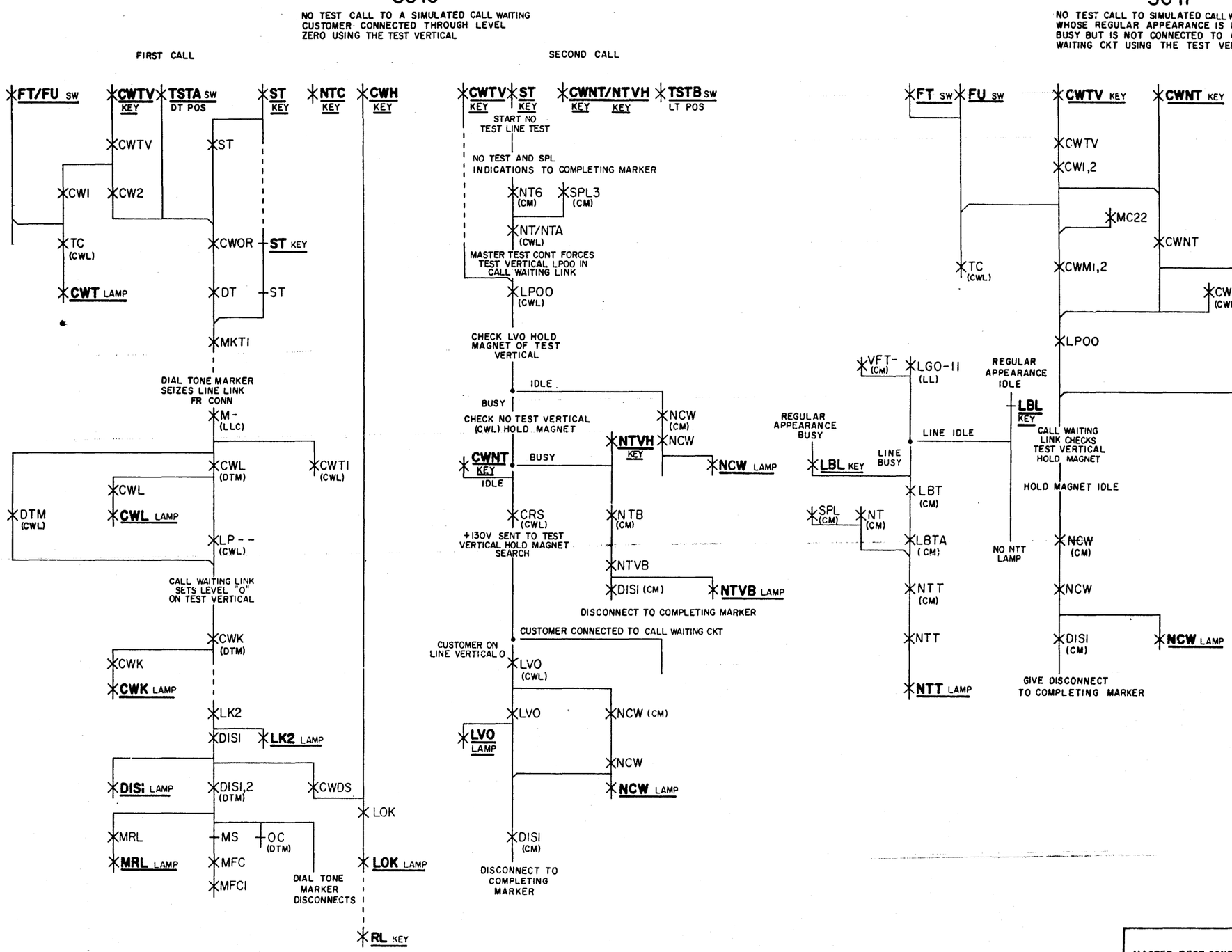
BELL TELEPHONE LABORATORIES INCORPORATED

PRINTED IN U.S.A.

SD-25800-01-E28

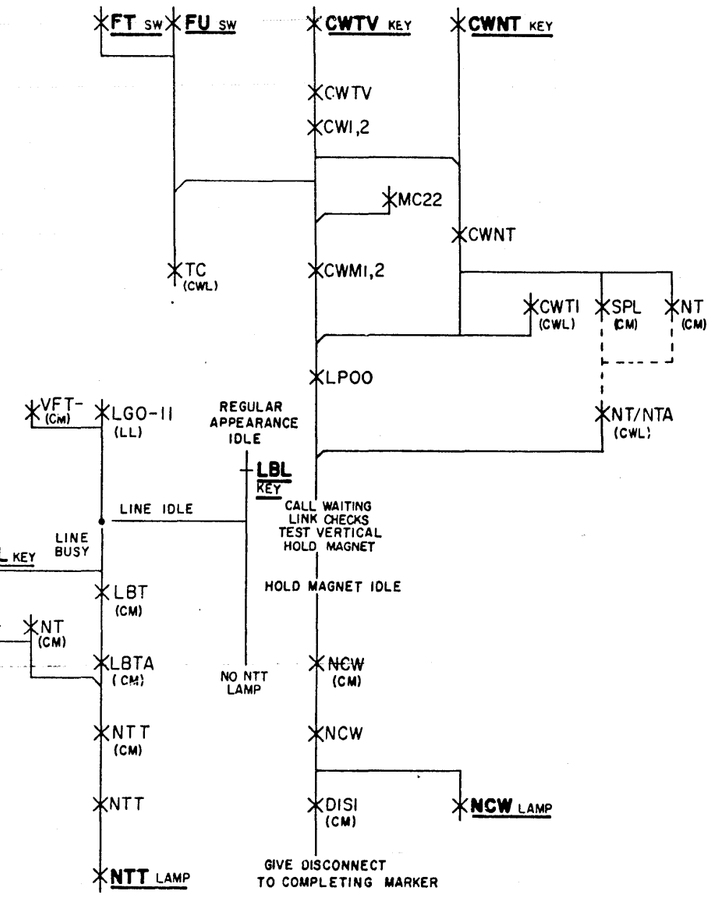
SC 16

NO TEST CALL TO A SIMULATED CALL WAITING CUSTOMER CONNECTED THROUGH LEVEL ZERO USING THE TEST VERTICAL



SC 17

NO TEST CALL TO SIMULATED CALL WAITING CUSTOMER WHOSE REGULAR APPEARANCE IS IDLE OR BUSY BUT IS NOT CONNECTED TO A CALL WAITING CKT USING THE TEST VERTICAL



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-E29

83

SD-25800-01-E29

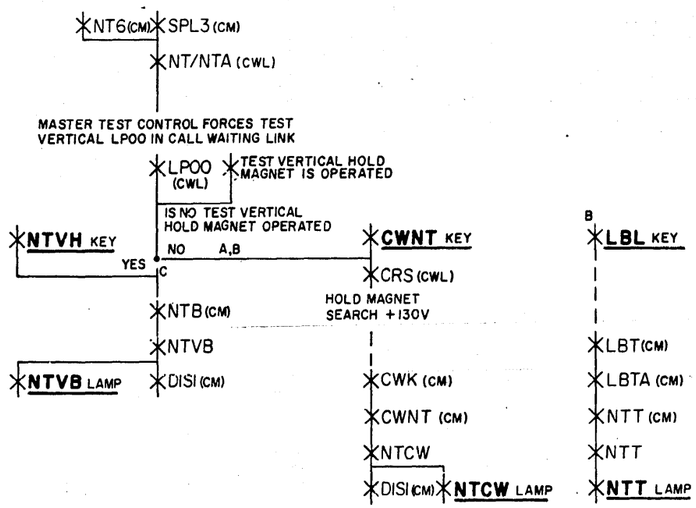
SC 18

NO TEST CALL TO A SIMULATED CALL WAITING CUSTOMER
CONNECTED TO A CALL WAITING CIRCUIT AND THE:

A= CALL WAITING LINK NO TEST VERTICAL IS IDLE WITH CUSTOMER REGULAR LINE LINK FRAME APPEARANCE IDLE.
B= CALL WAITING LINK NO TEST VERTICAL IS IDLE WITH CUSTOMER REGULAR LINE LINK FRAME APPEARANCE BUSY.
C= CALL WAITING LINK NO TEST VERTICAL IS BUSY, REGARDLESS OF CONDITION OF CUSTOMER REGULAR LINE LINK FRAME APPEARANCE

CONNECTIONS SET UP AS DESCRIBED IN
THE CIRCUIT DESCRIPTION UNDER CALL WAITING
CIRCUIT TESTS

START A NO TEST LINE TEST
FROM VOLTMETER TEST CIRCUIT



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

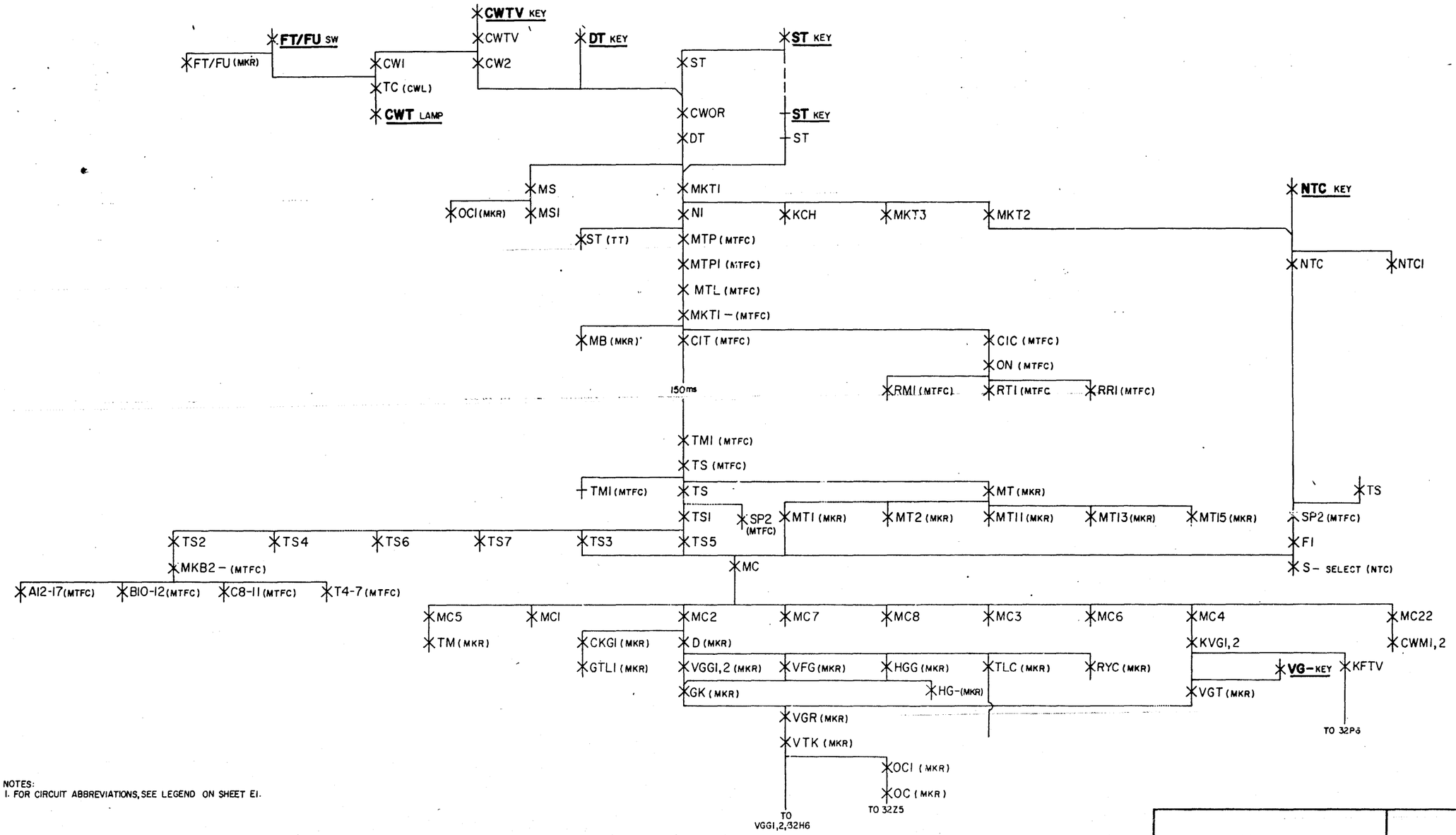
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E30

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E30

PART OF SC19

CALL WAITING SERVICE-TEST OF DIAL TONE MARKER
FUNCTIONS AND LEVEL "0" OPERATION (LIGHT TRAFFIC)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

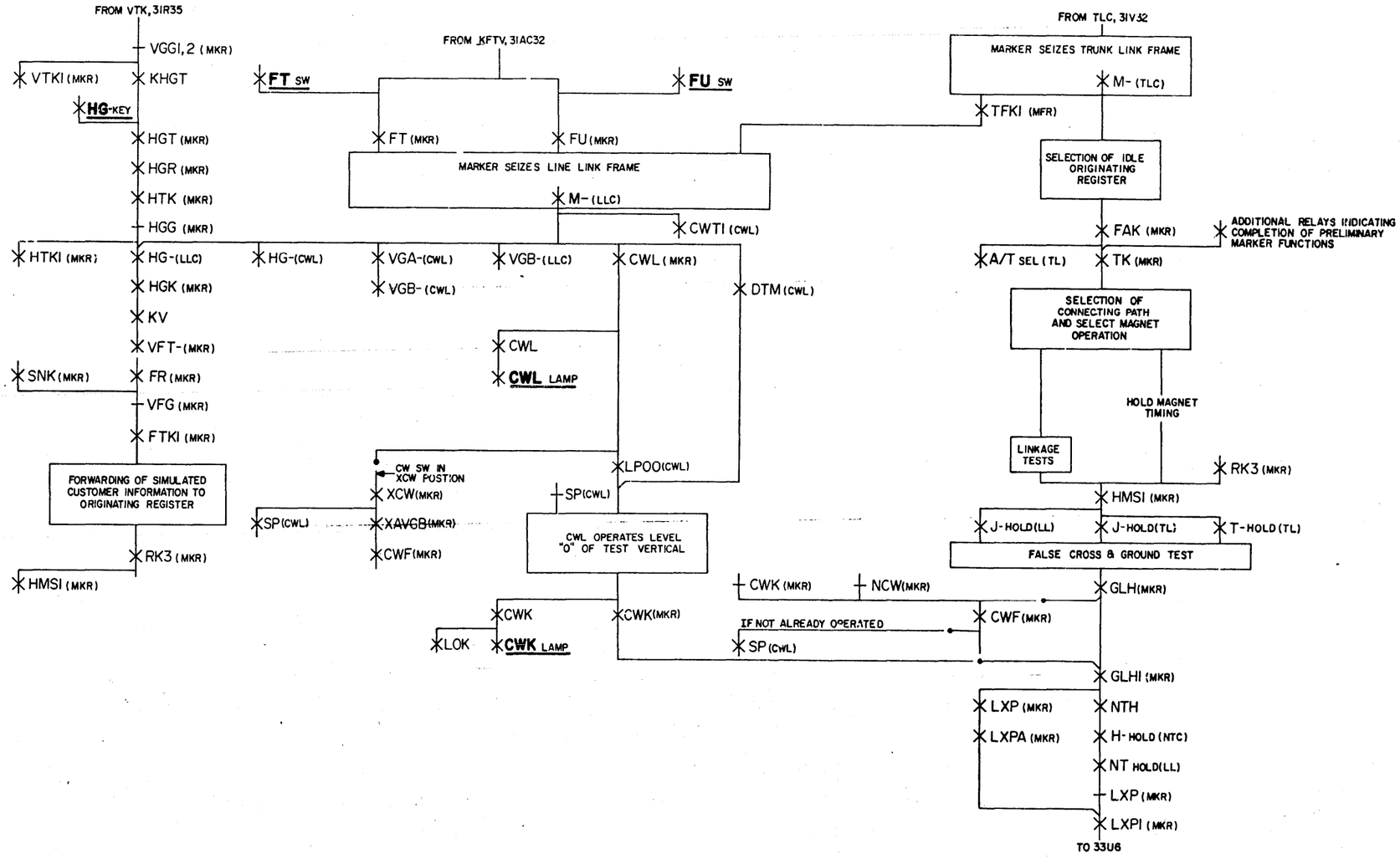
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E31

BELL TELEPHONE LABORATORIES

SD-25800-01-E31

PART OF SC 19

CALL WAITING SERVICE - TEST OF DIAL TONE
MARKER FUNCTIONS AND LEVEL "0" OPERATION
(LIGHT TRAFFIC)



NOTES
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2)

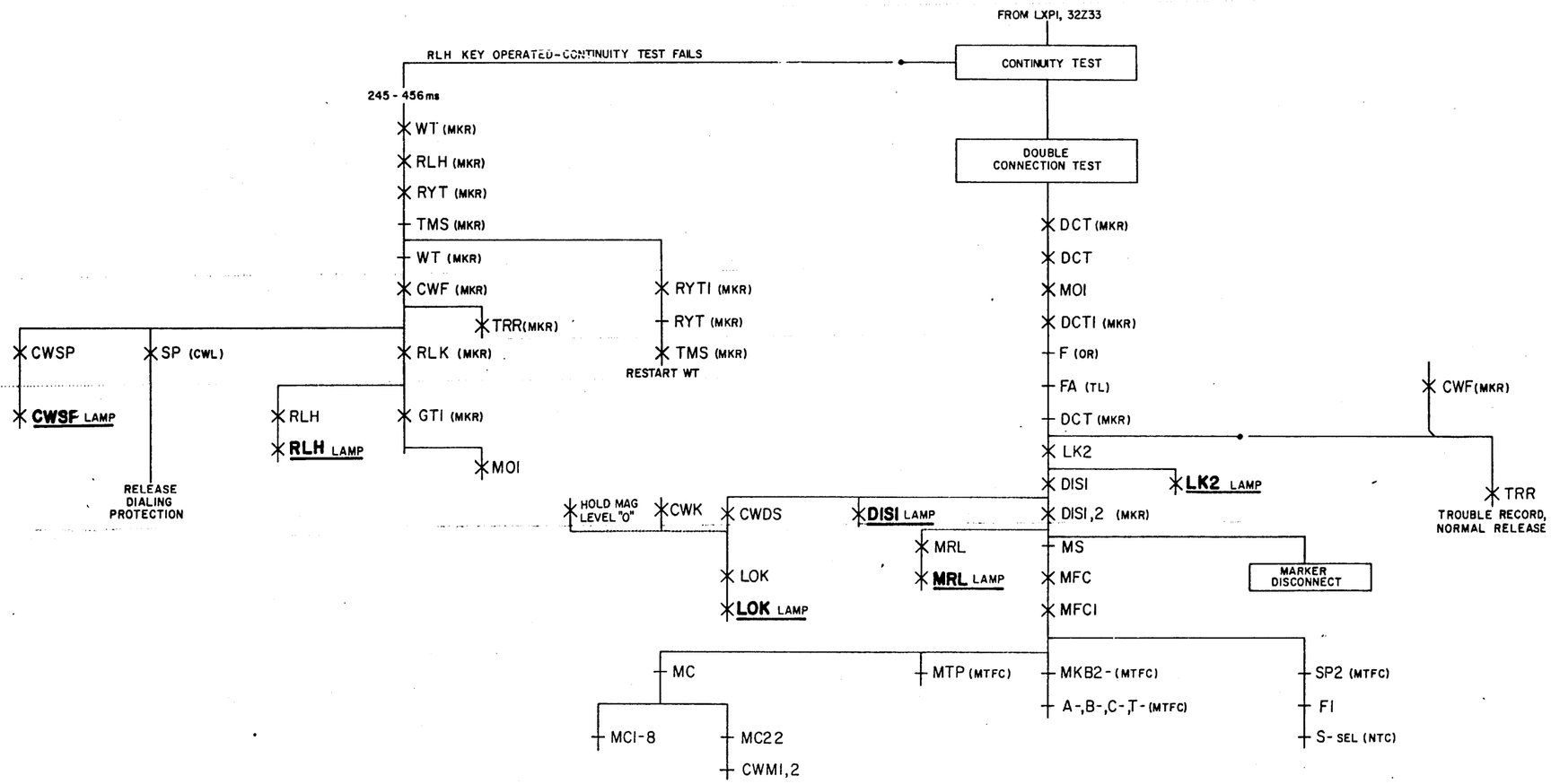
SD-25800-01-E32

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-E32

PART OF SC 19

CALL WAITING SERVICE–TEST OF DIAL TONE
MARKER FUNCTIONS AND LEVEL "0" OPERATION
(LIGHT TRAFFIC)



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E33

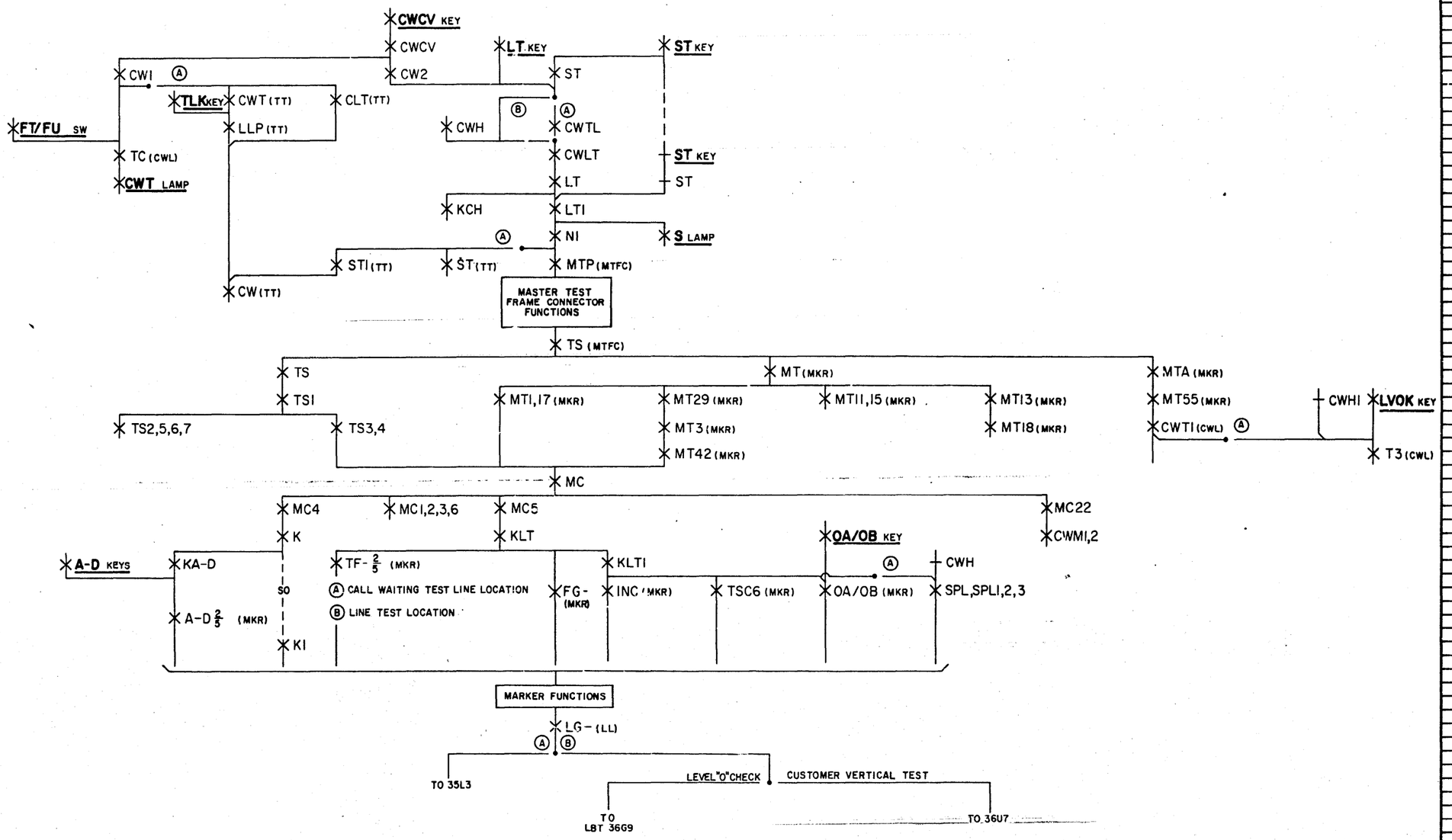
BELL TELEPHONE LABORATORIES INCORPORATED

SHEET SIZE 6S

SD-25800-01-E33

PART OF SC 20

CALL WAITING SERVICE — CUSTOMER VERTICAL
TEST OR CUSTOMER LEVEL "0" CHECK



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

2.

OPTION	FUNCTION
A	FIRST TEST CALL ONLY
B	SECOND TEST CALL ONLY

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-E34

6S

SD-25800-01-E34

PART OF SC 20

CALL WAITING SERVICE - CUSTOMER VERTICAL TEST OR CUSTOMER LEVEL "0" CHECK

FROM 34M33

FIRST CALL

VFT-(MKR)

CUSTOMER LINE LINK FRAME APPEARANCE IDLE

CUSTOMER LINE LINK FRAME APPEARANCE BUSY

SPL3(MKR)

LIT(MKR)

CWS(MKR)

LBT(MKR)

LBTA(MKR)

TI(CWL)

LP_(CWL)

CUSTOMER CALL WAITING LINK VERTICAL IDLE

CUSTOMER CALL WAITING LINK VERTICAL BUSY

SPL3(MKR)

CWK(MKR)

CWKI(MKR)

LI(MKR)

NCW(MKR)

LEVEL "0" REQUIRED

T3

NCW

LB(MKR)

MARKER CONNECTS TRUNK LINK FRAME APPEARANCE OF CALL WAITING TEST LINE TO LINE LINK FRAME APPEARANCE OF CALL WAITING CUSTOMER

LKI(MKR)

DTM(CWL)

NCW LAMP

CALL WAITING LINK CKT CONNECTS CUSTOMER LINE THROUGH LEVEL "0"

MARKER SETS CALL TO BUSY

RCK2(MKR)

RSI,9

BY LAMP

DISI

DISI LAMP

DISI,2(MKR)

CWDS

MARKER DISCONNECT

MRL

MRL LAMP

MFC

MFCI

MFC2

MASTER TEST FRAME CONNECTOR DISCONNECT

MC

MC-

MC22

MTC

CWMI,2

CWH

KR,KRI

KR3

MRL

MFC

MFCI

NCW

NCW LAMP

LT,CWLT,CWTL

LTI

CWHI

KR LAMP

NI

KR,KRI

CWH LAMP

KR3

KR LAMP

CALL WAITING CUSTOMER GOES OFF-HOOK BEFORE COMPLETION OF 2ND TEST CALL

MFC(TT)

CWSV(TT)

CWRL

CWT(TT)

CRL LAMP

CWKR

CLT(TT)

LLP(TT)

ST, STI(TT)

CWH

KR, KRI

HOLD MAGNETS

CW(TT)

KR3

KR LAMP

LINKAGE RELEASED TO CUSTOMER LINE LINK FRAME APPEARANCE

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E35

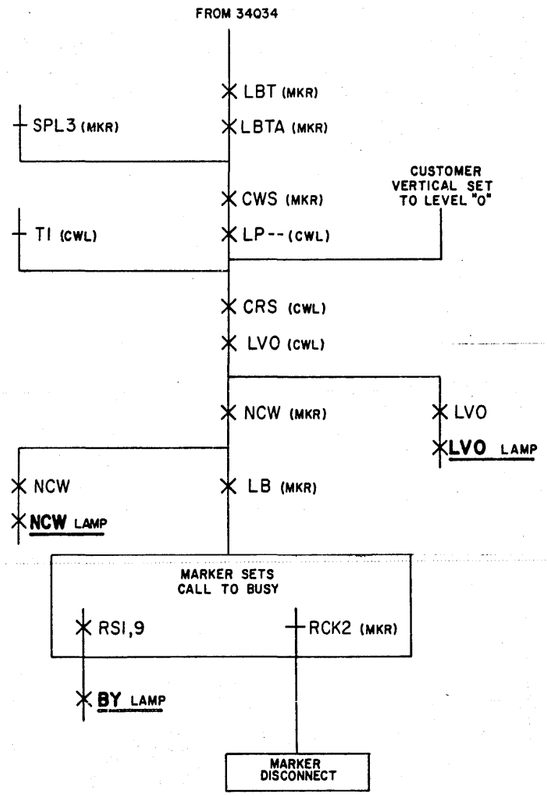
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E35

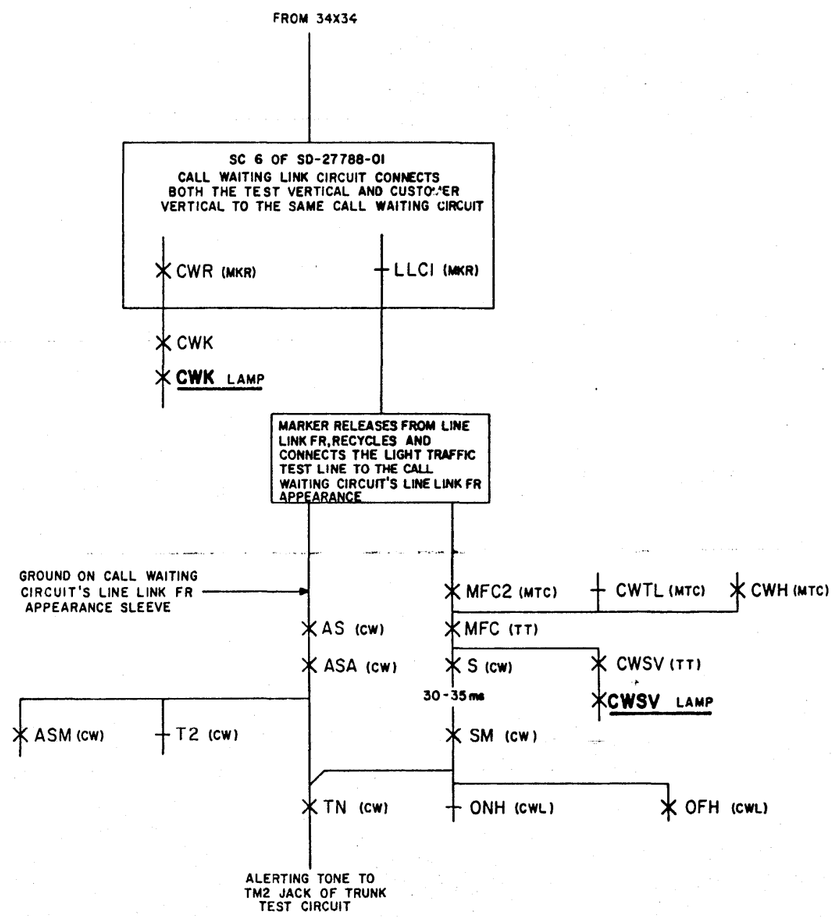
PART OF SC 20

CALL WAITING SERVICE - CUSTOMER VERTICAL TEST
OR CUSTOMER LEVEL "0" CHECK

CUSTOMER LEVEL "0" CHECK –
PART OF 2ND TEST CALL



VERTICAL TEST –
PART OF 2ND TEST CALL



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2)

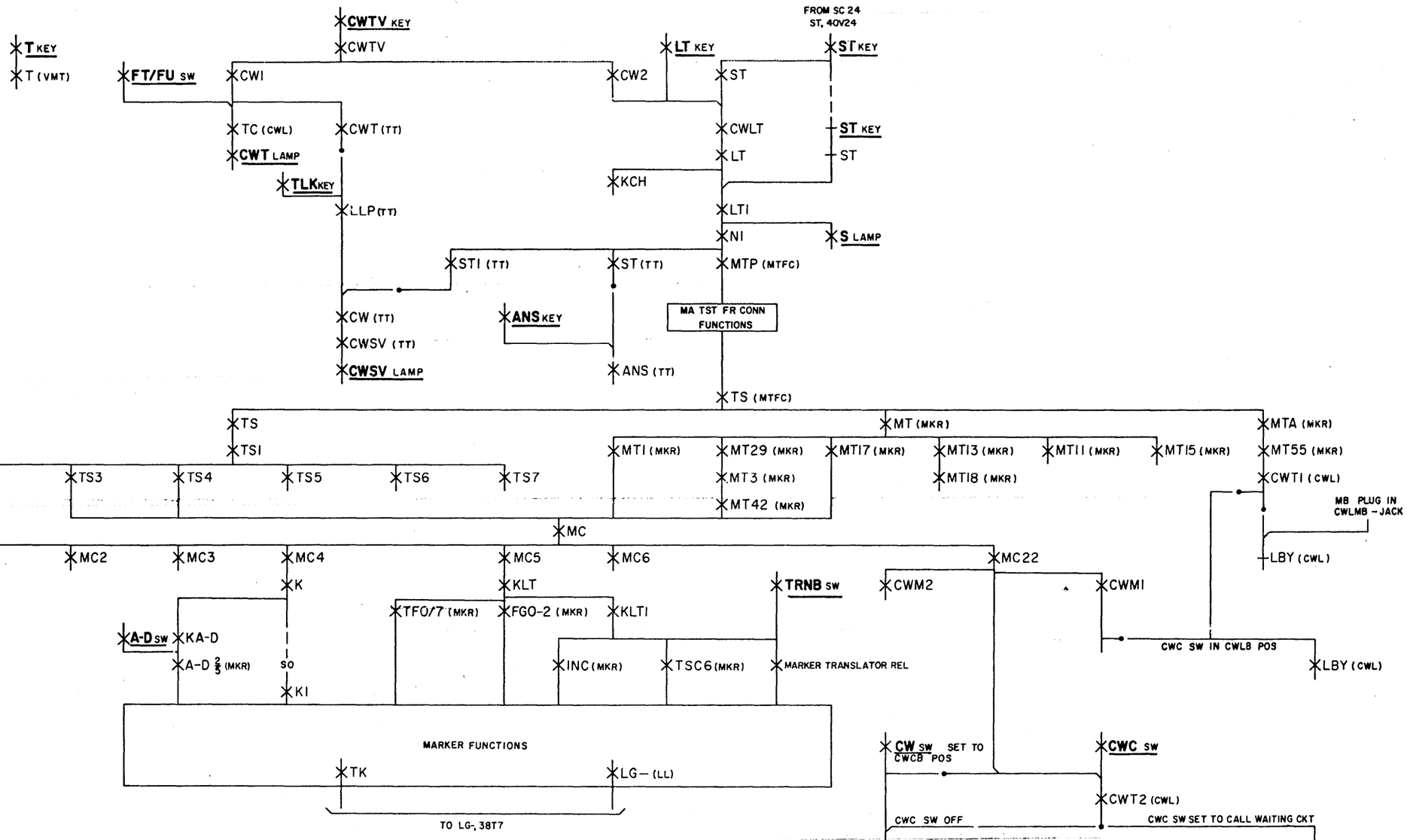
SD-25800-01-E36

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E36

PART OF SC 21

LINE TEST CLASS OF CALL WAITING TESTS
WITH CWTV KEY OPERATED



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

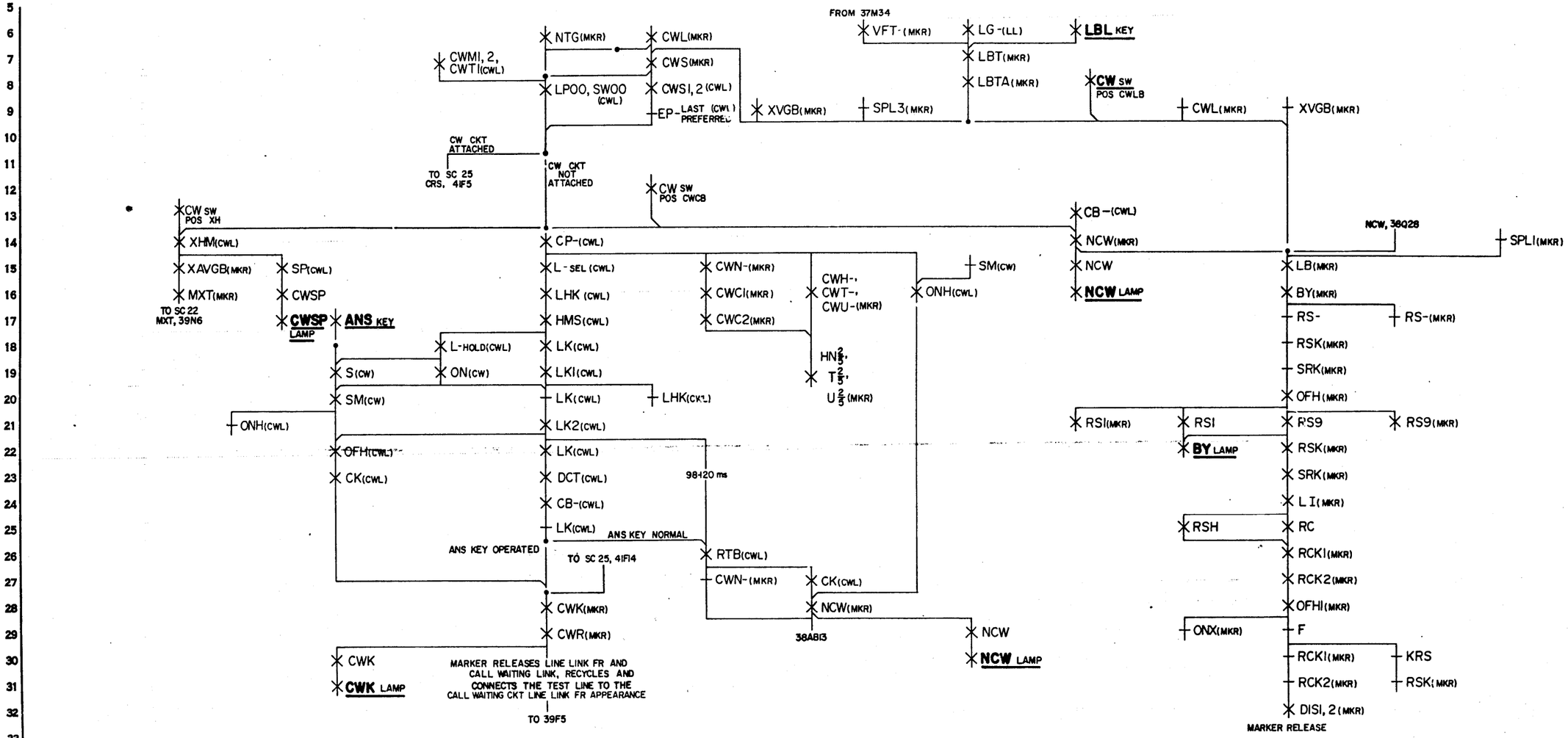
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E37

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E37

PART OF SC 21

LINE TEST CLASS OF CALL WAITING TESTS
WITH CWTV KEY OPERATED



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

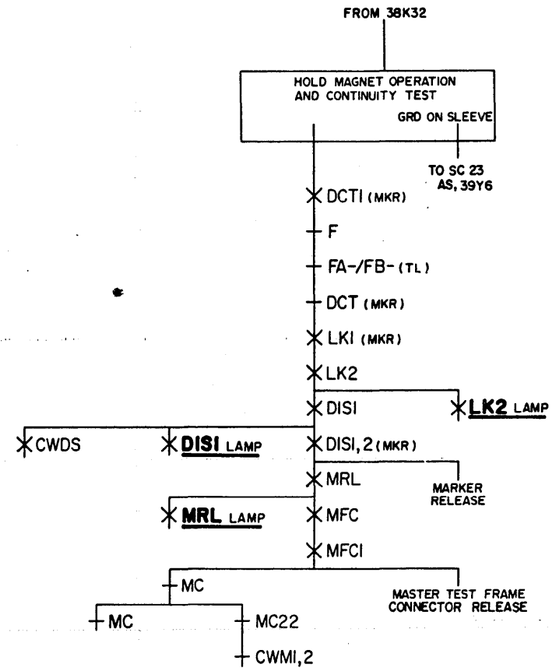
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E38

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-E38

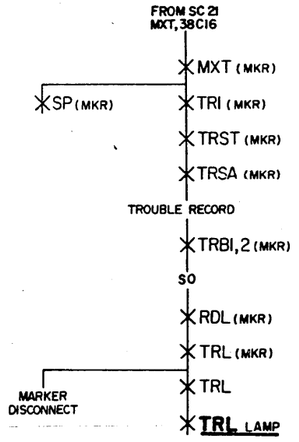
PART OF SC 21

LINE TEST CLASS OF CALL WAITING TESTS WITH CWTV KEY OPERATED



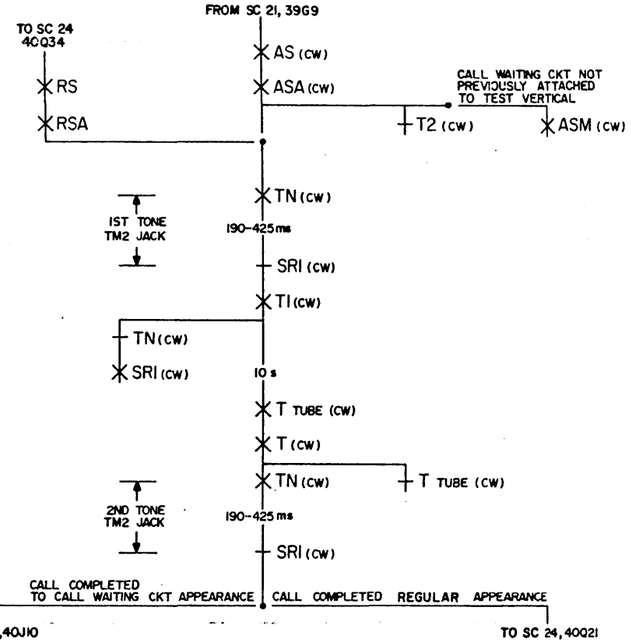
SC 22

TROUBLE RECORD & RELEASE WITH CW SWITCH IN XH POSITION



SC 23

ALERTING TONE TO TM2 JACK



NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E39

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E39

SC 24

CALL WAITING CIRCUIT TEST

FROM SC 23, 39U22

ANS KEY
ANS (TT)
CWA (TT)
S (CW)
TR (CW)
NT (CW)
TN (CW)
TI (CW)
T (CW)
.2s
SB (CW)
S (CW)
TRA (CW)
ANS KEY
ANS
L (VMT)
LI (VMT)
S LAMP
H2 (CW)
HIGH TONE TO MASTER TEST FR TES. RECEIVER
CWS (CW)
SB (CW)

FROM SC 23, 39AC22

CALL COMPLETED TO REGULAR APPEARANCE
B DISCONNECTS AFTER "A" FLASHES TO C

ANS KEY
ANS (TT)
S (CW)
TRA (CW)
.2s
SB (CW)
ANS KEY
ANS (TT)
CALL JUST COMPLETED WAS TO REGULAR APPEARANCE
NT (CW)
TN (CW)
TI (CW)
T (CW)
S (CW)
TR (CW)
CALL JUST COMPLETED WAS TO REGULAR APPEARANCE
CWSV (TT)
CWSV LAMP
HI (CW)
CWS (CW)
SB (CW)
HIGH TONE TO TMI JACK
RL, 40V13

TLK KEY
RS (CW)
RSA (CW)
NT (CW)
TLK KEY
B CALLS A
LLP (TT)
CW (TT)
LLP (TT)
CW (TT)
CWA (TT)
HI (CW)
CWSV (TT)
CWSV LAMP
FROM SC 23 RS, 39V7

40J37

RL KEY
KRI
KR
KR3
RELEASE TEST RELAYS AND EXTINGUISH LAMPS
T KEY
CW (TT)
CWA (TT)
T KEY
CW (TT)
HIGH TONE SILENCED IN TMI JACK
ST KEY
TO SC 21 ST, 37U5

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

83

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-E40

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E40

SC 25

CALL WAITING CKT
PREVIOUSLY ATTACHED

FROM SC 21
38H15

- CRS (CWL)
- CI (CW)
- CH (CW)
- CP- (CWL)
- CWN- (MKR)
- CWCI (MKR)
- CWC2 (MKR)
- CWH-, CWT-, CWU- (MKR)

FROM SC 21
38L26

SC 26

TRANSVERTER-MAGNETIC TAPE TEST OF ANI FEATURE

- ST L KEY
- TSTA SW (TV)
- ST L KEY
- TV
- TVI
- TV2
- TV3,4
- MTCP
- PR
- NI
- MTFC PREFERENCE
- TS
- TVT (TV)
- TVT2 (TV)
- TVT
- CKG (TV)
- TVTI
- CO- (TV)
- CK6 (TV)
- ON (TV)
- ONI (TV)
- MC
- MC-
- NTC L KEY
- ANI L KEY
- FT,FU,VG SW
- SPL (TV)
- KTV
- KVFI
- ATD (TV)
- OTLI
- KVHG
- KFTU
- FT-,FU-,VG- (TV)
- PBX-AIOD TRNSL FUNCTIONS
- OFT-,OFF-,TH-,HN-,T-,U- (TV)
- DNK (TV)
- DNK,AC5

DNK,P26

- REC L KEY
- ATDL L KEY
- DNK
- ATD (TV)
- ATVB
- SCK,SCKI (TV)
- ATVC
- REC L KEY
- RGC,AKI,2-GKI,2 (TV)
- DISI,2
- REC
- TR (TV)
- TRI (TV)
- TRST (TV)
- TROUBLE RECORD WITHOUT (TI) PUNCH
- TRB (TV)
- RL (TV)
- MRL
- MFC
- MFCI,2
- TVT
- CK6 (TV)
- ON (TV)
- TTP (MTFC)
- TV CKT RELEASES
- MTFC RELEASES

NOTES:
1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

DRAWING ISSUE 83A

ISSUE 85A

MASTER TEST CONTROL CIRCUIT (2)

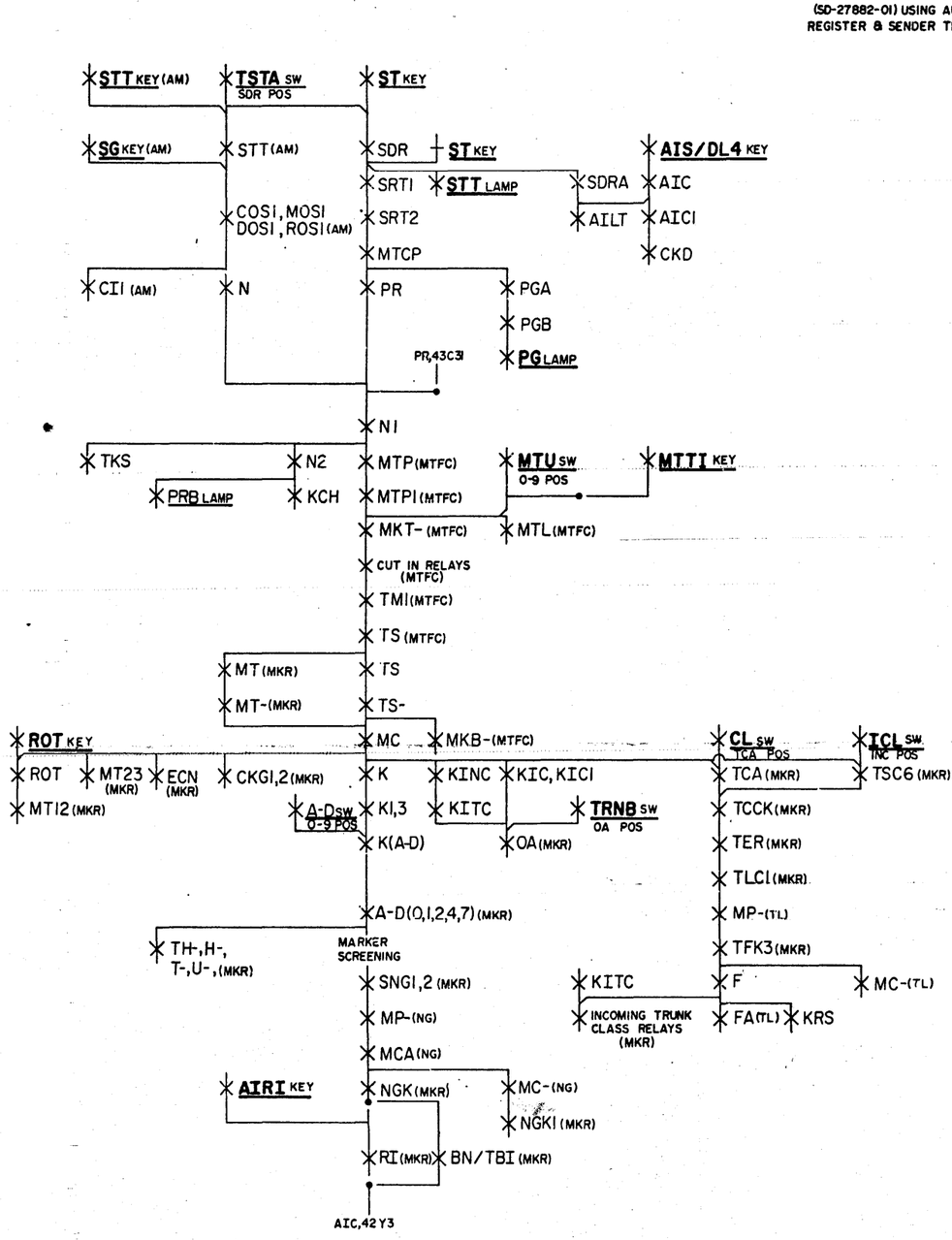
SD-25800-01-E41

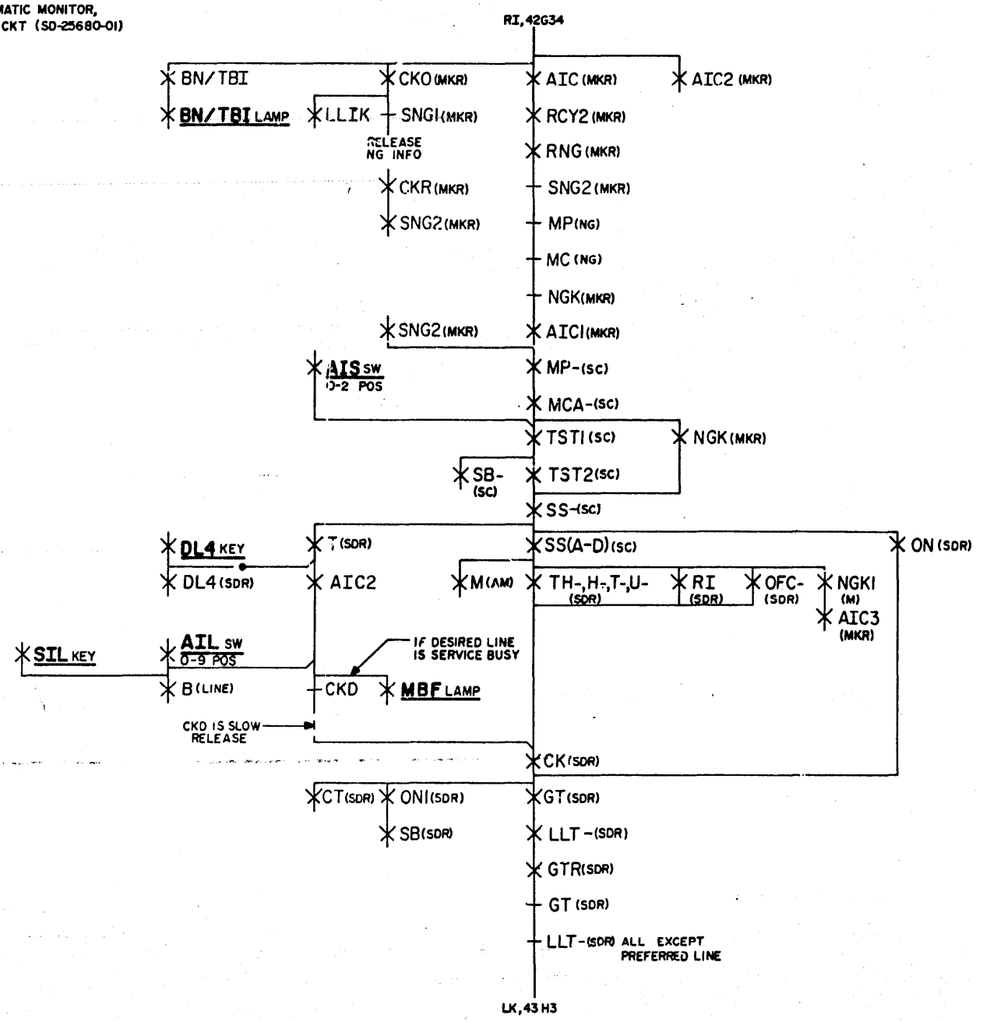
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-E41

PART OF SC 27

TESTS OF AUTOMATIC INTERCEPT SENDER (SD-27882-01) USING AUTOMATIC MONITOR, REGISTER & SENDER TEST CKT (SD-25680-01)





NOTES:

1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

ISSUE 93A

MASTER TEST CONTROL CIRCUIT

SD-25800-01-E42

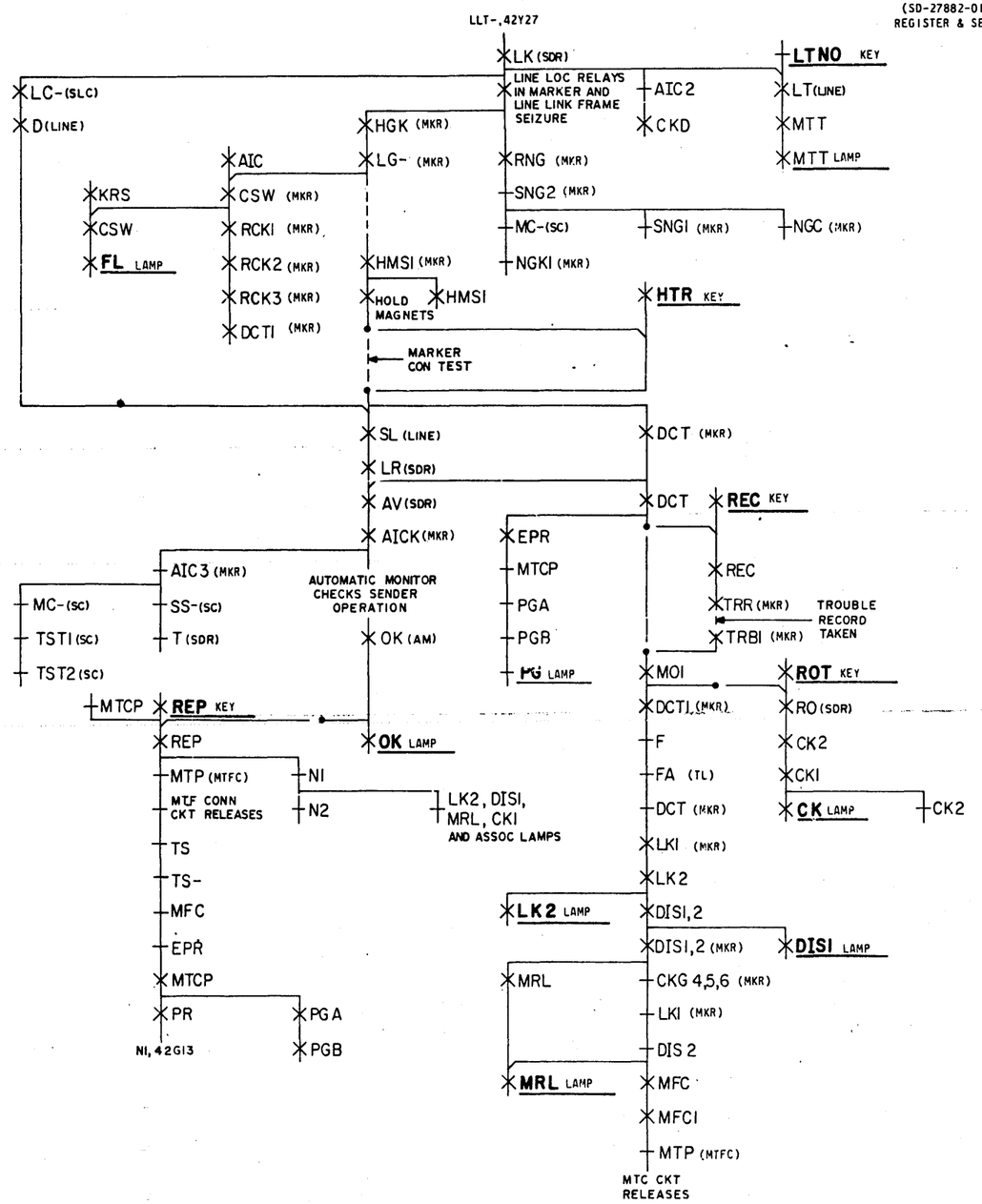
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-E42

PART OF SC 27

TESTS OF AUTOMATIC INTERCEPT SENDER (SD-27882-01) USING AUTOMATIC MONITOR, REGISTER & SENDER TEST CKT (SD-25680-01)



NOTES:

1. FOR CIRCUIT ABBREVIATIONS, SEE LEGEND ON SHEET E1.

ISSUE 93A

MASTER TEST CONTROL CIRCUIT

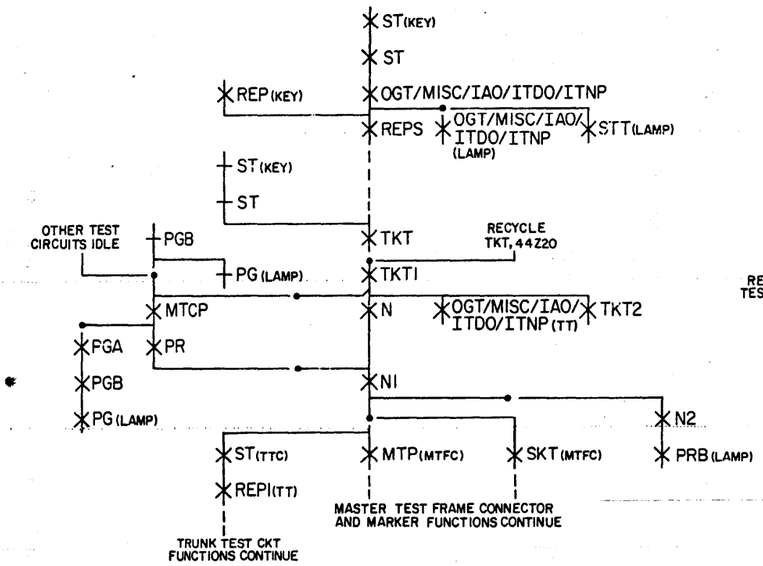
BELL TELEPHONE LABORATORIES INCORPORATED

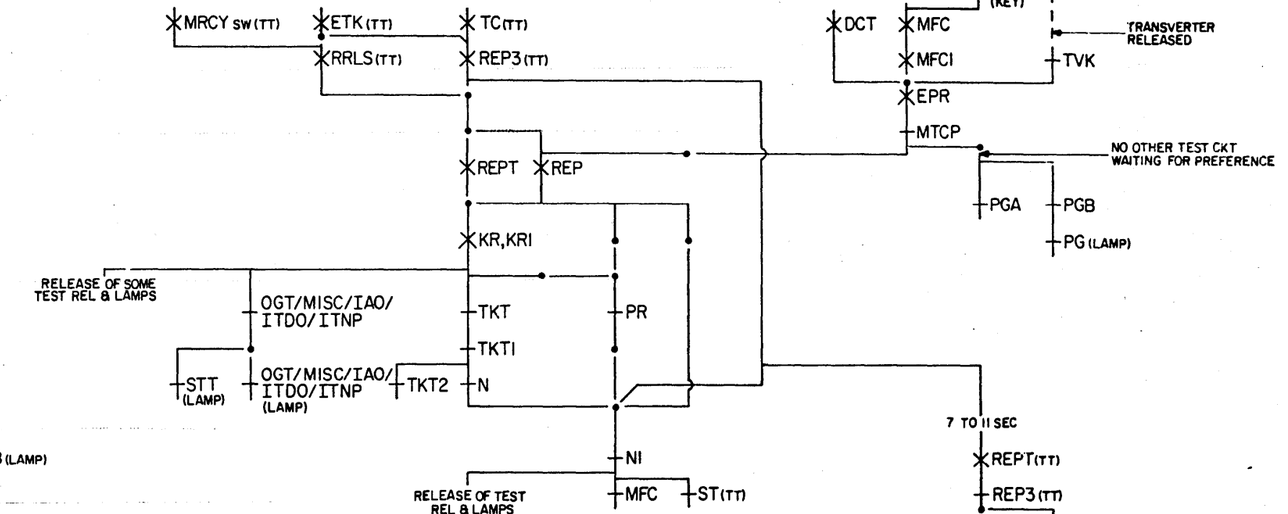
SD-25800-01-E43

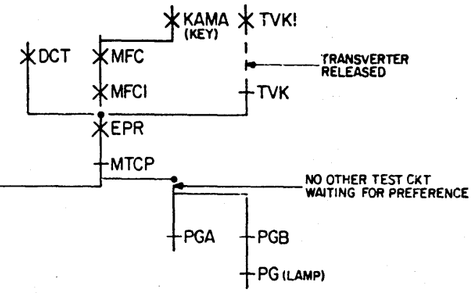
65

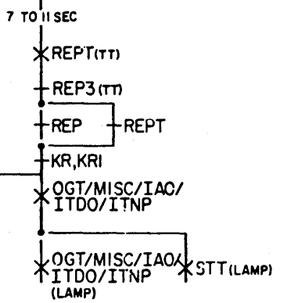
SD-25800-01-E43

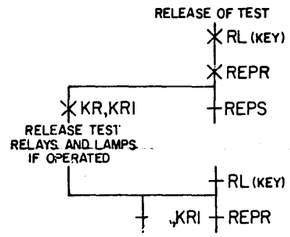
SC 28
AUTOMATIC TRUNK TEST RECYCLE











MASTER TEST CIRCUIT

BELL LABORATORIES	SD-25800-01	DWG SIZE 6S	ISSUE 988
			E44

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
1CNK	1/2AK30		135	202			(KR3)0		1L(1CNK)	GRD			0		23.5	22	MTD WITH (2CNK)
1LTT	1/2AK30		158	202					1U(1LTT)	GRD			0		23.5	22	MTD WITH (2LTT)
2CNK	1/2AK30		135	202			(KR3)0		1U(2CNK)	GRD			0		23.5	22	MTD WITH (1CNK)
2LN	U1113		58	114/114	H	50	(KR)0		)(2LN)	GRD			0		22	21	
2LTT	1/2AK30		158	202					1L(2LTT)	GRD			0		23.5	22	MTD WITH (1LTT)
3DC	AJ15		102	249					U(3DC)	GRD			0		43	40.5	
4W	U188		49	161/161	H	53	10T(KR)		T(4W)	GRD			0		18.5	17.5	
4WA,B	U177		49	139/139	H	59							0		19	18	WDG ALONE
								T	REL	GRD			0		42.5	40	PAR.COMB. OF (4WA,B)
									TST	GRD			0		65	62	PAR.COMB.OF(4WA,B,C)
4WC	U177		49	139/139	H	59							0		19	18	WDG ALONE
									T(4WC)	GRD			0		65	62	PAR.COMB.OF(4WA,B,C)
									T(4WC)	GRD			0		80	75	PAR.COMB.OF(4WC,F,G)
4WD	U177		49	139/139	H	59							0		19	18	WDG ALONE
									T(4WD)	GRD	1		0		42.5	40	PAR.COMB. (4WD,E)
									T(4WD)	GRD	2		0		55.5	53	
									T(4WD)	GRD	1		0		65	62	PAR. COMB. (4WD,E,F)
									T(4WD)	GRD	2		0		80	75	
4WE	U177	EU	94	139/139	H	59							0		19	18	WDG ALONE
									T(4WE)	GRD			0		42.5	40	PAR.COMB. (4WD,E)
									T(4WE)	GRD			0		42.5	40	PAR.COMB. (4WE,F)
									T(4WE)	GRD			0		65	62	PAR.COMB. (4WD,E,F)
4WE	AJ39	EV	94	220									0		18.5	17.5	WDG ALONE
									U(4WE)	GRD			0		32.5	30.5	PAR.COMB. (4WD,E)
									U(4WE)	GRD			0		32.5	30.5	PAR.COMB. (4WE,F)
									U(4WE)	GRD			0		47.5	45	PAR.COMB. (4WD,E,F)
4WF	U177		49	139/139	H	59							0		19	18	WDG ALONE
									T(4WF)	GRD	1		0		42.5	40	PAR.COMB. (4WE,F)
									T(4WF)	GRD	2		0		55.5	53	PAR.COMB. (4WE,F)
									T(4WF)	GRD	1		0		65	62	PAR.COMB. (4WD,E,F)
									T(4WF)	GRD	2		0		80	75	PAR.COMB. (4WD,E,F)
									T(4WF)	GRD			0		80	75	PAR.COMB. (4WC,F,G)
4WG	AJ39	PY	49	220									0		18.5	17.5	WDG ALONE
									U(4WG)	GRD			0		47.5	45	PAR.COMB. (4WC,F,G)
4WIR	AJ22	AO	99	234					U(4WIR)	GRD			0		40	38	
4WLT	AJ15		99	249					U(4WLT)	GRD			0		43	40.5	
4WM	AJ22	AO	99	234					U(4WM)	GRD			0		40	38	
A	U422		125	132/101	H	47			T(A)	GRD			0		14.4	13.7	
AIA	U287		125	130/111	H	44			T(AIA)	GRD			0		19	18	
ACDI	AJ15		120	249					U(ACDI)	GRD			0		43	40.5	
ACD2	AF24		156	8					U(ACD2)	GRD			0		30.5	29	
ACD3	AJ15		156	249					U(ACD3)	GRD			0		43	40.5	
ACD4	AF24		156	8					U(ACD4)	GRD			0		30.5	29	
ACDA	AF24		160	8									0		30.5	29	WDG ALONE
									U(ACDA)	GRD			0		58	55.5	PAR COMB WITH (TS4)
ACDT	AJ15		120	249			(KR)0		U(ACDT)	GRD			0		43	40.5	
AD	U318	IS	41	150/179	H	50			T(AD)	GRD			0		11.7	11.1	
AD	1/2AK4	IT	41	202					1U(AD)	GRD			0		11.9	11.3	MTD WITH (OD)
ADD	AF512	ZST	105	207			(KR)0		U(ADD)	GRD			0		26.5	25	
ADD0, 2,4,6,8	1/2AK30		151	202			(KR)0		1U(REL TST)	GRD			0		23.5	22	MTD WITH (ADD1,3,5,7,9) RESPECTIVELY
ADD1,3,5,7,9	1/2 AK30		151	202			(KR)0		1L(REL TST)	GRD			0		23.5	22	MTD WITH (ADD0,2,4,6,8) RESPECTIVELY
AEC	AF111		127	270			(KR3)0		U(AEC)	GRD			0		43	40.5	
AF	1/2 AK6		98	2				2U(AF)		BAT.			0		29	27.5	MOUNTED WITH (ARL)
AGA, AGB	AF83		151	8						GRD			0		8.2	7.8	WDG ALONE
									U(REL TST)	GRD			0		18.5	17.5	PAR.COMB.(AGA,AGB)
AGC	AF24		51	8					U(AGC)	GRD			0		30.5	29	
AGCM 0-11	AJ512		152	64					U(REL TST)	GRD	3		0		90	85	

DRAWING ISSUE: 780, 79A, 80D, 81A, 82D, 83A

TEST NOTES:
1. EU OPTION PROVIDED
2. EV OPTION PROVIDED
3. CONN GRD TO 11 OF REL TST

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
AIA	U577	TN	41	163/130	H	59			T(ATA)	GRD			0		29.5	28	
AIA1	U1426	TN	41	150/225	H	53		B(AIA1)		BAT.			0		26.5	25	
AIC	AJ15		137	249					U(AIC)	GRD			0		43	40.5	
AICI	1/2AK30		137	202					1L(AICI)	GRD			0		23.5	22	MTD WITH (AILT)
AIC2	AJ15		137	249					U(AIC2)	GRD			0		43	40.5	
AIC3	AJ15		137	249					U(AIC3)	GRD			0		43	40.5	
AIC4	1/2AK30		180	202					1U(AIC4)	GRD			0		23.5	22	MTD WITH SPARE
AICT	1/2AK30	ZJD	3	202					1L(AICT)	GRD			0		23.5	22	MTD WITH (REPT)
AIDT	U1149	DZ	20	109/148	H	47			U(AIDT)	GRD			0		17	16	
AILT	1/2AK30		137	202					1U(AILT)	GRD			0		23.5	22	MTD WITH (AICI)
AISM	1/2AK30	ZJE	3	202			KR3(0)		1L(AISM)	GRD			0		23.5	22	MTD WITH (REPT)
ALC0,1	AF24		180	8					U(REL TST)	GRD			0		30.5	29	WDG ALONE
									U(REL TST)	GRD			0		61	58	PAR. COMB. (ALC0.ALC1)
ALT	AJ5		180	220					U(ALT)	GRD			0		13.3	12.6	
AMA	U90	N	17	145/123	H	47			TF(AMA)	GRD		P	0		18	17	
									TR(AMA)	GRD		S	0		14.5	13.8	
ANGA	AG35	ZSB	107	678					1U(ANGA)	GRD	4	P	0		31.5	30	
													H		4.7	4.4	
													R		3.3	3.6	
							12(ANGA)	2L(ANGA)	2U(ANGA)	B/G	1	S	0		32.5	30.5	
ANGB	AF42	ZSB	107	224					U(ANGB)	GRD			0		100	95	
ANGC	AG35	ZQT	107	678					1U(ANGC)	GRD	4	P	0		31.5	30	
													H		4.7	4.4	
													R		3.3	3.6	
							12(ANGC)	2L(ANGC)	2U(ANGC)	B/G	1	S	0		32.5	30.5	
AR	PART OF 293C		127						35(AR)	GRD	3		0		10		(SEE BR,CR,L1,L2)RELAYS
AREP	U109	ZXL	39	107/107	H	50	9T(TTRP)		T(AREP)	GRD			0		16	14.9	
AREP	1/2AK22		154	216					1U(AREP)	GRD	5		0		27.0	26.0	MTD WITH (TTRP)
ARL	1/2AK6		98	2			(KR)0		1L(ARL)	GRD			0		29	27.5	MOUNTED WITH (AF)
ASB	Y115		8,35	131/115	H	35			T(ASB)	GRD			0	FS	16	15	
													H	FS	1.4	1.3	
													R	FS	0.7	0.9	
ASDR	U1317		48	117/148	H	47			T(ASDR)	GRD			0		19	18	
AST	AG21		62	2828					1U(AST)	GRD	1	P	0	FS	48.5	46	
									1U(AST)	GRD		P	H	FS	6	5.7	
									1U(AST)	GRD		P	R	FS	3.9	4.6	
									2U(AST)	GRD	2	S	0		60.5	57.5	
ASTR	AF63		62	229					U(ASTR)	GRD			0		7.1	6.7	
ATC	1/2AK4		55	202					1U(ATC)	GRD			0		11.9	11.3	MOUNTED WITH (OV)
ATLV	U1054		48	151/134	H	41			T(ATLV)	GRD			0		8.7	9.2	
ATMK	AF57		99	210					U(ATMK)	GRD			0		27	25.5	
ATNT	AF132		56	67					U(ATNT)	GRD			0		34.5	32.5	
ATT	U69		26	141/172	H				T(ATT)	GRD			0		26	24.5	
ATTP	1/2AK22		154	216					1L(ATTP)	GRD	5		0		27.0	26.0	MTD WITH LVP
ATTP	U168		28	108/106	H	47	3T(MTCP)		T(ATTP)	GRD			0		19.5	19.5	
ATTP	U582		39	226/118	H	59	3T(MTCP)		T(ATTP)	GRD			0		27	25.5	
ATV	U611		64	139/139	H	59			T(ATV)	GRD			0		30	28.5	
ATVA	1/2 AK30	ZTW	127	202					1U(ATVA)	GRD			0		23.5	22	MOUNTED WITH SPARE
ATVB	AF504	ZTW	127	8			12M(ATVB)		U(ATVB)	GRD			0		80	72	
ATVC	AF504	ZTW	127	8					U(ATVC)	GRD			0		80	72	
AV	1/2AK30		120	202			(KR)0		1U(AV)	GRD			0		23.5	22	MOUNTED WITH(AVG)
AVG	1/2AK30		120	202			(KR)0		1L(AVG)	GRD			0		23.5	22	MOUNTED WITH (AV)
BAK	AF42		127	224			(KR3)		U(BAK)	GRD			0		100	95	

DRAWING ISSUE: 61A, 620, 630, 650, 670, 710, 730, 76D, 77A, 780, 79A, 800, 81A, 820, 83A

TEST NOTES:

1. ARMATURE BACK TENSION MAXIMUM 80 GRAMS READJUST, 85 GRAMS TEST.
2. CONNECT DIRECT BATTERY TO 2L(AST) RELAY.
3. FOR TESTING PROCEDURE SEE INFORMATION NOTE 321.
4. REQUIREMENTS APPLY TO PRIMARY WINDING WITH THE SECONDARY SHORT CIRCUITED. ARMATURE BACK TENSION MAXIMUM 80 GRAMS READJUST, 85 GRAMS TEST.
5. BLOCK PGB OPERATED, BLOCK PGA NON OPERATED, AND INSULATE 11B OF MTCP.

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-F1

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CIRCUIT REQUIREMENTS

DRAWING ISSUE

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
BB	U81		4		113/113	H	29			T(BB)	GRD			0		22	20.5	
BB1	U81		49		113/113	H	29			T(BB1)	GRD			0		22	20.5	
BCNK	1/2AK30	ZPI	135		202					IU(BCNK)	GRD			0		23.5	22	MTD WITH (BSC)
BN	U286		11		108/111	H	47	(KR)O		T(BM)	GRD			0		16	15	
BR	PART OF 293C		127							45(BR)	GRD	1		0		10		SEE(AR,CR,LI,L2)RELAYS
BRL	U1164		51		202/322	H	71	(KR)O		T REL TST	GRD			0		41	39	
BRLI																		
BSC	1/2AK30	ZPI	135		202			(KR)O		IL(BSC)	GRD			0		23.5	22	MTD WITH (BCNK)
BSMT	AJ15	ZPI	135		249					U(BSCT)	GRD			0		43	40.5	
BSNT	AJ15	ZPI	135		249					U(BSNT)	GRD			0		43	40.5	
BSTK	1/2AK30	ZPI	135		202					IU(BSL)	GRD			0		23.5	22	MTD WITH (LSS)
BT	U103		1		108/108	H	47			TF(BT)	GRD		P	0		20	19	
										TR(BT)	GRD		S	0		16.5		
BTG	U806		51		147/120	H	44	(KR1)O		T(BTG)	GRD			0		26	24.5	
										T(BTG)	GRD			NO		14.7	15.5	
CAM	U81		40		113/113	H	29	(TSK2)O	B(CAM)	BAT.				0		22	20.5	
CAM1	U71		41		168/162	H	50							0		25.5	24	WDG ALONE
										T(CAM1)	GRD	2		0		55.5	53	PAR. COMB. OF (CAM1) & (CAM5)
CAM2	U71		41		168/162	H	50			T(CAM2)	GRD			0		25.5	24	
CAM3	U591		41		119/113	H	35			T(CAM3)	GRD			0		26.5	25	
CAM4	U611		46		139/139	H	59			T(CAM4)	GRD			0		30	28.5	
CAM5	U1113		41		114/114	H	50							0		22.5	21	WDG ALONE
										T(CAM5)	GRD	2		0		48.5	46.5	PAR. COMB. OF (CAM5) & (CAM1)
CAM6	U1396		40		127/114	H	50			T(CAM6)	GRD			0		43.5	41	
CAM7	U588		40		119/119	H	35			T(CAM7)	GRD			0		13.7	13	
CAMS	U794		41		119/119	H	35		B(CAMS)	BAT				0		22.5	21	
CATN	AJ15	ZUK	87		249					U(CATN)	GRD			0		43	40.5	
CB	1/2AK30		127		202			(KR3)O		IU(CB)	GRD			0		23.5	22	MOUNTED WITH (CTR)
CBRL	AF114		110		54			(KR)O		U(CBRL)	GRD			0		24.5	23	
CCSA	1/2AK30		101		202			(KR)O		1U(CCSA)	GRD			0		23.5	22	MOUNTED WITH (POTS)
CCT	AJ39		62		220					U(CCT)	GRD			0		18.5	17.5	

TEST NOTES:

1. FOR TESTING PROCEDURE SEE INFORMATION NOTE 321.
2. WHEN (PCAM) RELAY IS PROVIDED (ETS-CAMA FEATURE) INSULATE 8(PCAM).

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CIRCUIT REQUIREMENTS

DRAWING ISSUE: 61A, 62D, 63D, 67D, 73D, 75D, 78D, 79A, 82D

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
CDN	1/2AK34		55		15					1U(CDN)	GRD			0		14.5	13.8	MOUNTED WITH(KINC1)
CE	U1301		51		123/123	H	29			T(CE)	GRD			0		14.1	13.4	
CF	AJ124		86		219				L(CF)		BAT.			0		210	200	
									L(CF)		BAT.			NO		100	110	
CGA	U1309		37		134/134	H	35	5T REL		BF REL	GRD	1	P	0		55		
CGB								TST		TR TST	GRD		S	0		16.5	15.5	
										TR	GRD		S	NO		9.1	9.6	
CHK	1/2AK22	FZ	87		216					1U(CHK)	GRD			0		27.5	26	MOUNTED WITH (TTK)
CHT	AF24		149		8			(KR3)O, 6M(CHTI)		U(CHT)	GRD			0		30.5	29	
CK	U419		125		132/111	H	47			T(CK)	GRD			0		16	14.8	
CK1	U426		17		148/108	H	47			T(CK1)	GRD			0		19	18	
CK2	239KC	ZS	17		8			(CK1)O	1T(CK1)	2B(MC2)	B/G		P	0	-95		2.2	
	OR							(CK1)O	1T(CK1)	2B(MC2)	B/G		P	NO	-95		1.6	
	280BM	ZT						(CK1)O	1T(CK1)	2B(MC2)	B/G		P	0	-95	8.2	7.8	
								(CK1)O	1T(CK1)	2B(MC2)	B/G		P	R	+95	1.4	1.5	
										1(CK2)	GRD		S	O		11		
CK3	U426		42		148/108	H	47			T(CK3)	GRD			0		19	18	
CK4	280BM		42		8			(CK3)O	1T(CK3)	8T(MC11)	B/G		P	0	-95		2.2	
								(CK3)O	1T(CK3)	8T(MC11)	B/G		P	NO	-95		1.6	
								(CK3)O	1T(CK3)	8T(MC11)	B/G		P	0	-95	8.2	7.8	
								(CK3)O	1T(CK3)	8T(MC11)	B/G		P	R	+95	1.4	1.5	
										1(CK4)	GRD		S	O		11		
CKCB	U67	ZYA	76		145/108	H	47	(KR)O		T(CKCB)	GRD			O		18	17	
CKD	AG28		137		2688					U(CKD)	GRD			0	20	15.5	14.5	
														H		2.5	2.3	
														R		1.1	1.3	
CKG	U460	TQ	3		108/108	H	47			T(CKG)	GRD			0		11.2	10.6	
CL3	U261	IK	48		132/111	H	47			TF(CL3)	GRD		P	0		18	17	
CL3	1/2AK10	IL	48		7					1L(CL3)	GRD			0		16.5	15.5	MOUNTED WITH (DCN)
CLK	1/2AK30		120		202					IU(CLK)	GRD			0		23.5	22	MOUNTED WITH (NTS)
CM3	U419		F		132/111	H	47			T(MC3)	GRD			0		16	14.9	
CMA	U419	ZI	F		132/111	H	47			T(CMA)	GRD			0		16	14.8	
CMB	U419	ZJ	F		132/111	H	47			T(CMB)	GRD			0		16	14.8	
CMC	U419	ZK	F		132/111	H	47			T(CMC)	GRD			0		16	14.8	
CNR	U1238	K	17		101/101	H	33	(KR)O		T(CNR)	GRD			0		14	13.3	
CNTT	1/2AK30		156		202			(KR3)O		IU(CHTT)	GRD			0		23.5	22	MOUNTED WITH SPARE
CO	U1301		125		123/123	H	29			T(CO)	GRD			0		14.1	13.4	
COI	U69		125		141/172	H	53			T(COI)	GRD			0		26	24.5	
CON	U300	DS	15		117/148	H	47			TF(CON)	GRD		P	0		21	20	
										TR(CON)	GRD		S	0		17		
CON	U768	DT	15		114/114	H	50			TF(CON)	GRD		P	0		23	21.5	
										TR(CON)	GRD		S	0		24.5		

TEST NOTES:

1. CONNECT DIRECT BATTERY TO TF AND TR OF RELAY UNDER TEST.

ISSUE 99A

MASTER TEST CONTROL CIRCUIT

(2)

SD-25800-01-F2

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
CR	PART OF 293C		127						55(CR)	GRD	1		0		10		SEE(AR),(BR),(LI) & (L2) RELAYS
CRC	1/2AK6		62	7					1U(CRC)	GRD			0		29	27.5	
CRI	AF132		55	61					U(CRI)	GRD			0		34.5	32.5	
CRIR	AF132	IN	86	61			(KR)O		U(CRIR)	GRD			0		34.5	32.5	
CRO	AJ5		55	220					U(CRO)	GRD			0		13.6	12.6	
CS	AJ504		127	57			(KR3)O		U(CS)	GRD			0		11.8	11.2	
CSGK	U422	RH	7	132/101	H	47			T(CSGK)	GRD			0		14.4	13.7	
CSK	U422		7	132/101	H	47			T(CSK)	GRD			0		14.4	13.7	
CSKI	U422	RG	7	132/101	H	47			T(CSKI)	GRD			0		14.4	13.7	
CSR	U477	TN	41	156/130	H	53			T(CSR)	GRD			0		24	22.5	
CSRK	U422	RH	7	132/101	H	47			T(CSRK)	GRD			0		14.4	13.7	
CSTK	AJ64		135	275			(KR3)O		U(CSTK)	GRD			0		28.5	27	
CSW	U1238	LW	13	110/101	H	35			T(CSW)	GRD			0		14	13.3	
CT1, CT2	U467		15	108/110	H	47	3B REL TST		T REL TST	GRD			0		22.5	21	
													NO		12.9	13.6	
CT3	Y109	RS	15	190/108	H	47	3T(CT3)		T(CT3)	GRD			0		22	20.5	
													H		3.5	3.3	
													R		0.9	1.2	
CT3	Y316	RT	15	120/203	H	47	3T(CT3)		T(CT3)	GRD			0		26.5	25	
													H		3.9	3.7	
													R		1.1	1.4	
CT4	U467	RS	15	108/110	H	47			T(CT4)	GRD			0			21	
													NO		12.9	13.6	
CT4	Y220	RT	15	219/220	H	50			T(CT4)	GRD			0	FS	22.5	21	
													H	FS	3.9	3.7	
													R	FS	2.0	2.4	
CTA01, 2,4,7	293A		86								3		0		15		
CTL2	AF132		86	61					U(CTL2)	GRD			0		34.5	32.5	
CTM1	AG18		135	488			(CSTK)O		U(CTM1)	GRD			0	20	8	7.6	
													H	20	1.5	1.4	
													R	20	0.7	0.9	
CTM2	AG4		135	398			(CSTK)O		U(CTM2)	GRD			0	36	12.4	11.8	
													H	36	1.7	1.6	
													R	36	0.9	1.2	
CTR	1/2AK30		127	202			(KR3)O		IL(CTR)	GRD			0		23.5	22	MTD WITH (CG)
CTTO,1 2,4,7	293A		55								3		0		15		
CTV	1/2AK30		127	202			(KR3)O		1U(CTV)	GRD			0		23.5	22	
CUO,1 2,4,7	293A		86								3		0		15		
CUTO,1 2,4,7	293A		55								3		0		15		
CW1	AF83		146	8									0		8.2	7.8	WDG ALONE
									U(CW1)	GRD			0		18.5	17.5	PAR.COMB.WITH(CW2)
CW2	AJ83		146	249									0		13.3	12.6	WDG ALONE
									U(CW2)	GRD			0		29.5	28	PAR.COMB.WITH(CW1)
CWCN	1/2AK30		135	202			(KR3)		IL(CWCN)	GRD			0		23.5	22	MTD WITH (VTS)
CWCV	AJ83		146	249					U(CWCV)	GRD			0		13.3	12.6	
CWDS	1/2AK30		146	202					IL(CWDS)	GRD			0		23.5	22	MTD WITH (CWSP)
CWH	AJ15		146	249					U(CWH)	GRD			0		43	40.5	
CWH1	AJ15		146	249					U(CWH1)	GRD			0		43	40.5	

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
CWK	AJ15		146	249					U(CWK)	GRD			0		43	40.5	
CWKR	1/2AK30		146	202			12M(CWKR)		1U(CWKR)	GRD			0		24.5	22	MTD WITH (CWRL)
CWL	1/2AK30		146	202			(KR)O		1U(CWL)	GRD			0		23.5	22	MTD WITH (NCW)
CWLT	AJ15		146	249			(KR)O		U(CWLT)	GRD			0		43	40.5	
CWM1	AF24		146	8									0		30.5	29	WDG ALONE
									U(CWM1)	GRD			0		68	64.5	PAR.COMB. WITH (CWM2)
CWM2	AJ15		146	249					U(CWM2)	GRD			0		43	40.5	WRD ALONE
									U(CWM2)	GRD			0		95	90	PAR.COMB. WITH (CWM1)
CWNT	AJ15		146	249					U(CWNT)	GRD			0		43	40.5	
CWOR	AJ15		146	249			(KR)O		U(CWOR)	GRD			0		43	40.5	
CWRL	1/2AK30		146	202			(KR)O		1L(CWRL)	GRD			0		23.5	22	MTD WITH (CWKR)
CWSP	1/2AK30		146	202			(KR)O		1L(CWSP)	GPD			0		23.5	22	MTD WITH (CWOS)
CWTH	AJ15		146	249					U(CWTH)	GRD			0		43	40.5	
CWTL	AJ15		146	249			(KR)O, (CWLT)NO		U(CWTL)	GRD			0		43	40.5	
CWTV	AJ83		146	249					U(CWTV)	GRD			0		13.3	12.6	
DAC	AF100		101	252					U(DAC)	GRD			0		41.5	39.5	
DAP	AJ516	AD	101	299			(KR)O		U(DAP)	GRD			0		41	39	
DAP1	AJ516	AD	101	299					U(DAP1)	GRD			0		41	39	
DAT	1/2AK6		86	2					1U(DAT)	GRD			0		29	27.5	MTD WITH (DTF)
DAWB	1/2AK30	ZWU	101	202			(KR)O		1U(DAWB)	GRD			0		23.5	22	MTD WITH SPARE
DCN	U1054	IK	48	151/134	H	41			T(DCN)	GRD			0		8.7	8.2	
DCN	1/2AK10	IL	48	7					1U(DCN)	GRD			0		7.6	7.4	
DCT	U1355		1	117/148	H	47			T(DCT)	GRD			0		38.5	36.5	MTD WITH (CL3)
DCTI	1/2AK30	ZJM	176	202			(KR)O		IL(DCTI)	GRD			0		23.5	22	MTD WITH SPARE
DEC	AF111		127	270			(KR3)O		U(DEC)	GRD			0		43	40.5	
DIS1	U532		1	108/108	H	47									20	19	WDG ALONE
									TR(DIS1)	GRD		S	0		16.5	15.5	
									TF(DIS1)	GRD		P	0		100	95	PAR.COMB. WITH(DIS2)
DIS2	AJ503	ZQV	1	249											95	90	WDG ALONE
									U(DIS2)	GRD			0		180	170	PAR.COMB. WITH(DIS1)
DISC	AJ69		127	278			(KR3)O		U(DISC)	GRD			0		32.5	30.5	

TEST NOTES:

1. FOR TESTING PROCEDURE SEE INFORMATION NOTE 321.
2. ADJUST WITH RELAY SHUNTED BY 500 OHMS ±1% RESISTANCE.
3. PROCEDURE FOR TESTING DRY REED RELAYS
   PREPARATION:
   CONNECT TEST SET GROUND TO TERMINAL OF RELAY UNDER TEST (15,25,35,45,55) FOR 0,1,2,4,7 RESPECTIVELY.
   CONNECT DIRECT BATTERY TO TERMINAL L2 OF TEST SET.
   PLACE L KEY IN NEUTRAL POSITION.
   CONNECT SLEEVE OF TEST T & R JACK TO TERMINAL OF RELAY UNDER TEST (12, 22, 32,42,52) FOR 0,1,2,4,7 RESPECTIVELY.
   ADJUST RED RHEOSTAT 4 & THE THREE 4 SWITCHES FOR MINIMUM RESISTANCE. CONNECT THE TIP OF THE 4W JACK TO TERMINAL 54 OF THE RELAY UNDER TEST.

STEP	ACTION	INDICATION	CHECKS
A	CLOSE OPR KEY	LAMP LIGHTED	CLOSURE OF LOAD CONTACT
B	CLOSE 4 KEY & OPEN OPR KEY	LAMP REMAINS LIGHTED	CLOSURE OF LOCKING CONTACT
C	OPEN 4 KEY	LAMP EXTINGUISHED	OPEN OF LOAD CONTACT
D	CLOSE 4 KEY	LAMP REMAINS EXTINGUISHED	OPEN OF LOCKING CONTACT
E	OPEN 4 KEY		

DRAWING ISSUE
76D
78D
80D
83A

ISSUE 100B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F3

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-F3

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
DMS	U1129	RA	41	132/132		65			T(DMS)	GRD	3		0		18.0	17.0	
									T(DMS)	GRD	3,4		NO		13.7	14.5	
DNK	AF85		127	401			(KR3)O		U(DNK)	GRD			0		36	34	
DR1	AJ9		127	234					U(DR1)	GRD			0		40	38	
DR1A	1/2AK30		127	202					IU(DR1A)	GRD			0		23.5	22	MOUNTED WITH (DR2A)
DR2	AJ9		127	234					U(DR2)	GRD			0		40	38	
DR2A	1/2AK30		127	202					IL(DR2A)	GRD			0		23.5	22	MOUNTED WITH (DR1A)
DRST	AJ15		127	249			(KR3)O		U(DRST)	GRD			0		43	40.5	
DS	U499		H	180/110	H	47			T(DS)								
DST	U25		125	108/108	H	47			6T(DST)	GRD			0		17.5	16.5	
DT	U1288		2	178/135	H	47	(KR)O		T(DT)	GRD			0		21	20	
DT4	1/2AK6		86	2			(KR)O		IU(DT4)	GRD			0		29	27.5	MOUNTED WITH (DT5)
DT5	1/2AK6		86	2			(KR)O		IL(DT5)	GRD			0		29	27.5	MOUNTED WITH (DT4)
DT7	AF114	ZVK	87	34			(KR)O		U(DT7)	GRD			0		24.5	23	
DTF	1/2AK6		86	2					IL(DTF)	GRD			0		29	27.5	MOUNTED WITH (DAT)
DTR	AJ15		86	249			(KR)O		U(DTR)	GRD			0		43	40.5	
DTR1	AJ15		86	249			(KR)O		U(DTR1)	GRD			0		43	40.5	
E1	AF126		39	288					U(E1)	GRD			0		40.5	39	
ENCB	U1149	ZYA	76	109/146	H	47	(KR)O		T(ENCB)	GRD			0		17	16	
ENFL	U1149	ZYA	76	109/148	H	47	(KR)O		T(ENFL)	GRD			0		17	16	
ENTF	1/2AK4		167	202					IU(ENTF)	GRD			0		12.5	11.3	MTD WITH SPARE
EPR	U168		27	108/106	H	47			T(EPR)	GRD			0		19.5	18.5	
EPR	1/2AK22		154	216			PGB(NO)		IL(EPR)	GRD			0		27.0	26.0	MTD WITH REP
ESCK	U67		76	145/108	H	47	(KR)O		T(ESCK)	GRD			0		18	17	
ETRC	AJ503		127	249			KR3(O)		U(ETRC)	GRD			0		95	90	
EV	U1301		51	123/123	H	29			T(EV)	GRD			0		14.1	13.4	
F	U106		13	113/135	H	44		B(F)		BAT.			0		22.5	21	
F1	U81		14	113/113	H	29			T(F1)	GRD			0		22	20.5	
F2	2668	M	13	2	H	15		RT(F2)		BAT.	1		0		10.5	10	
								RT(F2)		BAT.			NO		4.7	5	
								RT(F2)		+BAT.	2		0		10.5	10	
								RT(F2)		+BAT.			NO		4.7	5	
FA	U828		49	112/109	H	29			T(FA)	GRD			0		17.5	16.5	
FAA, FAB	U1301	ML	30	123/123	H	29			T REL TST	GRD			0		14.1	13.4	
FB	U73		13	146/117	H	47	(LT)O		T(FB)	GRD			0		21	20	
FC	U73	IY	13	146/117	H	47			T(FC)	GRD	5		0		21	20	
FCAM	U119		41	145/123	H	47			T(FCAM)	GRD			0		16	14.9	
FD	1/2AK6		99	2					IL(FC)	GRD			0		29	27.5	MOUNTED WITH (LP2)
FDLP	1/2AK22	PQ	55	216					IL(FDLP)	GRD			0		27.5	26	MOUNTED WITH (PDX)
FDLP	AF136	PR	55	410					U(FDLP)	GRD			0		34	32	
FNK	U422		23	132/101	H	47			T(FNK)	GRD			0		14.4	13.7	
FPS	AF10		99	214			6M(FPS)		U(FPS)	GRD			0		8.0	7.2	
FSG, FS1, FS2	U144		V	113/113	H	29			T REL TST	GRD					22	20.5	
FT	U1315	M	13	108/111	H	47		B(FT)		BAT.			0		125	115	
FTO-3	1/2AK6		87	2					IU REL TST	GRD			0		29	27.5	MOUNTED WITH (FUO,1, 2,4)
FTAK	1/2AK6		87	2					IU(FTAK)	GRD			0		29	27.5	MOUNTED WITH (FTBK)
FTBK	1/2AK6		87	2					IL(FTBK)	GRD			0		29	27.5	MOUNTED WITH (FTAK)
FTK	U422		7	132/101	H	47			T(FTK)	GRD			0		14.4	13.7	

TEST NOTES:

1. OPERATES SPGS. ON LEFT SIDE
2. OPERATES SPGS. ON RIGHT SIDE
3. WITH THE ARMATURE ELECTRICALLY OPERATED AGAINST A 0.047 IN. GA, THERE SHALL BE A MINIMUM 0.006 IN. STUD GAP.
4. THE ARMATURE MAY LEAVE THE BACKSTOP ON THE NON-OPERATE BUT THERE SHALL BE A PERCEPTIBLE STUD GAP.
5. WITH APP FIG. J PROVIDED, INSULATE 2T(LT). WITH APP FIG. K PROVIDED, INSULATE 9T(LT).

DRAWING ISSUE: 670 WA, 730, 800, 83A

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F4

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-F4

CIRCUIT REQUIREMENTS

APPARATUS DESIG	CODE	OPT.	FIG.	MECH REQT BSP FIG.	CONT PRES	ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
FUO, 1,2, 4,7	1/2AK6		87	2					1L REL TST	GRD			0		29	27.5	MOUNTED WITH (FTO-3) AND (VGO)
FUAK	1/2AK6		87	2					1U(FUAK)	GRD			0		29	27.5	MOUNTED WITH (FUBK)
FUBK	1/2AK6		87	2					1L(FUBK)	GRD			0		29	27.5	MOUNTED WITH (FUAK)
FUK	U422		7	132/101	H	47			T(FUK)	GRD			0		14.4	13.7	
GI	U601		F	117/148	H	47	(SR)O		T(GI)	GRD			0		19	18	
GLT	3J3A		III	1			(KR)O,(GLTA)O	6(GLT)		BAT.			O	14	4.6		
GLTA	1/2AK30		III	202			(KR)O		1U(GLTA)	GRD			O		23.5	22	MOUNTED WITH (TSEA)
GR	U601		F	117/148	H	47	(SR)O		T(GR)	GRD			0		19	18	
GS	Y278		40	213/145	H	47			8T(GS)	GRD		S	0	32	25.5	24	
									8T(GS)	GRD		S	H	32	5	4.7	
									8T(GS)	GRD		S	R	32	1	1.3	
									9T(GS)	GRD		P	0		27		
HGO, 1,2, 4,7	1/2AK6		87	2					1L REL TST	GRD			0		29	27.5	MOUNTED WITH (VG1, 2,4,7,10)
HGAK	1/2AK6		87	2					1U(HGAK)	GRD			0		29	27.5	MOUNTED WITH (HGBK)
HGBK	1/2AK6		87	2					1L(HGBK)	GRD			0		29	27.5	MOUNTED WITH (HGAK)
HGK	U180		7	132/111	H	47			T(HGK)	GRD			0		16.5	15.5	
HK	U580		20	132/132	H	47			T(HK)	GRD			0		17.5	16.5	
HMS1	U580	IC	15	132/132	H	47			T(HMS1)	GRD			0		17.5	16.5	
HMS1	U254	ID	15	108/108	H	47			T(HMS1)	GRD			0		17.5	16.5	
HMSA	U1013	UY	9	160/120	H	47	(KR1)O		TF(HMSA)	GRD		P	O		20.5	19.5	
									TR(HMSA)	GRD		S	0		21		
HN	U65		20	113/113	H	29			T(HN)	GRD			0		20.5	19.5	WDG ALONE
													0		48	43.5	PAR.COMB.OF (HN) AND (TH)
IAO	U65	OH	3	113/113	H	29	(KR)O		T(IAO)	GRD			0		20.5	19.5	
IAO	U591	OI	3	119/113	H	35	(KR)O		T(IAO)	GRD			0		26.5	25	
IAOI	AJ15	ZUE	1	249					U(IAOI)	GRD			0		43	40.5	
IAOB	AJ15		135	249			(KR3)O		U(IAOB)	GRD			0		43	40.5	
IAOC	1/2AK22		149	216					1L(IAOC)	GRD			0		27.5	26	MOUNTED WITH (TOC)
IAOF	AJ15		135	249			(KR3)O										
ID	AF105		87	253				L(ID)									
IDST	AF134		87	230			(KR)O		U(IDST)	GRD			O		10.3	9.8	
IDT	1/2AK6		87	2					1L(IDT)	GRD			0		29	27.5	MOUNTED WITH (VFIK)
IEC	AF111		127	270			(KR3)O		U(IEC)	GRD			0		43	40.5	
IFL	1/2AK30		155	202			(KR)O		1L(IFL)	GRD			0		23.5	22	MOUNTED WITH (SNR)
IK	U580		125	132/132	H	47			T(IK)	GRD			0		17.5	16.5	
IMS	U65		22	113/113	H	29	(KR)O		T(IMS)	GRD			0		20.5	19.5	
IMS1	U1317		22	117/148	H	47		B(IMS1)		BAT.			0		19	18	
IMT	U65		41	113/113	H	29	(KR)O		T(IMT)	GRD			0		20.5	19.5	
IMT1	U81		41	113/113	H	29			T(IMT1)	GRD			0		22	20.5	

DRAWING ISSUE: 53D EM, VNU, AHK; 57A JBT, FMU, AHK; 58D JLR, AHK; 59A JLR, AHD; 63D JMS, PSC, AHD; 64A JMS, PSC, AHD; 67D SLK; 71D AB; 73D; 74A; 78D; 80D; 81A; 82D

CIRCUIT REQUIREMENTS

APPARATUS DESIG	CODE	OPT.	FIG.	MECH REQT BSP FIG.	CONT PRES	ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
INC	U136	RS	2	112/109	H	29	(KR)O		T(INC)	GRD			0		17.5	16.5	
INC	U65	RT	2	113/113	H	29	(KR)O		T(INC)	GRD			0		20.5	19.5	
IOO	UF113	OK	7	114/114	H	50			T(IOO)	GRD			0		22.5	21	
IR	U601	XI	2	117/148	H	47	(SR)O		T(IR)	GRD			0		19	18	
IRL	1/2AK30		155	202					1L(IPL)	GRD			0		23.5	22	MTD WITH SPARE
IRPT	AJ15		153	249			(KR1)O		U(IRPT)	GRD			0		43	40.5	
IT	U1261	ZZL	3	150/117	H	50				GRD			0		13.3	12.6	WDG ALONE
									T(IT)	GRD			0		71.5	68	PAR. COMB. (IT)&(ITI)
IT	U1031	ZZM	3	210/210	H	44				GRD			0		13	12.3	WDG ALONE
									T(IT)	GRD			0		69.5	66	PAR. COMB. (IT)&(ITI)
ITI	AJ15	ZTG	1	249						GRD			0		43	40.5	WDG ALONE
									U(ITI)	GRD			0		57.5	54.5	PAR.COMB.(ITI)&(IT)
ITDO	U65		3	113/113	H	29	(KR)O		T(ITDO)	GRD			0		20.5	19.5	
ITNP	U1181		3	161/172	H	53	(KR)O		T(ITNP)	GRD			0		24	22.5	
ITP	U65	ZO	3	113/113	H	29	(KR)O		T(ITP)	GRD			0		20.5	19.5	
ITR	1/2AK30		156	202			(KR)O		1L(ITR)	GRD			0		23.5	22	MTD WITH (RL)
ITRK	U127		51	148/108	H	47			TF(ITRK)	GRD		P	0		22	20.5	
									TR(ITRK)	GRD		S	0		18		
JHM	U460		13	108/108	H	47			T(JHM)	GRD			0		11.2	10.6	
JSF	AJ511		135	206			(KR3)O	1L(JSF)		BAT.		P	0		21	20	
							(KR3)O	1L(JSF)		BAT.		F	H		11.6	11	
							(KR3)O		2U(JSF)	GRD		S	0		22.5		
JSF1	AJ15		135	249			(KR3)O		U(JSF1)	GRD			0		43	40.5	
JXW	1/2AK30		135	202					1L(JXW)	GRD			0		23.5	22	MTD WITH(LXW)
K	U81		4	113/113	H	29			1L(K)	GRD			0		22	20.5	
KI	U476		4	132/136	H	47				GRD			0		18.5	17.5	WDG ALONE
									T(KI)	GRD			0		85	80	PAR. COMB.WITH (K3)
													NO		11.2	11.8	
K1A	1/2AK30		167	202					1U(K1A)	GRD			0		23.5	22	MTD WITH (K2A)
K2	U476		4	132/136	H	47			T(K2)	GRD			0		18.5	17.5	
													NO		11.2	11.8	
K2A	1/2AK30		167	202			3B(KC)		1L(K2A)	GRD			0		23.5	22	MTD WITH (K1A)
K3	AJ12	ZSO	4	220						GRD			0		43	40.5	WDG ALONE
									U(K3)	GRD			0		61	58	PAR. COMB. WITH (KI)
KA	U238		4	117/145	H	47			T(KA)	GRD			0		19.5	18.5	
KACN	AJ202		93	500					U(KACN)	GRD			0		43	40.5	
KB, KC	U238		4	117/145	H	47			T REL TST	GRD			0		19.5	18.5	
KCCN	AJ202	IT	41	500					U(KCCN)	GRD			0		43	40.5	
KCH	U1329		10	145/120	H	47			T(KCH)	GRD			0		9.1	9.6	
KCN	U81	LX	45	113/113	H	29			T(KCN)	GRD			0		22	20.5	
KCN1	U1301	LX	45	123/123	H	29			T(KCN1)	GRD			0		14.1	13.4	
KCS0, KCS1, KCS2	U106	ZG, YZ, ZH	7	113/135	H	44			T REL TST	GRD			0		22.5	21	
KCS3	U57		7	112/112	H	29				GRD	1		0		20	19	WDG ALONE
									T(KCS3)	GRD	2		0		53	50.5	PAR.COMB.OF(KCS3) AND(KCS6)
KCS4	U1113		37	114/114	H	50			T(KCS4)	GRD			0		22.5	21	
KCS5	U106	RH	7	113/135	H	44			T(KCS5)	GRD			0		22.5	21	
KCS6	U106	CD	7	113/135	H	44				GRD			0		22.5	21	WDG. ALONE
									T(KCS6)	GRD			0		42	40	PAR. COMB. OF (KCS3)&(KCS6)
KD, KE, KF	U119	Z, Y	4	145/123	H	47			T REL TST	GRD			0		16	14.9	
KF2	U1324	H	13	163/163	H	59			T(KF2)	GRD			0		23	21.5	
KFS	U539, U1323		9	118/108	H	50			T(KFS)	GRD			0		13	12.3	
KFTU	U57		6	112/112	H	29			T(KFTU)	GRD			0		20	19	
KFU	U57		6	112/112	H	29			T(KFTU)	GRD			0		44	42	PAR. COMB. OF (KFU) & (KV1)
													0		20	19	WDG ALONE

DRAWING ISSUE: 53D EM, VNU, AHK; 57A JBT, FMU, AHK; 58D JLR, AHK; 59A JLR, AHD; 63D JMS, PSC, AHD; 64A JMS, PSC, AHD; 67D SLK; 71D AB; 73D; 74A; 78D; 80D; 81A; 82D

TEST NOTES:

1. USE WINDING ALONE CURRENT VALUE WHERE "RH" OPTION IS NOT FURNISHED.
2. USE CKT COMB. CURRENT VALUE WHERE "RH" OPTION IS FURNISHED.

ISSUE 107A

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
KG,	U119	X	4	125/123	H	47			T REL	GRD			0		18	14.9	
KH		W	4						TST								
KHGA	U57		6	112/112	H	29							0		20	19	WDG ALONE
									T (KHGA)	GRD			0		445	425	PAR. COMB. OF (KHGA) & (KTBS)
KHGT	U1325		6	113/113	H	29		B (KHGT)		BAT.			0		47.5	45	
KIC	U81	NT	11	113/113	H	29			T (KIC)	GRD	1		0		22	20.5	
									T (KIC)	GRD			0		49	46	PAR.COMB. OF (KIC) & (KIC1)
KIC1	U144	YY	11	113/113	H	29			T (KIC1)	GRD			0		22	20.5	WDG ALONE, (KIC) NOT PROVIDED
									T (KIC1)	GRD			0		49	46	PAR.COMB. OF (KIC) & (KIC1)
KINC	U81		13	113/113	H	29			T (KINC)	GRD			0		22	20.5	
KINC1	V2AK34		55	15					IL(KINC1)	GRD			0		14.9	14.2	MOUNTED WITH (CDN)
KITC	U81		13	113/113	H	29			T (KITC)	GRD					22	20.5	
KJ	U119	V	4	125/123	H	47			T (KJ)	GRD			0		18	14.9	
KJSQ	U128		10	121/121	H	53			T (KJSQ)	GRD			0		18.5	17.5	
KK	U101	FG	4	117/109	H	47			T (KK)	GRD			0		18	17	
KK,	U119	U	4	125/123	H	47			T PEL	GRD			0		16	14.9	
KL		T	4						TST								
KLI	AJ202		87	500					U(KLI)	GRD			0		43	40.5	
KLL	AF132	IN	86	61					U(KLL)	GRD			0		34.5	32.5	
KLT	U136	WA	13	112/109	H	29			T (KLT)	GRD			0		17.5	16.5	
KLT	U144	W8	13	113/113	H	29			T (KLT)	GRD			0		22	20.5	
KLTI	U81		11	113/113	H	29			T (KLTI)	GRD			0		22	20.5	
KM	AJ84	ZS0	4	301					U (KM)	GRD			0		12.9	12.2	
KMB	U57	N	12	112/112	H	29							0		20	19	WDG ALONE
									T (KMB)	GRD			0		44	42	PAR. COMB. OF (KMB) & (KRN)
KMT9	U138		9	127/127	H	47	10T(KMT9)		T (KMT9)	GRD			0		13.6	12.9	
KNT	U57		18	112/112	H	29			T (KNT)	GRD			0		20	19	
KOR	U81		17	113/113	H	29			T (KOR)	GRD			0		22	20.5	
KOR1	U57	N	17	112/112	H	29			T (KOR1)	GRD			0		20	19	
KOS	U55		8,35	117/145	H	47			T(KOS)	GRD			0		9.3	8.8	
KOSA	U65		W	113/113	H	29			T (KOSA)	GRD			0		20.5	19.5	
KOSA	AJ202		X	500					U (KOSA)	GRD			0		43	40.5	
KOSG	U65		8,W	113/113	H	29			T (KOSG)	GRD			0		20.5	19.5	
KPBX	U81		18	113/113	H	29			T (KPBX)	GRD			0		22	20.5	
KPD	U64		112	113/113	H	29							0		20.5	19.5	WDG ALONE
									T(KPD)	GRD			0		64	60.5	PAR. COMB. OF (KPD), (KPD1) & (MC4)
KPD1	U64		112	113/113	H	29							0		20.5	19.5	WDG ALONE
									T(KPD1)	GRD			0		64	60.5	PAR. COMB. OF (KPD), (KPD1) & (MC4)
KR,	U59		1	124/124	H	59							0		31	29.5	WDG ALONE
KR1									T REL	GRD			0		69.5	66	PAR. COMB. OF (KR) & (KR1)
									TST								
KR2	U254		20	108/108	H	47			T(KR2)	GRD			0		17.5	16.5	
KR3	AJ12	ZZK	1	320			(MFC1)NO		U(KR3)	GRD			0		43	40.5	
KRA	U351	ZZF	9	118/145	H	50			T(KRA)	GRD			0		20.5	19.5	
KRA	U1289	ZZG	9	114/118	H	50			T(KRA)	GRD			0		25	23.5	
KRC1	U81		7	113/113	H	29							0		22	20.5	WDG ALONE
									T(KRC1)	GRD			0		49	45.5	PAR. COMB. OF (KRC1) & (KRC2)

TEST NOTES:
1. WDG. ALONE (KIC1) REL. NOT PROVIDED

DRAWING ISSUE: 51D GAV KMA AHD; 53D JR KMA AHD; 56D JNT KMA AHD; 58D JHB MB AHD JLB; 59A MB AHD; 61A WLW SAV AHD; 63D JR AEC AHD JWS; 64A AEC AHD JPK; 66A LB AHD; 67D JER; 68A JER; 69 EM; 78D; 79A; 82D; 83A

MASTER TEST CONTROL CIRCUIT	SD-25800-01-F6
BELL TELEPHONE LABORATORIES INCORPORATED	PRINTED IN U. S. A.

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CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
KRC2	U238		7	117/145	H	47							0		13.5	18.5	WDG ALONE
									T (KPC2)	GRD			0		44	41.5	PAR. COMB OF (KRC1) & (KRC2)
KRN	U1301	N	13	123/123	H	29							0		14.1	13.4	WDG ALONE
									T (KRN)	GRD			0		31.5	30	PAR. COMB. OF (KRN) & (KMB)
KRS	U81		13	113/113	H	29			T (KRS)	GRD			0		22	20.5	
KSK	AJ12		98	220				(KR1) O	U (KSK)	GRD			0		43	40.5	
KSK1	AJ504		98	57					U(KSK1)	GRD			0		11.8	11.2	
KTBS	U1172		58, 65	150/109	H	50			T(KTBS)	GRD			0		20	19	WDG ALONE
													0		44.5	42.5	PAR. COMB. OF (KTBS) & (KHGA)
KTF	U136		9	112/109	H	29			T(KTF)	GRD			0		17.5	16.5	
KTN	U57	M	12	112/112	H	29							0		20	19	WDG ALONE
									T(KTN)	GRD			0		45	42.5	PAR.COMB. OF (KTN)&(KTN1)
KTN1	U1301	LI	12	123/123	H	29							0		14.1	13.4	WDG ALONE
									T(KTN')	GRD			0		31.5	29.5	PAR.COMB. OF (KTN1)&(KTN)
KTN1	U57	LJ	12	112/112	H	29							0		20	19	WDG ALONE
									T(KTN1)	GRD			0		44.5	42.5	PAR.COMB. OF (KTN1)&(KTN)
KTN2	U144	M	11	113/113	H	29							0		22	20.5	WDG ALONE
									T(KTN2)	GRD			0		48.5	45.5	PAR.COMB. OF (KTN2)&(KTN3)
KTN3	U144		49	113/113	H	29			T(KTN3)	GRD			0		22	20.5	
KTN4	AF132		56	61					U(KTN4)	GRD			0		34.5	32.5	
KTN5	AF111		99	270					U(KTN5)	GRD			0		43	40.5	
KTN6	AF24	ZRA	1	8					U(KTN6)	GRD			0		30.5	29	
KTN7	AF24		135	8					U(KTN7)	GRD			0		30.5	29	
KTN8	AF24	ZPI	135	8					U(KTN8)	GRD			0		30.5	29	
KTN8A	AF24	ZPI	135	8					U(KTN8A)	GRD			0		30.5	29	
KTNA	U144	LN	11	113/113	H	29							0		22	20.5	WDG ALONE
									T(KTNA)	GRD			0		48.5	45.5	PAR. COMB. (KTNA) & (KTN2)
KTS	U1329		9	145/120	H	47			T(KTS)	GRD			0		9.1	8.6	
KTSQ	1/2AK30		160	202					IL(KTSQ)	GRD			0		23.5	22	MTD WITH (KTSQA)
KTSQA	1/2AK30		160	202					IU(KTSQA)	GRD			0		23.5	22	MTD WITH (KTSQ)
KTV	U65		20	113/113	H	29			T(KTV)	GRD			0		20.5	19.5	
KV	U1391		6	123/123	H	29			T (KV)	GRD			0		14.3	13.6	
KV1	U57	UK	6	112/112	H	29			T (KV1)	GRD			0		44	42	PAR COMB OF (KFU) & (KV1)
													0		20	19	WDG ALONE
KVI	U81	UL	6	113/113	H	29							0		22	20.5	WDG ALONE
									T (KVI)	GRD			0		48	45.5	PAR. COMB. OF (KVI) & (KFU)
KVFI	U238		8	117/145	H	47			T (KVFI)	GRD			0		19.5	18.5	
KVG1, KVG2	U144								T REL TST	GRD			0		22	20.5	WDG ALONE
													0		49	45.5	PAR. COMB. OF (KVG1) & (KVG2)
KVG3	U57		6	112/112	H	29							0		20	19	WDG ALONE
									T (KVG3)	GRD			0		44	42	PAR COMB OF (KVG3) & (KVG4)
KVG4	U13C1		6	123/123	H	29							0		14.1	13.4	WDG ALONE
									T (KVG4)	GRD			0		31.5	30	PAR. COMB OF (KVG4) & (KVG2)
KVHG	U81		6	113/113	H	29			T (KVHG)	GRD			0		22	20.5	
L1	PART OF		127				68(DR1)		15(L1)	GRD	1		0		10		SEE AR,BR,CR, & L2 RELS
L2	293C		127						25(L2)	GRD	1		0		10		SEE AR,BR,CR, & L1 RELS
LBH	AF85	ZWJ	118	401					U(LBH)	GRD			0		36	34	
LBS	AF57	ZWJ	118	210			68(LBH), (LBH) NO		U(LBS)	GRD			0		27	25.5	
LC	U165		13	132/101	H	47		B(LC)		BAT.			0		19	18	
LCP	AJ12		127	220			(KR3)O		U(LCP)	GRD			0		43	40.5	
LF	239HL OR 280AS	B ZR	16	8				5T(KNT)	5B(M)	B/G		P	0	-55		1.3	
								5T(KNT)	5B(M)	B/G		P	NO	-55		0.9	
								5T(KNT)	5B(M)	B/G		P	0	-55	5	4.7	
								5T(KNT)	5B(M)	B/G		P	R	+55	1	1.1	
								5T(KNT)	9B(KNT)	B/G		S	0		11.5		
LF1	U1324	B,ZR	16	163/163	H	59	(KR)O, 2B(MPT)		T(LF1)	GRD			0		23	21.5	
LFTO-5	AJ12		90	220					U REL TST	GRD			0		43	40.5	
LHC	U721	VU	2	121/121	H	50			T(LHC)	GRD			0		22	20.5	

TEST NOTES:
1. FOR TESTING PROCEDURE SEE INFORMATION NOTE 321.

DRAWING ISSUE: 51D GAV KMA AHD; 53D JR KMA AHD; 56D JNT KMA AHD; 58D JHB MB AHD JLB; 59A MB AHD; 61A WLW SAV AHD; 63D JR AEC AHD JWS; 64A AEC AHD JPK; 66A LB AHD; 67D JER; 68A JER; 69 EM; 78D; 79A; 82D; 83A

ISSUE 96B

MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-F6
BELL TELEPHONE LABORATORIES INCORPORATED	SHEET 6S; PRINTED IN U. S. A.

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
LHM	U541		14		132/111	H	47			T(LHM)	GRD			0		15	14.2	
										T(LHM)	GRD			NO		9.9	10.5	
LHMA	U541	RS	14		132/111	H	47			T(LHMA)	GRD			0		15	14.2	
LHMA	U112	RT	14		123/111	H	29			T(LHMA)	GRD			NO		9.9	10.5	
										T(LHMA)	GRD			0		12.2	11.6	
LHMT	280Y		38		B				3B(MKT3)	6T(MKT3)	NGB		?	0	-45		1.1	
									3B(MKT3)	6T(MKT3)	NGB		P	NO	-45		0.8	
									3B(MKT3)	6T(MKT3)	NGB		P	0	-45	5.2	4.9	
									3B(MKT3)	6T(MKT3)	NGB		P	NO	+45	2.7	2.9	
									3B(MKT3)	6T(MKT3)	NGB		P	R	+45	1.2	1.3	
									5T(MKT3)	6T(MKT3)	NGB	1	P/S	0		0.8		
L1	U1321		M		180/153	H	53			TF(L1)	GRD		P	0		26.5	25	
										TR(L1)	GRD		S	0		20.5		
L1A	AF20	ZWI	106		205			1(L1A),(KR)0		U(L1A)	GRD			0		37.5	34	
L1DF	1/2AK6		87		2					1U(L1DF)	GRD			0		29	27.5	MOUNTED WITH (L1DM)
L1DM	1/2AK6		87		2					1L(L1DM)	GRD			0		29	27.5	MOUNTED WITH (L1DF)
L1K1,2,3	AJ5		87		220									0		13.3	12.6	WDG ALONE
										U REL TST	GRD			0		46	43.5	PAR. COMB. OF (L1K1) (L1K2) & (L1K3)
L1P	1/2AK22		174		216			3T(MTCP)	2U(L1P)	1U(L1P)	NGB			0		27	26	MTD WITH SPARE
L1P	1/2AK22	ZMG	154		216					1L(L1P)	GRD	7		0		27	26	MTD WITH (PR)
L1TR	1/2AK8		87		204					1L(L1TR)	GRD			0		17	16	MOUNTED WITH (TRIC)
LK	AG21		114	*	2828					1U(LK)	GRD	4	P	0		48.5	46	
										1U(LK)	GRD	4	P	H		6	5.7	
										1U(LK)	GRD	4	P	R		3.9	4.6	
								2(LK)	2L(LK)	2U(LK)	B/G	4	S	0		60.5	57.5	
LK1	U419		14		132/111	H	47			T(LK1)	GRD			0		16	14.8	
										TF(LK2)	GRD		P	0		24.5	23	
										TR(LK2)	GRD		S	0		19		
LL0,1,2,4,7	1/2AK6		87		2					1U REL TST	GRD			0		29	27.5	MOUNTED WITH (VFO-4)
LLAK	1/2AK6	FZ	87		2					1U(LLAK)	GRD			0		29	27.5	MOUNTED WITH (LLBK)
LLBK	1/2AK6	FZ	87		2					1L(LLBK)	GRD			0		29	27.5	MOUNTED WITH (LLAK)
LLES	U67		76		145/108	H	47	(KR)0		T(LLES)	GRD			0		18	17	
LLF	AF73		99		203			(KR)0		1U(LLF)	GRD		P	0		15.5	14.5	
										2U(LLF)	GRD		S	0		16.5	15.5	
LLIK	U1019	ZOZ	13		145/145	H	47		B(LLIK)		BAT.			0		19.5	18.5	OPTION BO PROVIDED
										T(LLIK)	GRD			0		19.5	18.5	OPTION BP PROVIDED
LLJ	280Y		38		B				1B(MKT3)	6T(MKT3)	NGB		P	0	-45		1.1	
									1B(MKT3)	6T(MKT3)	NGB		P	NO	-45		0.8	
									1B(MKT3)	6T(MKT3)	NGB		P	0	-45	5.2	4.9	
									1B(MKT3)	6T(MKT3)	NGB		P	NO	+45	2.7	2.9	
									~~1B(MKT3)~~	6T(MKT3)	NGB		P	R	+45	1.2	1.3	
									3T(MKT3)	6T(MKT3)	NGB	2	P/S	0		0.8		
LLP	U36		60		168/152	H	50			T(LLP)	GRD			0		26	24.5	
LLP	U535		178		125/140	H	62			T(LLP)	GRD			0		34.5	32.5	
LLP1	U611		178		139/139	H	59			T(LLP1)	GRD			0		30	28.5	
LLP1, LLP2	U611		60		139/139	H	59							0		30	28.5	WDG ALONE
										T REL TST	GRD			0		95	90	PAR.COMB.OF (LLP1), (LLP2) & (LLP3)
LLP2	U1290		178		167/139	H	65			T(LLP2)	GRD			0		33	31	
LLP3	U81		60		113/113	H	29							0		22	20.5	WDG ALONE
										T(LLP3)	GRD			0		95	90	PAR.COMB.OF (LLP1), (LLP2) & (LLP3)
LLP3	U81		178		113/113	H	29			T(LLP3)	GRD			0		22	20.5	
LLPA	AJ15	ZTZ	60		249									0		43	40.5	WDG ALONE
								(KR)0		U(LLPA)	GRD			0		69	65	PAR.COMB.WITH (LLPK)
LLPK	U1099		60		195/195	H	47						P	0		18.5	17.5	WDG ALONE
								(KR)0		TF(LLPK)	GRD		P	0		62	58.5	PAR.COMB.WITH (LLPA)
								(KR)0		TR(LLPK)	GRD		S	0		22.5	21	
LLPK	U675		178		161/178	H	53			T(LLPK)	GRD			0		35	33	
LLPV	AJ94		60		320			(KR)0		U(LLPV)	GRD			0		34	32	
LLS	AJ12		133		220					U(LLS)	GRD			0		42.5	40.5	
LO	AJ75	GS	49		291					U(LO)	GRD			0		6.9	6.5	
LOK	1/2 AK30		146		202					1U(LOK)	GRD			0		23.5	22	MOUNTED WITH (NCWC)
LOL	1/2 AK30		109		202					1U(LOL)	GRD			0		23.5	22	MOUNTED WITH (NOL)
LOLP	AF57		109		210			(KR)0		U(LOLP)	GRD			0		27	25.5	
LP	U199		34		121/121	H	50			7T(LP)	GRD	3		0		11	10.4	
LPO	1/2AK6		98		2			(KR)0		1U(LPO)	GRD			0		29	27.5	MOUNTED WITH (LPI)
LPI	1/2AK6		98		2			(KR)0		1L(LPI)	GRD			0		29	27.5	MOUNTED WITH (LPO)
LP2	1/2AK6		98		2			(KR)0		1U(LP2)	GRD			0		29	27.5	MOUNTED WITH (FO)
LPCK	AJ15		135		249			(KR)0		U(LPCK)	GRD			0		43	40.5	
LPNA	U81		178		113/113	H	29			T(LPNA)	GRD			0		22	20.5	
LPNB	AF132		178		61					U(LPNB)	GRD			0		34.5	32.5	
LR	AF79		87		205			A(LR)	L(LR)	U(LR)	B/G			0		10.2	9.2	
								A(LR)	L(LR)	U(LR)	B/G			NO		4.2	4.5	
LRR	1/2 AK7	BR	60		203			(LLPV)0	2U(LRR)	1U(LRR)	B/G			0		27	25.5	MOUNTED WITH (LRS)
LRS	1/2 AK7	BR	60		203			I(LRS)		1L(LRS)	GRD			0		28	25.5	MOUNTED WITH (LRR)
LS	U1228	M	13		111/101	H	29	2-3a(NTC1)		T(LS)	GRD			0		6.3	6	
LSS	1/2AK30	ZPI	135		202					1L(LSS)	GRD			0		23.5	22	MTD WITH (6STK)
LT	U119		J		145/123	H	47	(KR)0		T(LT)	GRD			0		16	14.9	
LT	U1181		K		161/172	H	53	(KR)0		T(LT)	GRD			0		24	22.5	

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
LT1	U1317	DF	3		117/148	H	47		B(LT1)		BAT.			0		19	18	
LT1	U953	DG	3		207/197	H	SPL		B(LT1)		BAT.	6		0		27.5	26	
LV	U1181		3		161/172	H	53	(KR)0		T(LV)	GRD			0		24	22.5	
LV0	1/2AK30		146		202			(KR)0		1L(LV0)	GRD			0		23.5	22	MOUNTED WITH (RLM)
LV1	U648	SM	3		163/189	H	59		B(LV1)		BAT.			0		31.5	30	
LV1	U378	U1	3		108/132	H	47		B(LV1)		BAT.			0		29	27.5	
LV1	U1354	SG	3		108/108	H	47		B(LV1)		BAT.			0		31	29.5	
LV2	U947		8		124/167	H	65	(KR)0		T(LV2)	GRD			0		24	22.5	
LV3	U54		8		119/113	H	35	(KR)0		T(LV3)	GRD			0		11	10.4	
LV4	U947		8		124/167	H	65	(KR)0		T(LV4)	GRD			0		24	22.5	
LV5	U438		8		127/127	H	47	(KR)0		T(LV5)	GRD			0		13.6	12.9	
LV6	U55		8		117/145	H	47							0		9.3	8.8	WDG ALONE
										T(LV6)	GRD			0		49.5	47	PAR. COMB. (LV6)&(LV6A)
LV6A	U1182	ZSI	8		197/161	H	59							0		31.5	30	WDG ALONE
										T(LV6A)	GRD			0		42	40	PAR. COMB. (LV6)&(LV6A)
LV7	U1288		20		178/135	H	47			T(LV7)	GRD			0		21	20	
LV8	U1301		20		123/123	H	29			T(LV8)	GRD			0		14.1	13.4	
LVP	U582		39		126/118	H	59	5.6T(ATTP)		T(LVP)	GRD			0		27	25.5	
LVP	1/2AK22		154		216					1U(LVP)	GRD	7		0		27.0	26.0	MTD WITH ATTP
LWLF	AJ127		135		252			8B(LWLP)(KR3)0	L(LWLF)	U(LWLF)	B/G			0		13.1	12.4	
LWLP	AJ15		135		249			12M(LWLP)		U(LWLP)	GRD			0		44	40.5	
LXW	1/2AK30		135		202					1U(LXW)	GRD			0		23.5	22	MTD WITH JXW
M	U1319	B,ZP	16		117/148	H	47	(KR)0		T(M)	GRD			0		12.3	11.7	
MA	AF13		127		215			(KR3)0		U(MA)	GRD			0		13.1	12.4	
														R		3.9	4.2	
MBC	1/2AK30		135		202					1L(MBC)	GRD			0		24.5	22	MTD WITH (WBTK)
MC, MC1	U81		1		113/113	H	29			T REL TST	GRD			0		22	20.5	
MC2	U144		1		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC2)	GRD			0		48.5	45	PAR. COMB. (MC2)&(MC21)
MC3	U81		2		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC3)	GRD			0		58.5	54.5	PAR. COMB. OF (MC3) & (MC17)
MC4	U81		2		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC4)	GRD			0		95	90	PAR. COMB. OF (MC4) (KPD) & (KPD1)
MC5	U81		3		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC5)	GRD			0		49	45.5	PAR. COMB. OF (MC5) & (MC18)
MC6	U81		9		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC6)	GRD			0		49	46	PAR. COMB. OF (MC6) & (MC16)
MC7	U81		15		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC7)	GRD	5		0		58.5	54.5	PAR. COMB. OF (MC7) & (MC12)
MC8	U81		8		113/113	H	29			T(MC8)	GRD			0		22	20.5	
MC9	U144		H		113/113	H	29			T(MC9)	GRD			0		22	20.5	
MC10	U81		48		113/113	H	29			T(MC10)	GRD			0		22	20.5	
MC11	U834		41		109/123	H	29			T(MC11)	GRD			0		21	20	
MC12	U81	EU	94		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC12)	GRD			0		49	47	PAR. COMB. OF (MC12) & (MC13)
MC12	AF24	EV	94		8									0		30.5	29	WDG ALONE
										U(MC12)	GRD	5		0		58	55	PAR. COMB. OF (MC12) & (MC7)
MC13	U81		51		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC13)	GRD			0		49	47	PAR. COMB. OF (MC13) & (MC12)
MC14	U1113	LW	15		114/114	H	50			T(MC14)	GRD			0		22.5	21	
MC15	U81		49		113/113	H	29			T(MC15)	GRD			0		22	20.5	
MC16	U1391		97		123/123	H	29							0		14.3	13.6	WDG ALONE
										T(MC16)	GRD			0		32	30.5	PAR. COMB. OF (MC16) & (MC6)

TEST NOTES:

1. STRAP 3B(MKT3) TO 6B(MKT3).
2. STRAP 1T(MKT3) TO 1B(MKT3).
3. FOR PAR. COMB. WITH (LP) RELAYS OF MARKERS, MULTIPLY VALUES FOR RELAY ALONE BY NO. OF MARKERS PLUS ONE. ALL (LP) KEYS SHALL BE IN THE "IN" POSITION.
4. ARMATURE BACK TENSION MAXIMUM 80 GRAMS READJUST, 85 GRAMS TEST.
5. ER AND EV OPTIONS ARE PROVIDED.
6. ARMATURE TRAVEL SPL MAXIMUM 59; WAIVE "NO MAKE REQUIREMENTS" ON CONTACTS (2T-3T)
7. BLOCK 9GH OPERATED, BLOCK 9GA NOT OPERATED, AND INSULATE TIP OF MTCP.

DRAWING ISSUE

63D	IEM, IFC, AMC, IEM
64A	IFA, AMC
66A	IFA, IFB, AMC
67D	MCM
68A	MCM
69D	CM
70A	CM
71D	AS
74A	
76D	
77A	
78D	
80D	
81A	
82D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F7

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-F7

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
MC17	AF24		55		8									0		30.5	29	WDG ALONE
										U(MC17)	GRD			0		58	55.5	PAR. COMB. WITH (MC3)
MC18	U81	KP	1		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC18)	GRD			0		49	45.5	PAR. COMB. WITH (MC5)
MC19	AF24		87		8					U(MC19)	GRD			0		30.5	29	
MC20	AF24		98		8					U(MC20)	GRD			0		30.5	29	
MC21	U81	ZWG	11		113/113	H	29							0		22	20.5	WDG ALONE
										T(MC21)	GRD			0		48.5	45	PAR. COMB. WITH (MC2)
MC22	AF24	ZVG	1		8					U(MC22)	GRD			0		30.5	29	WDG ALONE
																68	65	PAR. COMB. WITH (MC24)
MC23	AF24	ZQR	1		8									0		30.5	29	WDG ALONE
										U(MC23)	GRD			0		58	55.5	PAR. COMB. OF (MC3) & (MC23)
										U(MC23)	GRD			0		64	60.5	PAR. COMB. OF (MC3,MC23,MC17)
MC24	AF24	ZJC	1		8					U(MC24)	GRD			0		30.5	29	WDG ALONE
																68	65	PAR. COMB. WITH (MC22)
MFC	U57	XN	1		112/112	H	29			T(MFC)	GRD			0		20	19	
MFC	U794	XO	1		119/119	H	35			T(MFC)	GRD			0		22.5	21	
MFC1	U88		1		125/124	H	62			T(MFC1)	GRD			0		34	32	
MFC2	AJ15	ZTK	1		249									0		43	40.5	WDG ALONE
										U(MFC2)	GRD			0		95	90	PAR. COMB. WITH (MFC1)
MISC	U65		3		113/113	H	29	(KR)O		T(MISC)	GRD			0		20.5	19.5	
MKT1	U1363	UI	2		112/134	H	35		B(MKTI)		BAT.			0		21	20	
MKT1	U794	UJ	2		119/119	H	35		B(MKTI)		BAT.			0		22.5	21	
MKT2	U588		2		119/119	H	35							0		13.7	13.1	WDG ALONE
										T(MKT2)	GRD			0		31.5	30	PAR. COMB. WITH (MKT3)
										T(MKT2)	GRD			0		49.5	47.5	PAR. COMB. WITH (MKT4)
										T(MKT2)	GRD			0		66	63	PAR. COMB WITH (MKT3)
MKT3	U495		38		113/113	H	29							0		17.5	16.5	WDG ALONE
										T(MKT3)	GRD			0		39	37	PAR. COMB. WITH (MKT2)
										T(MKT3)	GRD			0		90	85	PAR. COMB.WITH (MKT4)
MKT4	AJ15	ZTF	1		249									0		43	40.5	WDG ALONE
										U(MKT4)	GRD			0		67	64	PAR. COMB. WITH (MKT2)
										U(MKT4)	GRD			0		95	90	PAR. COMB. WITH (MKT3)
MLVF	U1301		L,M		123/123	H	29	(KR)O		T(MLVF)	GRD			0		14.1	13.4	
MLVM	U1301		L		123/123	H	29	(KR)O		T(MLVM)	GRD			0		14.1	13.4	
MLVM	U675		M		161/178	H	53	(KR)O		T(MLVM)	GRD			0		35	33	
MOI	U1317		1		117/148	H	47			T(MOI)	GRD			0		19	18	
MPT	U224	B,ZR	16		118/148	H	50	(KR)O		TR(MPT)	GRD		P	0		25.5	24	
								(KR)O		TR(MPT)	GRD		S	0		20.5		
MPTA	U679	YD	16		108/108	H	47	(KR)O		T(MPTA)	GRD			0		18.5	17.5	
MRL	U103		1		108/108	H	47			TF(MRL)	GRD		P	0		20	19	
										TR(MRL)	GRD		S	0		16.5		
MS	U1298		1		121/106	H	50		B(MS)		BAT.			0		43.5	41	
MSI	U238		1		117/145	H	47			T(MSI)	GRD			0		19.5	18.5	
MTBK	U168		10		108/106	H	47			T(MTBK)	GRD			0		19.5	18.5	
MTCP	U601		27		117/148	H	47			T(MTCP)	GRD			0		19	18	
MTCP	AJ15		154		249					U(MTCP)	GRD			0		42.5	40.5	
MTT	U69		24		141/172	H	53			T(MTT)	GRD			0		26	24.5	
MTTA	AJ15		114		249					U(MTTA)	GRD			0		43	40.5	
MTTK	AJ15		99		249					U(MTTK)	GRD			0		43	40.5	
N	U75		3		132/132	H	47		B(N)		BAT.			0		11.1	10.5	
NI	U809	YR	3		112/117	H	47			T(NI)	GRD			0		20	19	
										T(NI)	GRD			R		4.5	4.8	
NI	U64	YS	3		113/113	H	29			T(NI)	GRD			0		20.5	19.5	
										T(NI)	GRD			R		5.5	5.8	
N2	AJ15	ZUA	1		249					U(N2)	GRD			0		43	40.5	
NA	U57		5		112/112	H	29							0		20	19	WDG ALONE
										T(NA)	GRD			0		45	42.5	PAR. COMB. WITH (NAI)
NAI	U81		5		113/113	H	29			T(NAI)	GRD			0		49	45.5	PAR. COMB. WITH (NA)
NB	U57	Q	5		112/112	H	29							0		20	19	WDG ALONE
										T(NB)	GRD			0		45	42.5	PAR. COMB. WITH (NBI)
NBI	U81	Q	5		113/113	H	29							0		22	20.5	WDG ALONE
										T(NBI)	GRD			0		49	45.5	PAR. COMB. WITH (NB)
NC	U57	R	5		112/112	H	29							0		20	19	WDG ALONE
										T(NC)	GRD			0		45	42.5	PAR. COMB. WITH (NCI)
NCI	U81	R	5		113/113	H	29							0		22	20.5	WDG ALONE
										T(NCI)	GRD			0		49	45.5	PAR. COMB. WITH (NC)
NCW	1/2AK30		146		202			(KR)O		IL(NCW)	GRD			0		23.5	22	MTD WITH (CWL)
NCWC	1/2AK30		146		202			(KR)O		IL(NCWC)	GRD			0		23.5	22	MTD WITH (LOK)
ND	U57	S	5		112/112	H	29							0		20	19	WDG ALONE
										T(ND)	GRD			0		45	42.5	PAR. COMB. WITH (NDI)
NDI	U81	S	5		113/113	H	29							0		22	20.5	WDG ALONE
										T(NDI)	GRD			0		49	45.5	PAR. COMB. WITH (ND)
NGT	U65		32		113/113	H	29			T(NGT)	GRD			0		20.5	19.5	
NOL	1/2AK30		109		202					IL(NOL)	GRD			0		23.5	22	MTD WITH (LOL)

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
NRD	1/2AK22		122		216			(KR)O		IU(NRD)	GRD			0		27	26	MTD WITH (RCD)
NRST	AJ15		127		249			IM(NRST)	L(NRST)		BAT.			0		45	40.5	
NS	U607		M		148/130	H	47			T(NS)	GRD			0		20.5	19.5	
NSA	3218		122		1								P	0		46	15.4	SEE BSP
								(KR)O					S	0		46	15.4	SEE BSP
NST	2768	ZYM	M		1									0		9	3	SEE BSP
														NO		9	2.3	
														R		9	.2	
NST	303F	ZYN	M		2								P	0		10.5	3.5	SEE BSP
													P	R			.4	
													S	0		3.6	1.22	
													S	R			.14	
													P/S	0		2.7	.9	
													P/S	R			.1	
NSTI	AJ503	ZYN	M		249					U(NSTI)	GRD			0		95	90	
NTA	1/2 AK4		167		202					IL(NTA)	GRD			0		12.5	11.3	MTD WITH (PCAM)
NTB	U1327		14		142/130	H	47	(KR)O		TF(NTB)	GRD		P	0		24	22.5	
								(KR)O		TR(NTB)	GRD		S	0		18.5		
NTC	U503		14		139/118	H	59							0		27.5	26	WDG ALONE
										T(NTC)	GRD			0		61.4	52	PAR. COMB. WITH (NTCI)
NTCI	U611		14		139/139	H	59							0		30	28.5	WDG ALONE
										T(NTCI)	GRD			0		67	63.5	PAR. COMB. WITH (NTC)
NTC2	U1375	EY	49		108/108		47			T(NTC2)	GRD			0		17.5	16.5	
NTC2	1/2AK26	EZ	49		10					IL(NTC2)	GRD			0		14.9	14.2	MTD WITH (PRI)
NTC3	AJ12		86		220					U(NTC3)	GRD			0		43	40.5	
NTCW	1/2AK6		146		2			(KR3)O		IL(NTCW)	GRD			0		29	27.5	MTD WITH (NTVB)
NTH	U188		14		161/161	H	53			T(NTH)	GRD			0		18.5	17.5	
NTHI	1/2AK37	EZ	49		201					IU(NTHI)	GRD			0		14.2	13.5	MTD WITH (QPR)
NTHI	U460	EY	49		108/108	H	47			T(NTHI)	GRD			0		11.2	10.6	
NTH2	AF152		86		34					"(NTH2)	GRD			0		13.7	13	
NTR	U1375		1		108/108	H	47			T(NTR)	GRD			0		17.5	16.5	
NTRE	AF132		109		61					U(NTRE)	GRD			0		34.5	32.5	
NTS	1/2AK30		120		202					IL(NTS)	GRD			0		23.5	22	MTD WITH (CLK)
NTT	U90	B ZR	16		145/123	H	47	(KR)O		TF(NTT)	GRD		P	0		18	17	
								(KR)O		TR(NTT)	GRD		S	0		14.5		
NTVB	1/2AK6		146		2			(KR3)O		IU(NTVB)	GRD			0		29	27.5	MTD WITH (NTCW)
OBS	AF32		120		208			2M(OBS)	L(OBS)		BAT.			0		33.5	30.5	
OD	1/2AK4	IT	41		202					IL(OD)	GRD			0		11.9	11.3	MTD WITH (AD)
OD	U189	TN	41		148/148	H	47			T(OD)	GRD			0		10.1	9.6	
ODD	U1301		51		123/123	H	29			T(ODD)	GRD			0		14.1	13.4	
OF	U1309		H		134/134	H	35	(KRI)O		TF(OF)	GRD		P	0		55	52	CONN -48 BAT. DIRECT
								(KRI)O		TF(OF)	GRD		P	NO		30	32	TO BF(OF)
										TF(OF)	GRD	2	P/S	0		13	12.3	
										TR(OF)	GRD		S	0		17	16	
OFO,1	U1334		51		111/111	H	29			T REL	GRD			0		14.3	13.6	
										TST								
OFF	U65		20		113/113	H	29			T(OFF)	GRD			0		20.5	19.5	
OFK	U580		20		132/132	H	47			T(OFK)	GRD			0		17.5	16.5	
OFR	AF50	RW	86		18					U(OFR)	GRD			0		23.5	22	
														NO		12.5	13.2	
OGT	U65		3		113/113	H	29	(KR)O		T(OGT)	GRD			0		20.5	19.5	

TEST NOTES:
1. WDG ALONE (MKT3 RELAY NOT PROVIDED).
2. CONNECT BF(OF) TO TR(OF).

DRAWING ISSUE

67D	LP
70A	EM
71D	AL
730	
74A	
76D	
78D	
800	
83A	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F8

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-F8

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
OPR	U67	EY	49	145/108	H	47	(KR)O		T(OPR)	GRD			O		18	17	
OPR	1/2AK37	EZ	49	201			(KR)O		IL(OPR)	GRD			O		23.5	22	MOUNTED WITH (NTH1)
OR	U982		2	207/161	H	53	(KR)O		T(OR)	GRD			O		25.5	24	
ORIG	U65		2	113/113	H	29	(KR)O		T(ORIG)	GRD			O		20.5	19.5	
ORT	U144		31	113/113	H	29			T(ORT)	GRD			O		22	20.5	
OSC	U1334	N	17	111/111	H	29			T(OSC)	GRD			O		14.3	13.6	
OSG 0-4	U421		18	110/110	H	35		T REL TST		GRD			O		13	12.3	
OSG-0-11	U1387		36	160/160	H	47		T REL TST		GRD			O		24.5	23	
OSK	U234		8	160/108	H	47			T(OSK)	GRD			O		19	18	
OSK	U1018		35	137/137	H	41			T(OSK)	GRD			O		20.5	19.5	
OTL1, OTL2	U144		6	113/113	H	29		T REL TST					O		22	20.5	
OTL3, OTL4	U144		49	113/113	H	29		T REL TST		GRD			O		22	20.5	
OTL5	U144	LQ	4	113/113	H	29			T(OTL5)	GRD			O		22	20.5	
OTL6	AF132	PY	49	61					U(OTL6)	GRD			O		34.5	32.5	
OTL7	AF124		86	8					U(OTL7)	GRD			O		30.5	29	
OTL8, OTL9	AF132		102	61				U REL TST		GRD			O		34.5	32.5	
OTL10	AF132	ZYF	106	61					U(OTL10)	GRD			O		34.5	32.5	
OTL11	AF132		106	61					U(OTL11)	GRD			O		34.5	32.5	
OV	1/2AK4		55	202					1L(OV)	GRD			O		11.9	11.3	MOUNTED WITH (ATC)
P	U802		R	111/101	H	29		3B(P)	6T(P)	M		P/S	O		10.7	10.1	
								3B(P)	6T(P)	M		P/S	R		3	3.2	
P1	U158		R	132/111	H	47			T(P1)	GRD			O		7.9		
P3A, P4A, P5A	U611	LS	9	139/139	H	59		T REL TST		GRD			O		30	28.5	
PA, PAR	U580		125	132/132	H	47		T REL TST		GRD			O		17.5	16.5	
PBX	U165		13	132/101	H	47	(KR)O		T(PBX)	GRD			O		19	18	
PBX1	U580	ZL	15	132/132	H	47			T(PBX1)	GRD			O		17.5	16.5	
PC	U188		H	161/161	H	53			T(PC)	GRD			O		18.5	17.5	
PC1, PC2	U64		F	113/113	H	29		T REL TST		GRD			O		20.5	19.5	
PC3	U1391		F	123/123	H	29			T(PC3)	GRD			O		14.3	13.6	
PCAM	1/2AK4	ZKM	167	202			8(PCAM)		1U(PCAM)	GRD			O		12.5	11.3	MOUNTED WITH (NTA)
PCD, PCD1, PCR	U188		H	161/161	H	53		T REL TST		GRD			O		18.5	17.5	
PCS	U64		H	113/113	H	29			T(PCS)	GRD			O		20.5	19.5	
PCSI2	AJ12		168	220					U(REL TST)	GRD			O		43	40.5	
PCSS	AJ5		168	220					U(PCSS)	GRD			O		13.3	12.6	
PD	U256	IQ	40	160/108	H	47	(KR)O		T(PD)	GRD			O		20	19	
PD	1/2AK10	IR	40	7					1L(PD)	GRD			O		16.5	15.5	MOUNTED WITH (PO)
PDK	1/2AK22	PQ	55	216			(KR)O		1U(PDK)	GRD			O		27.5	26	MOUNTED WITH (FDLP)

DRAWING ISSUE: 53D, 54B, 56D, 57A, 58D, 60D, 61A, 63D, 67D, 71D, 75B, 80D, 83A

MASTER TEST CONTROL CIRCUIT — SD-25800-01-F9

BELL TELEPHONE LABORATORIES INCORPORATED

PRINTED IN U.S.A.

SD-25800-01-F9

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
POR	U1145		R	144/137	H	35			T(PDR)	GRD			O		23	21.5	
PE	AJ72		59	64			(PE1)O		1U(PE)	GRD		P	O		34	32	
							(PE1)O		2U(PE)	GRD		S	O		35.5		CONT CIR BAT. TO 2L (PE)
PER	AJ68		59	277					U(PER)	GRD			O		28.5	27	
PGA	AF83		154	8			PGA (NO) 11B(MTCP)		U(PGA)	GRD	3		O		8.5	7.8	
PGB	AJ15		154	249					U(PGB)	GRD			O		42.5	40.5	
PLB	AF57		99	210			(KR)O		U(PLB)	GRD			O		27	25.5	
PLL	AF112		90	268					U(PLL)	GRD			O		35.5	33.5	
PLLP	AJ12		173	220					U(PLLP)	GRD			O		43	40.5	
PLLPI, 2	AJ12		173	220					U(REL TST)	GRD			O		43	40.5	
PLLP3	AF24		173	8					U(PLLP3)	GRD			O		30.5	29	
PLST	U1238		40	110/101	H	35			T(PLST)	GRD			O		14	13.3	
PLTO	1/2 AK8	GY	56	204			(KR)O		1L(PLTO)	GRD			O		16.8	16	MOUNTED WITH (PRDY)
PMST	AJ15		158	249					U(PMST)	GRD					43	40.5	
PO	U158	IQ	40	132/111	H	47	(KR)O		T(PO)	GRD			O		7.9	7.5	
PO	1/2 AK10	IR	40	7					1U(PO)	GRD			O		7.8	7.4	MOUNTED WITH (PD)
POSC	U238		40	117/145	H	47			T(POSC)	GRD			O		19.5	18.5	
POTS	1/2 AK30		101	202			(KR)O		1L(POTS)	GRD			O		23.5	22	MOUNTED WITH (XCSA)
PR	U90		27	145/123	H	47			TF(PR)	GRD		P	O		18	17	
									TR(PR)	GRD		S	O		14.5		
PR	1/2 AK22		154	216			11B(REP)		1U(PR)	GRD			O		27.0	26.0	MOUNTED WITH (LIP)
PR1	1/2 AK26	ZMQ	49	10			(KR)O		1U(PR1)	GRD			O		14.5	13.8	MOUNTED WITH (NTC2)
PR1	U67	EY	49	145/108	H	47	(KR)O		T(PR1)	GRD			O		18	17	
PRD	1/2 AK30	ZUU	120	202			(PRDK)NO		1L(PRD)	GRD			O		23.5	22	MOUNTED WITH (PRU)
PRDK	1/2 AK30	ZUU	120	202			(KR)O		1L(PRDK)	GRD			O		23.5	22	MOUNTED WITH (PRUK)
PRDY	AF113	GX	56	273				L(PRDY)		BAT.			O		8.7	8.2	
								L(PRDY)		BAT.			NO		4.7	5	
PRDY	1/2 AK8	GY	56	204				2U(PRDY)		BAT.	2		O		9.2	8.7	MOUNTED WITH (PLTO)
PRE	1/2 AK6		98	2			(KR)O		1L(PRE)	GRD			O		29	27.5	MOUNTED WITH (PRQ)
PRL	U300		F	117/140	H	47	(KR1)O		TR(PRL)	GRD		P	O		19	18	OPR(RLK) KEY
							(KR1)O		TR(PRL)	GRD		S	O		14.7		
PRQ	1/2 AK6		98	2			(KR)O		1U(PRQ)	GRD			O		29	27.5	MOUNTED WITH (PRE)
PRT	AF100		59	252					U(PRT)	GRD			O		41.5	39.5	
PRU	1/2AK30	ZUU	120	202			(PRUK)NO		1U(PRU)	GRD			O		23.5	22	MOUNTED WITH (PRD)
PRUK	1/2AK30	ZUU	120	202			(KR)O		1U(PRUK)	GRD			O		23.5	22	MOUNTED WITH (PRDK)
PSA	1/2AK30		158	202					1L(PSA)	GRD			O		23.5	22	MOUNTED WITH SPARE
PSG	1/2AK30		158	202			2B(KR3)		1U(PSG)	GRD			O		23.5	22	MOUNTED WITH (ROH)
PST	U1362		F	145/123	H	47		B(PST)		BAT.			O		32.5	30.5	
PT	U601		F	117/140	H	47	(KR)O		T(P1)	GRD			O		19	18	
PT1	U1392		F	109/145	H	47		B(PT1)		BAT.			O		29.5	28	
PTO	239FC OR 280A	YA YB	125	A				(PTO)JK-T (PTO)JK-T (PTO)JK-S	(PTO)JK-R (PTO)JK-R (PTO)JK-T	B/G B/G B/G	1 1 1	P P S	O NO O	-65 -65	3 OC 0.5	1.5 1.1	
PTR	239FC OR 280A	YA YB	125	A				(PTR)JK-R (PTR)JK-T (PTR)JK-S	(PTR)JK-T (PTR)JK-R (PTR)JK-T	B/G B/G B/G	1 1 1	P P S	O NO O	-65 -65	3 OC 0.5	1.5 1.1	
PTR1	U426		F	148/108	H	47	(KR1)O		T(PTR1)	GRD			O		19	18	
PTS	AJ5		167	220					U(PTS)	GRD			O		13.3	12.6	
PTS1-4	AF24		167	8					U(REL TST)	GRD			O		30.5	29	
PU	U480		15	132/111	H	47			T(PU)	GRD			O		13.9	13.2	
PU1	U662	DS	15	137/128	H	41			T(PU1)	GRD			O		17.5	16.5	
PU1	U357	DT	15	152/152	H	47			T(PU1)	GRD			O		17	16	

TEST NOTES:

1. CHECK THAT THE (PTO) AND (PTR) RELAYS GIVE A SPEED OF 14.5 ± 1 P.P.S. AND A PERCENTAGE BREAK OF THE FRONT CONTACT OF (PTO), OF 70 ± 4% ON A SELF INTERRUPTING BASIS.
   SELF INTERRUPTION IS INDUCED BY:
   A. CONNECT GRD. TO 7T (RC1)
   B. STRAP 2T (PAR) TO 5B (RC1).
      CONNECT METER TO 2B (PAR).
2. ARMATURE BACK TENSION MINIMUM 20 GRAMS READJUST, 15 GRAMS TEST.
3. BLOCK PGB OPERATED, INSULATE 12 PGA, AND INSULATE 11B OF MTCP.

DRAWING ISSUE: 53D, 54B, 56D, 57A, 58D, 60D, 61A, 63D, 67D, 71D, 75B, 80D, 83A

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-F9

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

PRINTED IN U.S.A.

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
RA	U254	ZTJ	9	108/108	H	47			T(RA)	GRD			0		17.5	16.5	
RA	U611	ZPT	9	139/139	H	55			T(RA)	GRD			0		30	28.5	
RA1-5	U497	LG	9	132/106	H	47			T REL	GRD			0		24	22.5	
									T TST								
RA1-5'	U420	LG	9	108/132	H	47		B REL	T REL	B/G			0		17	16	
								B TST	T TST	B/G			NC		9.8	10.4	
RAC	1/2AK30		158	202					IL(RAC)	GRD			0		23.5	22	MTD WITH (TIP)
RAP1-5	U1059	LS	9	167/163	H	65			T REL	GRD			0		34.5	32.5	
									T TST	GRD			NO		12.4	13.1	
RAT1	1/2AK30		99	202			(KR1)O		IU(RAT1)	GRD			0		23.5	22	MTD WITH (RAT8)
RAT2	1/2AK30		99	202			(KR1)O		IU(RAT2)	GRD			0		23.5	22	MTD WITH (RAT8)
RATA	1/2AK30		99	202			(KR1)O		IL(RATA)	GRD			0		23.5	22	MTD WITH (RAT1)
RATB	1/2AK30		99	202			(KR1)O		IL(RATB)	GRD			0		23.5	22	MTD WITH (RAT2)
RAV	U497	LS	9	132/106	H	47			T(RAV)	GRD			0		24	22.5	
RBT1	U90		1	145/123	H	47			TF(RBT1)	GRD		P	0		18	17	
									TR(RBT1)	GRD		S	0		14.5		
RC	U165		13	132/101	H	47			T(RC)	GRD			0		19	18	
RC1, RC2	U65		125	113/113	H	29			T REL	GRD	1		0		46	43.5	PAR COMB OF (RC1) & (RC2)
									T TST								
RCD	1/2AK22		122	216			(KR)O		IL(RCD)	GRD			0		27	26	MTD WITH (NRD)
RCK	U42		7	132/101	H	47			T(RCK)	GRD			0		14.4	13.7	
RCY	AF20	FD	9	205			(KR)O		U(RCY)	GRD			0		36	34	
RD	U89		125	141/172	H	53			T(RD)	GRD			0		26	24.5	
RDCK	1/2AK6		123	2			(KR)O		IL(RDCK)	GRD			0		29	27.5	MTD WITH (RDR)
RDR	1/2AK6		123	2			(KR)O		IU(RDR)	GRD			0		29	27.5	MTD WITH (RDCK)
RE	AJ15		55	249					U(RE)	GRD			0		43	40.5	
REC	U300		1	117/148	H	47			TF(REC)	GRD		P	0		21	20	
									TR(REC)	GRD		S	0		17	16	
RECE	AJ15		127	249					U(RECE)	GRD			0		43	40.5	
REP	1/2AK22		154	216					IU(REP)	GRD			0		27.0	26.0	MTD WITH EPR
REP	U1018	XJSN	27	137/137	H	47			T(REP)	GRD			0		20.5	19.5	
REPR	1/2AK30	ZPX	3	202			12(REPR)		IU(REPR)	GRD			0		24.5	22	MTD WITH (REPS)
REPS	1/2AK30	ZPX	3	202			11B(REPR)		IL(REPS)	GRD			0		23.5	22	MTD WITH (REPR)
REPT	1/2AK30	ZZH	3	202					IU(REPT)	GRD			0		23.5	22	MTD WITH (AICT OR AISM)
REX	AF57		109	210					U(REX)	GRD			0		27	25.5	
RI	U286		11	108/111	H	47	(KR)O		T(RI)	GRD			0		16	15	
RIA	AJ512		87	64					U(RIA)	GRD			0		90	85	
RIP	U1289		58, 65	114/118	H	50	(KR)O		T(RIP)	GRD			0		25	23.5	
RIW	AJ15		135	249			(KR3)O		U(RIW)	GRD			0		43	40.5	
RL	1/2AK30		156	202			(KR)O		IU(RL)	GRD			0		23.5	22	MTD WITH (ITR)
RLH	1/2AK30		146	202			(KR)O		IU(RLH)	GRD			0		23.5	22	MTD WITH (LVO)
ROCP	280Y		R	B				5(ROCP)	2(ROCP)	B/G	2	P	0	-45		1.1	
								5(ROCP)	2(ROCP)	B/G	2	P	NO	-45		0.8	
								5(ROCP)	2(ROCP)	B/G	2	P	0	-45	5.2	4.9	
								5(ROCP)	2(ROCP)	B/G	2	P	R	45	1.2	1.3	
								5(ROCP)	1(ROCP)	B/G	3	P/S	0		0.8		
ROH	1/2AK30		158	202			28(KR3)		IL(ROH)	GRD			0		23.5	22	MTD WITH (PSG)
ROP	U351		44	118/145	H	50	(KR)O		T(ROP)	GRD			0		20.5	19.5	
ROT	U58	WN	17	127/150	H	50			T(ROT)	GRD			0		11.3	10.5	
ROTP	1/2AK22		154	216					IU(ROTP)	GRD	4		0		27.0	26.0	MTD WITH WTRP
ROTP	U192		159	121/108	H	50	2,3T(MTCP)		T(ROTP)	GRD			0		21	20	
RPLS	U1131	ZMN	40	221/139		62			T(RPLS)	GRD	5		0		15.5	14.6	
RPLS	AJ83	ZMO	40	249					U(RPLS)	GRD			0		13.4	12.6	

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA	DIRECT CURRENT FLOW REQT TEST MA	DIRECT CURRENT FLOW REQT READJ MA	REMARKS
RS0, 1,2,3	U1235		13	111/101	H	29			TF REL	GRD		P	0		14.3	13.6	
									TR TST	GRD		S	0		11.3		
RS4,5	U1235	OH	13	111/101	H	29			TF REL	GRD		P	C		14.3	13.6	
									TR TST	GRD		S	C		11.3		
RS4,5	U244	OI	13	123/185	H	44			TF REL	GRD		P	C		18	17	
									TR TST	GRD		S	C		14		
RS6, 7,8	U1235		13	111/101	H	29			TF REL	GRD		P	C		14.3	13.6	
									TR TST	GRD		S	0		11.3		
RS9	U127		13	148/108	H	47			TF REL	GRD		P	C		22	20.5	
									TR TST	GRD		S	C		18		
RSH	U1248		13	111/101	H	29			T(RSH)	GRD			C		8.1	7.7	
RST	1/2AK6		62	2					IL(RST)	GRD			C		29	27.5	
RTA1	1/2AK30		135	202			8(RTA1)	2U(RTA1)	IU(RTA1)	B/G			0		24.5	22	MTD WITH (RTB1)
RTA2	1/2AK30		135	202			8(RTA2)	2U(RTA2)	IU(RTA2)	B/G			C		24.5	22	MTD WITH (RTB2)
RTB1	1/2AK30		135	202			5(RTB1)	2L(RTB1)	IL(RTB1)	B/G			C		24.5	22	MTD WITH (RTA1)
RTB2	1/2AK30		135	202			5(RTB2)	2L(RTB2)	IL(RTB2)	B/G			C		24.5	22	MTD WITH (RTA2)
RTBL	1/2AK30		127	202			(KR3)O		IU(RTBL)	GRD			0		23.5	22	MTD WITH (TCTR)
RTFA	1/2AK4		140	202			(RTFB)NO		IU(RTFA)	GRD			0		11.9	11.3	MTD WITH (RTFB)
RTFB	1/2AK4		140	202					IL(RTFB)	GRD			0		11.9	11.3	MTD WITH (RTFA)
RTFC	1/2AK26		140	10					IU(RTFC)	GRD			0		14.5	13.8	MTD WITH (RTFD)
RTFD	1/2AK26		140	10			(KR3)O		IL(RTFD)	GRD			0		15.0	14.2	MTD WITH (RTFC)
RUA1	1/2AK30		135	202			8(RUA1)	2U(RUA1)	IU(RUA1)	B/G			0		24.5	22	MTD WITH (RUB1)
RUA2	1/2AK30		135	202			8(RUA2)	2U(RUA2)	IU(RUA2)	B/G			0		24.5	22	MTD WITH (RUB2)
RUB1	1/2AK30		135	202			5(RUB1)	2L(RUB1)	IL(RUB1)	B/G			0		24.5	22	MTD WITH (RUA1)
RUB2	1/2AK30		135	202			5(RUB2)	2L(RUB2)	IL(RUB2)	B/G			0		24.5	22	MTD WITH (RUA2)
RUK1	AJ15		135	249					U(RUK1)	GRD			0		43	40.5	
RVI	AF57		131	210			(KR3)O		U(RVI)	GRD			C		27	25.5	
RWL	AJ15		135	249					U(RWL)	GRD			0		43	40.5	

TEST NOTES:
1. CONN DIRECT BAT. TO B(TCB).
2. WITH KR WIRING INSULATE 5T(PD).
3. APPLY WITH KQ WIRING ONLY.
4. BLOCK PGB OPERATED, BLOCK PGA NON OPERATED, AND INSULATE 11B OF MCTP.
5. WAIVE "NO MAKE REQUIREMENT" ON CONTACTS (10T-11T).

DRAWING ISSUE
71D
74A
76D
78D
79A
80D
83A

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-F10

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-F10

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
S	U407		H	123/111	H	29			T(S)	GRD			0		6.1	5.8	
SA	3218		122									P	0	46	15.4		SEE BSP
							(KR)O					S	0	46	15.4		SEE BSP
SAC	1/2AK4		77	202			(KR)O		1L(SAC)	GRD			0		11.9	11.3	MTD WITH (SSC)
SB	U286		3	108/111	H	47	(KR)O		T(SB)	GRD			0		16	15	
SCB	U419	FQ	14	132/111	H	47			T(SCB)	GRD			0		16	14.8	
SCB	U351	FR	14	118/145	H	50							0		20.5	19.5	WDG ALONE
									T(SCB)	GRD			0		75	71	PAR COMB OF (SCB) AND (SCB1)
SCB1	U1053	ZZZ	14	163/179	H	59							0		113.9	13.2	WDG ALONE
									T(SCB1)	GRD			0		28	26.5	PAR COMB OF (SCB1) AND (SCB)
SD	U419		F	132/111	H	47			T(SD)	GRD			0		16	14.8	
SDR	U65		2	113/113	H	29	(KR)O		T(SDR)	GRD			0		20.5	19.5	
SDR1	U826		B	124/124	H	59			T(SDR1)	GRD			0		20	19	
	AJ12		171	220					U(SDR1)	GRD			0		43	40.5	
SDR2	U1288		B	178/135	H	47			T(SDR2)	GRD			0		21	20	
	AJ12		171	220					U(SDR2)	GRD			0		43	40.5	
SDR3	U1324	M	11	163/163	H	59			T(SDR3)	GRD			0		23	21.5	
SDR4	U177	TK	11	139/139	H	59			T(SDR4)	GRD			0		19	18	
SDRA	U338	TZ	2	163/162	H	41			T(SDRA)	GRD			0		20.5	19.5	
SDT	U675		N	161/178	H	53	(KR)O		T(SDT)	GRD			0		35	33	
SGA, SGB	U1238	1Q	40	110/101	H	35			T REL TST	GRD			0		14	13.3	
SGA, SGB	1/2AK38	1R	40	13					1U REL 1L TST	GRD			0		11.9	11.3	MTD TOGETHER
SIG	AJ15		120	249			(KR1)O		U(SIG)	GRD			0		43	40.5	
SK1-5, SKAO	AJ15		98	249			(KR1)O		U REL TST	GRD			0		43	40.5	
SKAL	1/2AK6		98	2					1U(SKAL)	GRD			0		29	27.5	MTD WITH (SKTK)
SKBO	AJ15		98	249			(KR1)O		U(SKBO)	GRD			0		43	40.5	
SKCA	AF17		98	211					U(SKCA)	GRD			0		65.5	62	
SKCK	AF532		98	204					1U(SKCK)	GRD		P	0		21	20	
									2U(SKCK)	GRD		S	0		11.5		
SKF	AF94		98	243			(KR1)O	1U(SKF)	.	BAT.		P	0		21	20	
							(KR1)O		2U(SKF)	GRD		S	0		12.6		
SKFD	3218		98	1								P	0	46	15.4		SEE BSP
												S	0	46	15.4		SEE BSP
												P	R		3.4		SEE BSP
												S	R		3.4		SEE BSP
SKFP	AF48		98	28					U(SKFP)	GRD			0		95	90	
SKFT	AJ52		98	303				1L(SKFT)		BAT.		P	0		26.5	25.2	
									2U(SKFT)	GRD		S	0		26.5		
SKS	AJ15		98	249			(KR1)O		U(SKS)	GRD			0		43	40.5	
SKTK	1/2AK6		98	2					1L(SKTK)	GRD			0		29	27.5	MOUNTED WITH (SKAL)
SKTM	AG18		135	488			(KR3)O		U(SKTM)	GRD			0	20	8	7.6	
													H	20	1.5	1.4	
													R	20	0.7	0.9	
SL	U580		15	132/132	H	47			T(SL)	GRD			0		17.5	16.5	
SLFK	AJ15		135	249			(KR3)O		U(SLFK)	GRD			0		43	40.5	
SLK	U188		H	161/161	H	53			T(SLK)	GRD			0		18.5	17.5	
SLKT	U122		H	146/130	H	47		B(SLKT)	T(SLKT)	B/G			0		10.4	9.9	SEE TIME REQ
SNR	1/2AK30		155	202			(KR) O		1U(SNR)	GRD			0		23.5	22	MOUNTED WITH (IFL)
SR	Y250		F	193/152	H	47			T(SR)	GRD			0	40	34	32	
									T(SR)	GRD			H	40	6.1	5.8	
									T(SR)	GRD			R	40	1.2	1.6	
SRG1	U1375		31	108/108	H	47			T(SRG1)	GRD			0		17.5	16.5	
SRG2	Y311		31	190/188	H	35			T(SRG2)	GRD			0	FS	17	16	
									T(SRG2)	GRD			H	FS	1.6	1.5	
									T(SRG2)	GRD			R	FS	0.9	1.1	
SRT1	U1392		2	109/145	H	47		B(SRT1)		BAT			0		29.5	28	
SRT2	U238		2	117/145	H	47			T(SRT2)	GRD			0		19.5	18.5	
SSA, SSB	U59		8	124/124	H	59			T REL TST	GRD			0		31	29.5	
SSA, SSB	U88		35	125/124	H	62	(OSK)O		T REL TST	GRD			0		34	32	
SSAA, SSBA	U662	TH	35	137/128	H	41	(OSK)O		T REL TST	GRD			0		17.5	16.5	
SSC	1/2AK4		77	202			(KR)O		1U(SSC)	GRD			0		11.9	11.3	MTD WITH (SAC)
SSTI	U88		8	125/124	H	62			T(SSTI)	GRD			0		34	32	
ST	U624		2	101/101	H	29			T(ST)	GRD			0		6.7	6.3	
STA	AF23		62	206					U(STA)	GRD			0		73	69.5	
STK	U286		20	108/111	H	47			T(STK)	GRD			0		16	15	
STP	U580		10	132/132	H	47			T(STP)	GRD			0		17.5	16.5	
STPA	1/2AK30	ZPB	90	202			12(STPA)	2U(STPA)		BAT.			0		24.5	22	MTD WITH SPARE
SWAT	AJ15	ZSD	135	249			(KR3)O		U(SWAT)	GRD			0		43	40.5	

DRAWING NUMBER: 710 AB, 780 J, 800

ISSUE 98B

SD-25800-01-F11

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F11

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CIRCUIT REQUIREMENTS

APPARATUS					MECH REQT			CIRCUIT PREPARATION			TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
DESIG	CODE	OPT	FIG.		BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD			TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	
T	U65		20		113/113	H	29							0		20.5	19.5	WDG ALONE
										T(T)	GRD			0		46	43.5	PAR. COMB. OF (T) & (U)
TAB	U530		125		132/132	H	47			T(TAB)	GRD			0		17.5	16.5	
TAMA	U81		117		113/113	H	29			T(TAMA)	GRD			0		22	20.5	
TAN	U991	M	11		161/178	H	53			T(TAN)	GRD			0		17	16	
TB	U286		3		108/111	H	47	(KR) 0		T (TB)	GRD			0		16	15	
TBC	U207		40		123/123	H	29			T (TBC)	GRD			0		7.2	6.8	
TBI	U286		11		108/111	H	47	(KR) 0		T (TBI)	GRD			0		16	15	
TBL	U286		125		108/111	H	47			T (TBL)	GRD			0		16	15	
TBSK	U814		58		132/110	H	47			T(TBSK)	GRD			0		21	20	
TBTO-9	AJ12		107		220					U(REL TST)	GRD			0		43	40.5	
TC	U165		13		132/101	H	47	(KR) 0		T (TC)	GRD			0		19	18	
TCI	U220		1		120/108	H	47			T (TCI)	GRD			0		19	18	
TCB	U580		20		132/132	H	47		B (TCB)		BAT.			0		17.5	16.5	
TCBT	U177	UW	7		139/139	H	59			T (TCBT)	GRD			0		19	18	
TCK	U1283		125		208/324	H	53	7B (C01)	BF (TCK)	TF (TCK)	B/G		P	0		38.5	36.5	
								7B (C01)	BF (TCK)	TF (TCK)	B/G		P	NO		15.5	16.5	
								7B (C01)		TR (TCK)	GRD		S	0		37.5		
TCLC	AJ5		101		220					U (TCLC)	GRD			0		13.3	12.6	AC OPT PROVIDED
TCLC	AJ5		101		220			12M (TCLC)		U (TCLC)	GRD			0		13.3	12.6	AE OPT PROVIDED
TCT	AF24		127		8			(KR3) 0		U (TCT)	GRD			0		30.5	29	
TCTI	AJ12		127		220					U(TCTI)	GRD			0		43	40.5	
TCT2	AJ15		127		249					U(TCT2)	GRD			0		43	40.5	
TCTK	AJ69		127		278					U(TCTK)	GRD			0		32.5	30.5	
TCTN	AJ504		127		57			(KR3) 0		U(TCTN)	GRD			0		11.8	11.2	
TCTR	1/2AK30		127		202			(KR3) 0		1L(TCTR)	GRD			0		23.5	22	MTD WITH (RTBL)
TCTT	1/2AK8		127		204			(KR3) 0		1U(TCTT)	GRD	2		0		23.5	22	MTD WITH(SPARE)
TDV	AJ129		103		335				L(TDV)	U(TDV)	B/G	2		0		4.1	3.9	
TDVA	AG14		108		458					1U (TDVA)	GRD	3	P	0		31.5	30	
										1U (TDVA)	GRD	3	P	H		4.7	4.4	
										1U (TDVA)	GRD	3	P	R		3.3	3.6	
								4 (TDVA)	2L (TDVA)	2U (TDVA)	B/G	3	S	0		34	30.5	
TERK	U814		58		132/110	H	47			T(TERK)	GRD			0		21	20	
TH	U65		20		113/113	H	29							0		20.9	19.5	WDG ALONE
										T (TH)	GRD			0		46	43.5	PAR. COMB. OF (TH) & (HH)
THK	U580		20		132/132	H	47			T (THK)	GRD			0		17.5	16.5	
TI	AJ12		87		220					U (TI)	GRD			0		43	40.5	
TIP	1/2AK30		158		202					1U(TIP)	GRD			0		23.5	22	MTD WITH (RAC)

CIRCUIT REQUIREMENTS

APPARATUS					MECH REQT			CIRCUIT PREPARATION			TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT					REMARKS
DESIG	CODE	OPT	FIG.		BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD			TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	
TIR	AJ15		36		249			(KR) 0		U (TIR)	GRD			0		43	40.5	
TK	U580		20		132/132	H	47			T (TK)	GRD			0		17.5	16.5	
TKCK	AJ15		135		249			(KR3)0		U(TKCK)	GRD			0		43	40.5	
TKCT	AJ5		127		220					U(TKCT)	GRD			0		13.3	12.6	
TKS	U1329		9		145/120	H	47			T (TKS)	GRD			0		2.1	3.6	
TKT	U378	UJ	3		108/132	H	47		B (TKT)		BAT.			0		29	27.5	
TKT	U1051	UJ	3		117/143	H	47		B (TKT)		BAT.			0		32.5	30.5	
TKT1	U57	FE	3		112/112	H	29			T (TKT1)	GRD			0		20	19	
TKT1	U81	FF	3		113/113	H	29			T (TKT1)	GRD			0		22	20.5	
TKT2	U238		3		117/145	H	47			T (TKT2)	GRD			0		19.5	18.5	
TKT3	U1324	M	11		163/163	H	59							0		23	21.5	WDG ALONE
										T(TKT3)	GRD			0		85	80	PAR.COMB.WITH(TKT3A)
TKT3A	AJ15	ZPM	11		249									0		43	40.5	WDG ALONE
										U(TKT3A)	GRD			0		64	61	PAR.COMB.WITH(TKT3)
TL5B, TL5C	AF132		36		61					U(REL TST)	GRD			0		34.5	32.5	
TLES	U67		75		145/109	H	47	(KR) 0		T (TLES)	GRD			0		18	17	
TLH	280Y		19		B				11T(MKT3)	6T(MKT3)	NGB			P	0	-45		1.1
									11T(MKT3)	6T(MKT3)	NGB			P	NO	-45		.8
									11T(MKT3)	6T(MKT3)	NGB			P	0	-45	5.2	4.9
									11T(MKT3)	6T(MKT3)	NGB			P	NO	+45	2.7	2.9
									11T(MKT3)	6T(MKT3)	NGB			P	R	+45	1.2	1.3
									7T(MKT3)	6T(MKT3)	NGB		1	P/S	0		.8	
TLVF, TLVM	U236		20		109/111	H	17	(KR1) 0		T(REL TST)	GRD			0		16	15	
TM	U1325	M	13		103/103	H	47			T (TM)	GRD			0		17.5	16.5	
TMI	U177	LU	4		139/139	H	59							0		19	13	WDG ALONE
										T (TMI)	GRD			0		33	31.5	PAR. COMB. WITH (TM2)
TMCK	1/2AK30		127		202					1L (TMCK)	GRD			0		23.5	22	
TM2	AJ5		1		220									0		13.3	12.6	WDG ALONE
										U (TM2)	GRD			0		40.5	38.5	PAR. COMB. WITH (TMI)
TMK	U559	M	17		147/130	H	44			T (TMK)	GRD			0		20.5	19.5	
TMO	1/2AK30		127		202			(TNDK)NO		1U (TMO)	GRD			0		23.5	22	MTD WITH (TNDK)
TNDK	1/2AK30		127		202			(KR3) 0		1L (TNDK)	GRD			0		23.5	22	MTD WITH (TMO)
TNK	U503	MN	7		139/119	H	59	(KR) 0		T (TNK)	GRD			0		27.5	26.0	
TNM	AJ202		139		500					U (TNM)	GRD			0		43	40.5	
TNMA	U495		161		113/113	H	29							0		17.0	16.5	WDG ALONE
								4B(TNDK)		13T (TNMA)	GRD			0		36.5	35	PAR.COMB.WITH (TNMB)
TNMB	U495		161		113/113	H	29							0		17.0	16.5	WDG ALONE
								4B (TNDK)		13T (TNMB)	GRD			0		36.5	35	PAR. COMB. WITH (TNMA)

TEST NOTES:
1. STRAP 9T (MKT3) TO 11T (MKT3).
2. ARMATURE BACK TENSION MIN 20 GRAMS READJUST, 15 GRAMS TEST.
3. ARMATURE BACK TENSION MAX 30 GRAMS READJUST, 85 GRAMS TEST.

DRAWING ISSUE

67D	PBC
70A	EMC
71D	ABL
76D	C6
78D	
80D	
83A	

ISSUE 89A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-F12

BELL TELEPHONE LABORATORIES INCORPORATED

SYM ORG 6S

SD-25800-01-F12

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
TNT	AJ109		127	250			(TNTA)NO	1L(TNT)	1U(TNT)	B/G		P	0		67	63.5	
							(TNTA)NO		2U(TNT)	GRD		S	0		18.9		
TNTA	AF88		127	42					U(TNTA)	GRD			0		33.5	31.5	
TOC	1/2AK22		149	216					1U(TOC)	GRD			0		27.5	26	MTD WITH (IAOC2)
TOL	U991	M	11	161/178	H	53			T(TOL)	GRD			0		17	16	
TP	U422		125	132/101	H	47	1T(TP)	B(TP)		BAT.			0		14.4	13.7	
TRF	AJ83		156	249					U(TRF)	GRD			0		13.3	12.6	
TRF, TRF1	AJ5		55	220					U(REL TST)	GRD			0		13.6	12.6	
TRIC	1/2AK8		87	204			(10ST)0		1U(TRIC)	GRD			0		9.2	8.7	MTD WITH (L1TR)
TRL	U103		1	108/108	H	47			TF(TRL)	GRD		P	0		20	19	
									TR(TRL)	GRD		S	0		16.5		
TRL1	U1235		1	111/101	H	29			TF(TRL1)	GRD		P	0		14.3	13.3	
									TR(TRL1)	GRD		S	0		11.3	10.7	
TRSA	AJ504		127	57					U(TRSA)	GRD			0		11.8	11.2	
TRST	1/2AK30		127	202			12M(TRST)	2U(TRST)		BAT.			0		23.5	22	MTD WITH (TST)
TS	U1149	XG	1	109/148	H	47			T(TS)	GRD			0		16	15	
TS	U591	XH	1	119/113	H	35			T(TS)	GRD			0		26.5	25	
TS1	U144		25	113/113	H	29			T(TS1)	GRD			0		22	20.5	
TS2	U144		25	113/113	H	29							0		22	20.5	WDG ALONE
									T(TS2)	GRD			0		49	45.5	PAR. COMB. OF (TS2) & (TS12)
TS3	U144	ZX0	25	113/113	H	29							0		22	20.5	WDG ALONE
									T(TS3)	GRD			0		49	45.5	PAR. COMB. OF (TS3) & (TS13)
TS4	U144		25	113/113	H	29			T(TS4)	GRD			0		22	20.5	WDG ALONE
									T(TS4)	GRD			0		60	55.5	PAR. COMB. WITH (ACDA)
TS5-7	U144		25	113/113	H	29			T(REL TST)	GRD			0		22	20.5	
TS8	U144	UM	25	113/113	H	29			T(TS8)	GRD			0		22	20.5	
TS9	U144	YQ	25	113/113	H	29			T(TS9)	GRD			0		22	20.5	
TS10	U144	VJ	25	113/113	H	29			T(TS10)	GRD			0		22	20.5	
TS11	U144	CO	25	113/113	H	29			T(TS11)	GRD			0		22	20.5	
TS12	U144	BK	25	113/113	H	29							0		22	20.5	WDG ALONE
									T(TS12)	GRD			0		49	45.5	PAR. COMB. OF (TS12) & (TS2)
TS13	U144		25	113/113	H	29							0		22	20.5	WDG ALONE
									T(TS13)	GRD			0		49	45.5	PAR. COMB. OF (TS3) & (TS13)
TSCT	AF10	ZXZ	77	214			(KR)0		U(TSCT)	GRD			0		7.6	7.2	
TSE	313A		111	1			(TSEA)NO		1(TSE)	GRD			0	14	4.6		
TSEA	1/2AK30		111	202			(KL)0, (GLTA)0		1L(TSEA)	GRD			0		23.5	22	MTD WITH (GLTA)
TSK	U286		9	108/111	H	47	(KR)0		T(TSK)	GRD			0		16	15	
TSK1	U1334		40	111/111	H	29	(KR)0		T(TSK1)	GRD			0		14.3	13.6	
TSK2	U421		40	110/110	H	35		B(TSK2)		BAT.			0		13	12.3	
TSST	AJ15		122	249					U(TSST)	GRD			0		43	40.5	
TST	1/2AK30		127	202					1L(TST)	GRD			0		23.5	22	MTD WITH (TRST)

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
TTA1	U1063	TN	41	151/151	H	41			T(TTA1)	GRD			0		9.2	8.7	
TTC	AF135		127	4098			(KR3)0		U(TTC)	GRD			0		27.5	26	
													R		10.3	10.9	
TTK	AF114	FY	87	54					U(TTK)	GRD			0		24.5	23	
TTK	1/2AK22	FZ	87	216					1L(TTK)	GRD			0		27.5	26	MTD WITH (CHK)
TTL	U1301		4	123/123	H	29			T(TTL)	GRD			0		14.1	13.4	
TTL1, TTL2	U31		4	113/113	H	29			T(REL TST)	GRD			0		22	20.5	
TTL3, TTL4	U81		49	113/113	H	29			T(REL TST)	GRD			0		22	20.5	
TTL5	AF132		55	61					U(TTL5)	GRD			0		34.5	32.5	
TTL6, TTL7	AF132		56	61					U(REL TST)	GRD			0		34.5	32.5	
TTL8	AF132	MS	56	61					U(TTL8)	GRD			0		34.5	32.5	
TTL9	AF132		102	61					U(TTL9)	GRD			0		34.5	32.5	
TTL10	AF132		106	61					U(TTL10)	GRD			0		34.5	32.5	
TTL12	AF132		135	61					U(TTL12)	GRD			0		34.5	32.5	
TTL13	AF132		135	61					U(TTL13)	GRD			0		34.5	32.5	
TTR	U260	TQ	3	108/110	H	47			TF(TTR)	GRD		P	0		20	19	
									TR(TTR)	GRD		S	0		16.5	15.5	
TTRP	U582	MG	39	126/118	H	59	3T(MTCP)		T(TTRP)	GRD			0		27	25.5	
TTRP	1/2AK22		154	216					1L(TTRP)	GRD	1		0		27.0	26.0	MTD WITH (AREP)
TTS	AF8		99	200			6M(TTS)		1U(TTS)	GRD		P	0		20.5	18.5	
							6M(TTS)		1U(TTS)	GRD		P	NO		11.4	12	
							6M(TTS)		2U(TTS)	GRD		S	0		12.3		
TTV	AJ12		127	220					U(TTV)	GRD			0		43	40.5	
TV	U106		B	113/135	H	44	(KR)0		T(TV)	GRD			0		22.5	21	
TV	AJ95		171	63					U(TV)	GRD			0		13.9	13.2	
TV1	AJ12		171	220					U(TV1)	GRD			0		43	40.5	
TV2	1/2AK30		171	202					1U(TV2)	GRD			0		23.5	22	MTD WITH (TV3)
TV3	1/2AK30		171	202					1L(TV3)	GRD			0		23.5	22	MTD WITH (TV2)
TVK	1/2AK30		171	202					1U(TVK)	GRD			0		23.5	22	MTD WITH (TVK1)
TVK1	1/2AK30		171	202					1L(TVK1)	GRD			0		23.5	22	MTD WITH (TVK)

TEST NOTES:

1. BLOCK PGB OPERATED, BLOCK PGA NON OPERATED, AND INSULATE 11B OF MTCP.

DRAWING ISSUE

67D	PEC
690	EM
71D	RBL
800	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F13

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-F13

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	MECH REQT ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
TV1	U378		B	108/132	H	47		B(TV1)		BAT.			0		29	27.5	
TV2	U038		B	127/127	H	47			T(TV2)	GRD			0		13.6	12.9	
TV3	U177		B	139/139	H	59			T(TV3)	GRD			0		19	18	WDG ALONE
									T(TV3)	GRD			0		42	40	PAR COMB OF (TV3)&(TV4)
TV4	U177		B	139/139	H	59							0		19	18	WDG ALONE
									T(TV4)	GRD			0		42	40	PAR COMB OF (TV4)&(TV3)
TVA	U58		44	127/150	H	50			T(TVA)	GRD			0		11.3	10.7	
TVK	U141		29	132/132	H	47			T(TVK)	GRD			0		18.5	17.5	
TVK1	U679		29	108/108	H	47			T(TVK1)	GRD			0		18.5	17.5	
TVKL	1/2AK4		175	202			(KR)0		IU(TVKL)	GRD			0		11.9	11.3	MTD WITH SPARE
TVT	U65		125	113/113	H	29	(MFC1)0		T(TVT)	GRD			0		20.5	19.5	
TVT	AF24		127	8					U(TVT)	GRD			0		30.5	29	
TVT1	AJ12		127	220					U(TVT1)	GRD			0		43	40.5	
U	U65		20	113/113	H	29			T(U)	GRD			0		20.5	19.5	WDG ALONE
									T(U)	GRD			0		46	43.5	PAR COMB OF (U) & (T)
UAK	U422		58	132/101	H	47			T(UAK)	GRD			0		14.4	13.7	
UCK	U1284		125	230/108	H	47			TF(UCK)	GRD		P	0		36	34	
									TF(UCK)	GRD		P	H		19.5	18.5	
									TR(UCK)	GRD		S	0		35		
									TR(UCK)	GRD		S	H		19		
UK	U581		20	132/132	H	47			T(UK)	GRD			0		17.5	16.5	
ULF	AJ127		135	252			6B(ULP), (KR3)0	L(ULF)	U(ULF)	B/G			0		13.1	12.4	
ULLT	AJ12	ZRI	1	220			(KR3)0		U(ULLT)	GRD			0		43	40.5	
ULP	AJ15		135	249			12M(ULP), (KR3)0		U(ULP)	GRD			0		44	40.5	
VER1	U503		7	139/118	H	59	(KRC2)0		T(VER1)	GRD			0		27.5	26	
VER2	U57		L	112/112	H	29			T(VER2)	GRD			0		20	19	
VER2	U144		M	113/113	H	29			T(VER2)	GRD			0		22	20.5	
VER3	U136	N	5	112/109	H	29			T(VER3)	GRD	1		0		17.5	16.5	
									T(VER3)	GRD	2		0		17.5	16.5	WDG ALONE
									T(VER3)	GRD	2		0		39	37	PAR COMB OF (VER3)&(VERA)
VER4, VER5	U57	N	5	112/112	H	29			T(REL TST)	GRD			0		20	19	WDG ALONE
													0		44	42	PAR COMB OF (VER4)&(VER5)
VER6	U188		M	161/161	H	53			T(VER6)	GRD			0		18.5	17.5	
VER7	U144		M	113/113	H	29			T(VER7)	GRD			0		22	20.5	
VER8	U1326		37	178/141	H	53			T(VER8)	GRD			0		22.5	21	
VER9	U503	JG	7	139/118	H	59	(KRC2)0		T(VER9)	GRD			0		27.5	26	
VER10	U136		49	112/109	H	29			T(VER10)	GRD			0		17.5	16.5	
VERA	U611		100	139/139	H	59			T(VERA)	GRD			0		30	28.5	WDG ALONE
									T(VERA)	GRD			0		66.5	63.5	PAR COMB OF (VERA)&(VER3)
VFC-4	1/2AK6		87	2					IL(REL TST)	GRD			0		29	27.5	MTD WITH (LLO,1,2,4,7)
VFIK	1/2AK6		87	2					IU(VFIK)	GRD			0		29	27.5	MTD WITH (IDT)
VFA	U1113	ZLF	8	114/114	H	50			T(VFA)	GRD			0		22.5	21	
VFK	U422		7	132/101	H	47			T(VFK)	GRD			0		14.4	13.7	
VGO,1,2,4,7,10	1/2AK6		87	2				IU	REL TST	GRD			0		29	27.5	MTD WITH (FU7) AND (HGO,1,2,4,7)
VGA	U121C, U519		6	132/106	H	47		B(VGA)		BAT.			0		24	22.5	
VGAK	1/2AK6		87	2					IU(VGAK)	GRD			0		29	27.5	MTD WITH (VGBK)
VGBK	1/2AK6		87	2					IL(VGBK)	GRD			0		29	27.5	MTD WITH (VGAK)
VGK	U422		7	132/101	H	47			T(VGK)	GRD			0		14.4	13.7	
VGT1	AJ12	JF	6	220					U(VGT1)	GRD			0		43	40.5	
VLB	1/2AK6		135	2			(KR3)0		IU(VLB)	GRD			0		29	27.5	MTD WITH (VLR)
VLBK	1/2AK6		135	2			(KR3)0		IU(VLBK)	GRD			0		29	27.5	MTD WITH (VLRK)
VLR	1/2AK6		135	2			(KR3)0		IL(VLR)	GRD			0		29	27.5	MTD WITH (VLB)
VLRK	1/2AK6		135	2			(KR3)0		IL(VLRK)	GRD			0		29	27.5	MTD WITH (VLBK)
VTS	1/2AK30		135	202					IU(VTS)	GRD			0		23.5	22	MTD WITH (CWCM)
W	U497		16	132/106	H	47							0		24	22.5	WDG ALONE
							3B(Z)		T(W)	GRD			0		53	49.5	PAR COMB OF (W) & (Z)
WB	AJ5		135	220					U(W2)	GRD			0		13.3	12.6	
WBH	AJ83		135	249					U(WBH)	GRD			0		13.3	12.6	
WBLC	1/2AK30		135	202					IL(WBLC)	GRD			0		23.5	22	MTD WITH SPARE
WBLK	AJ15		135	249			(KR3)0		U(WBLK)	GRD			0		43	40.5	
WBNT	AJ15		135	249					U(WBNT)	GRD			0		43	40.5	
WBT	AF24		135	8					U(WBT)	GRD	3		C		30.5	29	
WBT1	AF24		135	8					U(WBT1)	GRD			0		30.5	29	
WBT2	AF24		135	8					U(WBT2)	GRD			0		30.5	29	
WBT3	AF24		135	8					U(WBT3)	GRD			0		30.5	29	
WBT4	AF24		135	8					U(WBT4)	GRD			0		30.5	29	
WBT5	AF24		135	8					U(WBT5)	GRD			C		30.5	29	
WBT6	AJ15		135	249					U(WBT6)	GRD			0		43	40.5	
WBT8	AF24		135	8					U(WBT8)	GRD			0		30.5	29	
WBTK	1/2AK30		135	202					IU(WBTK)	GRD			0		24.5	22	MTD WITH (WTLH)
WCHA	AJ15		135	249				L(WCHA)		BAT.			0		43	40.5	
WCK	AJ15		135	249			(KR3)0		U(WCK)	GRD			0		43	40.5	
WCST	AJ15		135	249			(KR)0		U(WCST)	GRD			0		43	40.5	
WDC1	AJ15		135	249					U(WDC1)	GRD			0		43	40.5	
WFA	AJ15		135	249				L(WFA)		BAT.			0		43	40.5	
WFAK	1/2AK6		135	2					IU(WFAK)	GRD			0		29	27.5	MTD WITH (WFBK)
WFB	AJ15		135	249				L(WFB)		BAT.			C		43	40.5	
WFBK	1/2AK6		135	2					IL(WFBK)	GRD			0		29	27.5	MTD WITH (WFAK)

TEST NOTES:

1. APP FIG 100 NOT PROVIDED.
2. APP FIG 100 PROVIDED.
3. BLOCK (WBT1,2,3,4 & 5) NON OPERATED.

DRAWING ISSUE: 71D 48, C3; 74A; 76D 82; 83A

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F14

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-F14

CIRCUIT REQUIREMENTS

APPARATUS DESIG	CODE	OPT	FIG.		MECH REQT BSP FIG.	CONT PRES	ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
WFLG	1/2AK30		135		202					IU(WFLG)	GRD			0		24.5	22	MTD WITH (WLXP)
WHMO	AJ15		135		249			(KR3)O		U(WHMO)	GRD			0		43	40.5	
WHMT	AJ504		135		57					U(WHMT)	GRD			0		11.8	11.2	
WHS	AF82		135		235			(KR3)O		U(WHS)	GRD			0		43	40.5	
WJH1	1/2AK30		135		202			(WJH2)NO		IU(WJH1)	GRD			0		23.5	22	MTD WITH (WJH2)
WJH2	1/2AK30		135		202					IL(WJH2)	GRD			0		23.5	22	MTD WITH (WJH1)
WL00-39	AF24		136		8				L(REL TST)	U(REL TST)	B/G			0		30.5	29	
WLB	AJ15		135		249					U(WLB)	GRD			0		43	40.5	
WLH1	1/2AK30		135		202			(WLH2)NO		IU(WLH1)	GRD			0		23.5	22	MTD WITH (WLH2)
WLH2	1/2AK30		135		202					IL(WLH2)	GRD			0		23.5	22	MTD WITH (WLH1)
WLK	AJ15		135		249					U(WLK)	GRD			0		43	40.5	
WLV	AF82		135		235					U(WLV)	GRD			0		43	40.5	
WLV1	AJ15		135		249					U(WLV1)	GRD			0		43	40.5	
WLVF	AJ15		135		249			(KR3)O		U(WLVF)	GRD			0		43	40.5	
WLVK	AJ15		135		249			(KR3)O		U(WLVK)	GRD			0		43	40.5	
WLXP	1/2AK30		135		202					IL(WLXP)	GRD			0		24.5	22	MTD WITH (WFLG)
WMB	1/2AM1		135		216				2U(WMB)		BAT.	1		0	-300		-100	
														?	-300		+27	
														NFR	-300		+32	
WMT	AF82		135		235					U(WMT)	GRD			0		43	40.5	
WMT1	AJ15		135		249					U(WMT1)	GRD			0		43	40.5	
WR00-39	AF24		139		8					U(WR00-39)	GRD			0		30.5	29	
WRS	AJ5		135		220					U(WRS)	GRD			0		13.3	12.6	
WRSK	AJ58		135		308			(KR3)O		IU(WRSK)	GRD	2	P	0			26.5	
													P	NO			21.5	
													P	0		30	28	
													S	0		19	18	
WRT	AJ15		135		249					U(WRT)	GRD			0		43	40.5	
WSD	U577	VG	9		163/150	H	59			T(WSD)	GRD			0		29.5	28	
WT	1/2AK30		135		202					IL(WT)	GRD			0		23.5	22	MTD WITH (SPARE)
WTB	AF15		118		216					U(WTB)	GRD			0		7.1	6.7	
WTH1	1/2AK30		135		202			(WTH2)NO		IU(WTH1)	GRD			0		23.5	22	MTD WITH (WTH2)
WTH2	1/2AK30		135		202					IL(WTH2)	GRD			0		23.5	22	MTD WITH (WTH1)
WTK	AJ15		135		249			(KR3)O		U(WTK)	GRD			0		43	40.5	
WTKB	AJ15		135		249					U(WTKB)	GRD			0		43	40.5	
WTL	AJ15		135		249				L(WTL)		BAT.			0		43	40.5	
WTLH1	1/2AK30		135		202					IU(WTLH1)	GRD			0		24.5	22	MTD WITH (WTLH2)
WTLH2	1/2AK30		135		202					IL(WTLH2)	GRD			0		24.5	22	MTD WITH (WTLH1)
WTRP	AJ15	ZRT	135		249			8(WTRP)		U(WTRP)	GRD			0		45	40.5	
WTRP	1/2AK22		154		216					IL(WTRP)	GRD	4		0		27.0	26.0	MTD WITH ROTP
XFT	U520		9		110/110	H	35	(KR)O		T(XFT)	GRD			0		13.6	12.9	
XHG	1/2AK6		87		2					IU(XHG)	GRD			0		29	27.5	MTD WITH (XHGA)
XHGA	1/2AK6		87		2					IL(XHGA)	GRD			0		29	27.5	MTD WITH (XHG)
XI	1/2AK6		87		2					IU(XI)	GRD			0		29	27.5	MTD WITH (XL)

CIRCUIT REQUIREMENTS

APPARATUS DESIG	CODE	OPT	FIG.		MECH REQT BSP FIG.	CONT PRES	ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
XL	1/2AK6		87		2					IL(XL)	GRD			0		29	27.5	MTD WITH (XI)
XM	U1409		89		111/101	SPL	SPL	(KR1)O		TF(XM)	GRD	3	P	0		115	105	ARM. TRVL 23
								(KR1)O		TF(XM)	GRD		P	NO		80	90	
								1T(XM)		TR(XM)	GRD		S	0		25		
XMA	U142		89		137/108	H	47			T(XMA)	GRD			0		9.4	8.9	
XPTL	1/2AK22		98		216			(KR1)O		IU(XPTL)	GRD			0		27.5	26	MTD WITH (XTG)
XSK	AJ510		98		39			(KR1)O		IU(XSK)	GRD		P	0		255	240	
								(KR1)O		IU(XSK)	GRD		P	NO		200	215	
								(KR1)O		2U(XSK)	GRD		S	0		52.5		
XSKA	AF67		98		207					U(XSKA)	GRD			0		7.2	6.8	
XTG	1/2AK22		98		216			(KR1)O		IL(XTG)	GRD			0		27.5	26	MTD WITH (XPTL)
Z	U420		16		108/132	H	47							0		17	16	WDG ALONE
														NO		9.8	10.4	
								3B(W)		T(Z)	GRD			0		37.5	35.5	PAR COMB OF (Z)
								3B(W)		T(Z)	GRD			NO		18	14	& (W)
ELECTRON TUBES																		
LD	313CC	GS	49															SEE BSP
LR	313CC		87															SEE BSP
SKF	313CC		98															SEE BSP
SLKT	313CC		M															SEE BSP

TEST NOTES:
1. ARMATURE BACK TENSION MIN 40 GRAM. READJ.; 35 GRAM TEST.
   ARMATURE BACK TENSION MAX 110 GRAM. READJ.; 115 GRAM TEST.
   SOAK CURRENT SHALL NOT FLOW FOR MORE THAN 5 SECONDS.
   OPERATE AND NONOPERATE TEST AFTER SOAK AND NO FLUX RELEASE.
   RELEASE AND NONRELEASE TEST AFTER SOAK.

2. ONLY CONTACTS IN POSITION 12 NEED MAKE ON 26.5
   PRIMARY OPERATE.

3. 1T-2T, 3T-4T AND 1B-2B MAKE-MIN. 6 MILS.

4. BLOCK PGB OPERATED, BLOCK PGA NON OPERATED, AND INSULATE 11B
   OF MTCP.

TIMING REQUIREMENTS

APPARATUS DESIG	OPT	FIG.		CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BK	TEST CLIP DATA CONN R	TEST CLIP DATA CONN W	TEST SET PREP SEND KEY	REC SW START	REC SW STOP	SEE NOTE	TIME REQ MIL-SEC MIN	TIME REQ MIL-SEC MAX	REMARKS
GLT		111			GRD	1(TSE)	9(GLT)	BK	BAT.	GRD	1,3-5	79	81	ADJUST (GLMN) POT. FOR 80 MSEC
					GRD	1(TSE)	9(GLT)	BK	BAT.	GRD	1,4,5	109	111	ADJUST (GLMX) POT. FOR 110 MSEC
LR		87		(R1A)NO, (1DST)O	U(1D)	BAT.	U(R1A)	MK	BAT.	GRD	1	5350	7980	
SKF		98		(KR1)O	GRD	U(KSK1)	2U(SKF)	MK	BAT.	GRD	1,2	116	213	
SLKT		M			GRD	TF(LI)	6T(SLKT)	MK	BAT.	GRD	1	1050	1600	

TEST NOTES:
1. USE TEST SET FOR TIMING TEST.
2. STRAP FRAME GROUND TO 7 (KSK) RELAY. THE TIME INCLUDES THE OPERATE TIMES OF THE (KSK1) AND (SKF) RELAYS.
3. OPERATE (GLMN) KEY.
4. MOMENTARILY OPERATE (RL) KEY BEFORE STARTING TIMING TEST.
5. CONNECT GROUND TO 5 (TSEA) RELAY. DISC. MOMENTARILY ON REPEAT TEST.

DRAWING ISSUE

71D	AR
74A	
76D	
78D	
79A	
80D	

ISSUE 86D

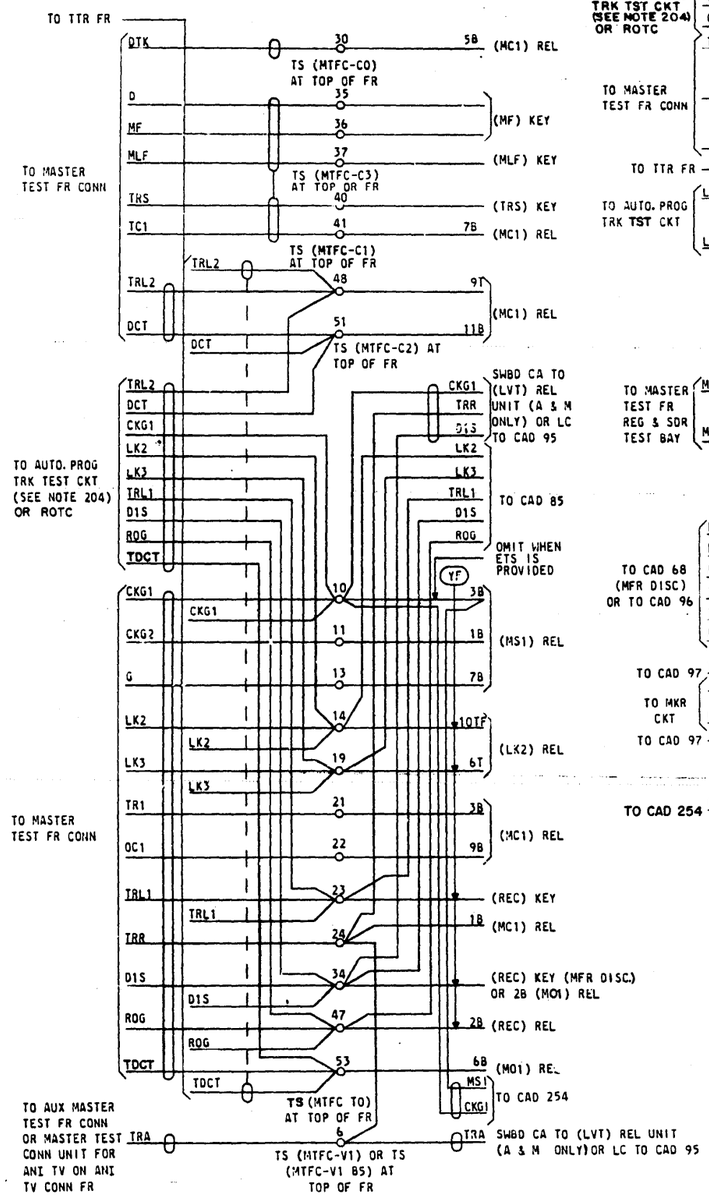
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-F15

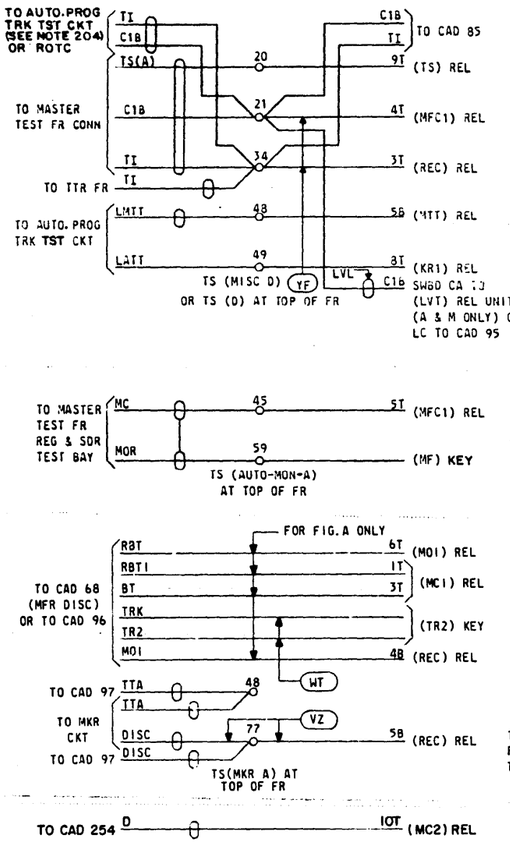
BELL TELEPHONE LABORATORIES INCORPORATED SHEET 65

SD-25800-01-F15

CAD 51 (MFR DISC.)

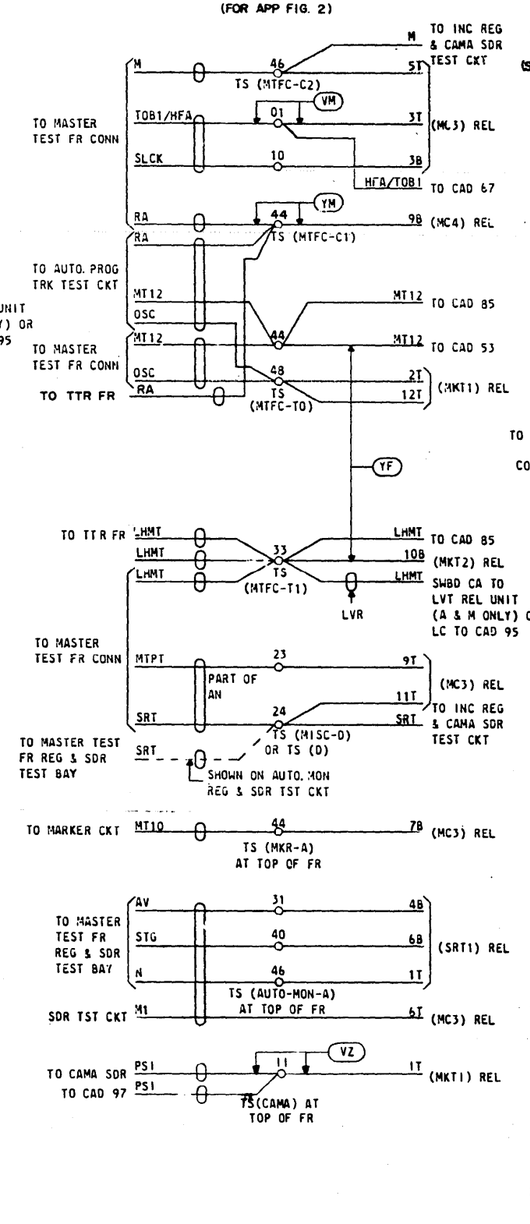
(FOR APP FIG. 1)





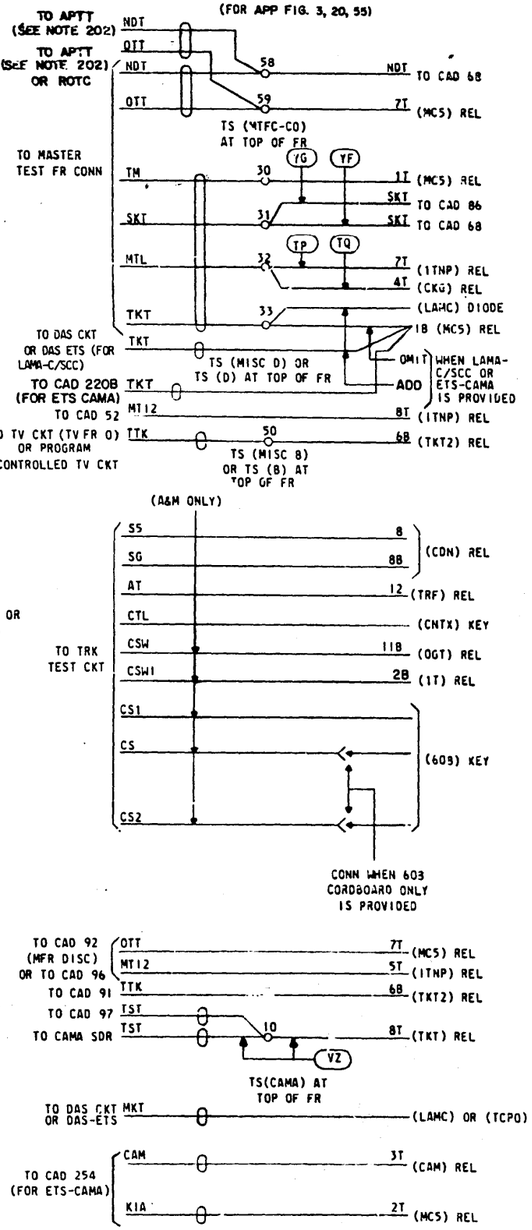
CAD 52 (MFR DISC.)

(FOR APP FIG. 2)



CAD 53 (MFR DISC.)

(FOR APP FIG. 3, 20, 55)



DRAWING ISSUE

5ID	C1
	AM
	C1
32A	AM
	BR
56D	BR
	AB
64A	JS
	AM
71D	RF

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-GI

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

CAD 54 (MFR DISC.)

(FOR APP FIG. 4,5)
SWBD CA TO LVT REL UNIT
(A&M ONLY) OR LC TO CAD 95

SHOWN ON AUTO. MON
REG & SDR TST CKT
TO AUTO. MON BAY

TO MASTER
TEST FR
CONN

TO CAD 55
(MFR DISC)
OR TO
CAD 101

(ND) REL
(KE) REL
(KF) REL

TO AUTO. PROG TRK TST
CKT (SEE NOTE 204)

TS (MTFC-82)
AT TOP OF FR

TO TTR FR

SHOWN ON AUTO. MON
REG & SDR TST CKT
TO AUTO.
MON BAY

TO MASTER
TEST FR
CONN

(KF) REL
(KG) REL
(KH) REL
(KJ) REL
(KH) REL
(KK) REL
(KJ) REL
(KK) REL
(KL) REL

TO AUTO. PROG TRK TST
CKT (SEE NOTE 204)

TS (MTFC-82)
AT TOP OF FR

TO TTR FR

CAD 55 (MFR DISC.)

(REPLACED BY CAD 101)

STRAP TO SIMILARLY
DESIGNATED TERMINALS ON TS

CROSS CONN
PER NOTE 303

(VER 3) REL
(KA) REL
(VER 3) REL
(NB) REL
(VER 3) REL
(NC) REL

CAD 54 (MFR
DISC.) OR
CAD 96

CROSS CONN
PER NOTE 301

TTL1 REL
TTL2 REL
(BB) REL
(NA1) REL
(TTL5) REL

TS (CONT B)
AT TOP OF FR

TS (CONT A)
AT TOP OF FR

STRAP TO SIMILARLY
DESIGNATED
TERMINALS ON TS

(TTL5) REL
(TTL1) REL
(TTL2) REL
(BB) REL
(VER4) REL
(TTL5) REL
(TTL1) REL
(TTL2) REL
(BB) REL
(VER 4) REL
(TTLI) REL
(TTL2) REL
(BB) REL
(NA1) REL
(TTL5) REL

TS (CONT 4)
AT TOP OF FR

DRAWING ISSUE		
51D	SAT	
52A	SAT	C3
71D	RJF	G8

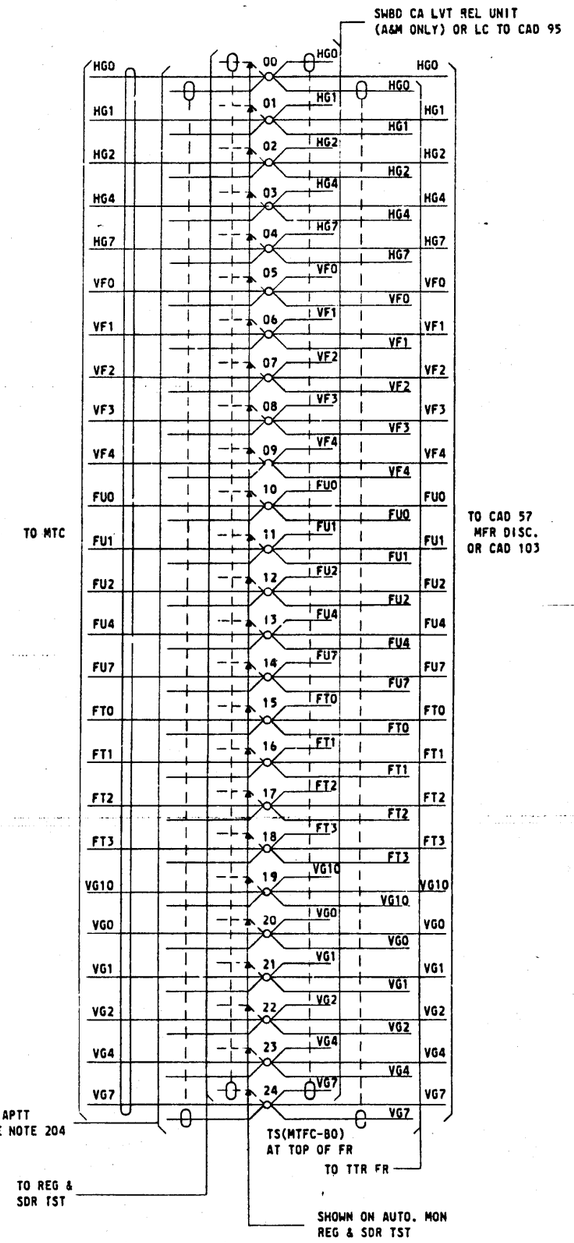
71

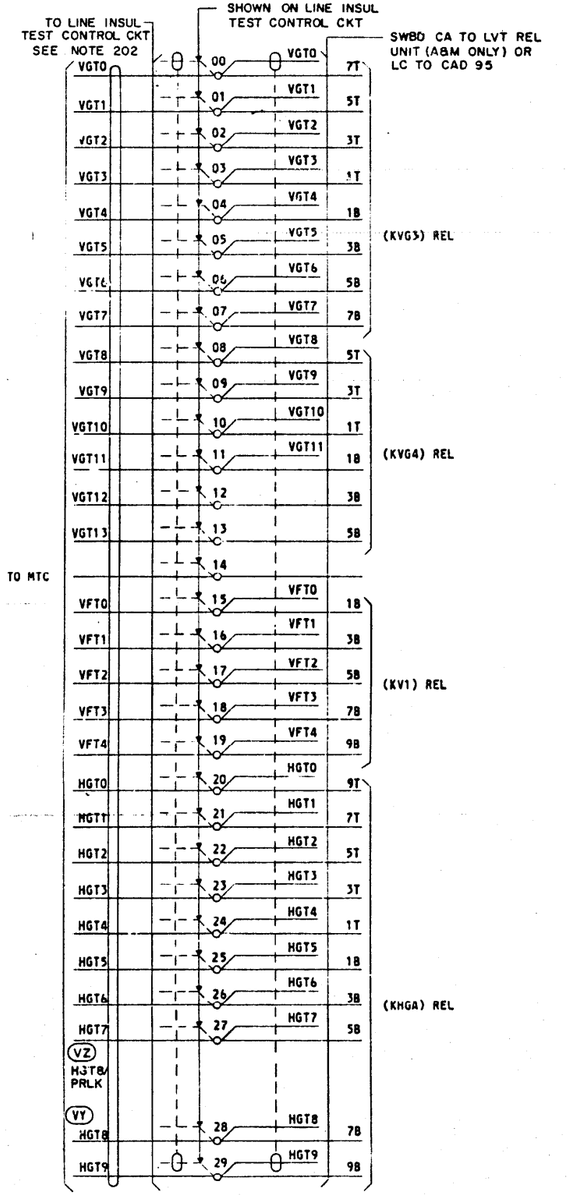
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G2

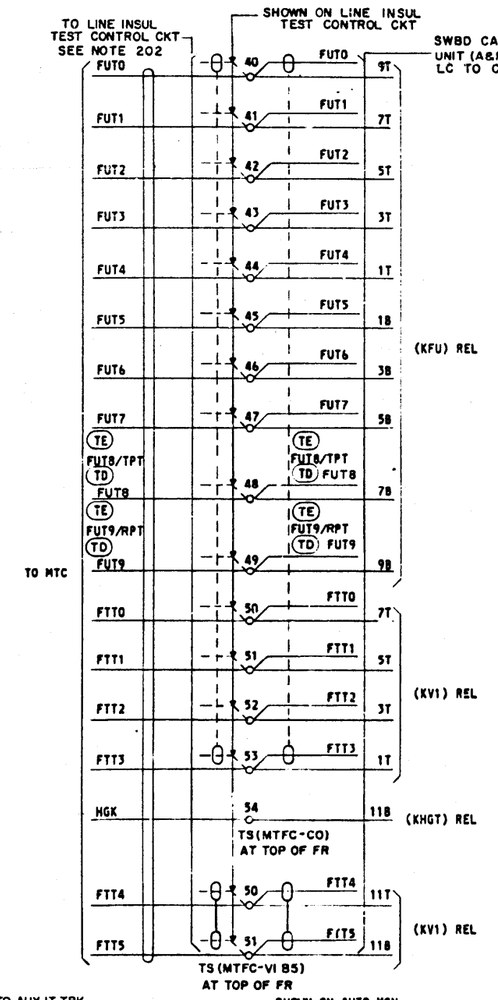
BELL TELEPHONE LABORATORIES INCORPORATED 6S

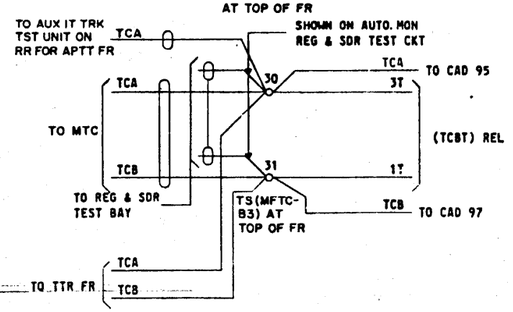
SD-25800-01-G2

PART OF CAD 56 (MFR DISC.)









DRAWING ISSUE	
51D	RJS KWP 8-78
52A	DS KWP AMP
53D	GLM CWL AMP
71D	RJF

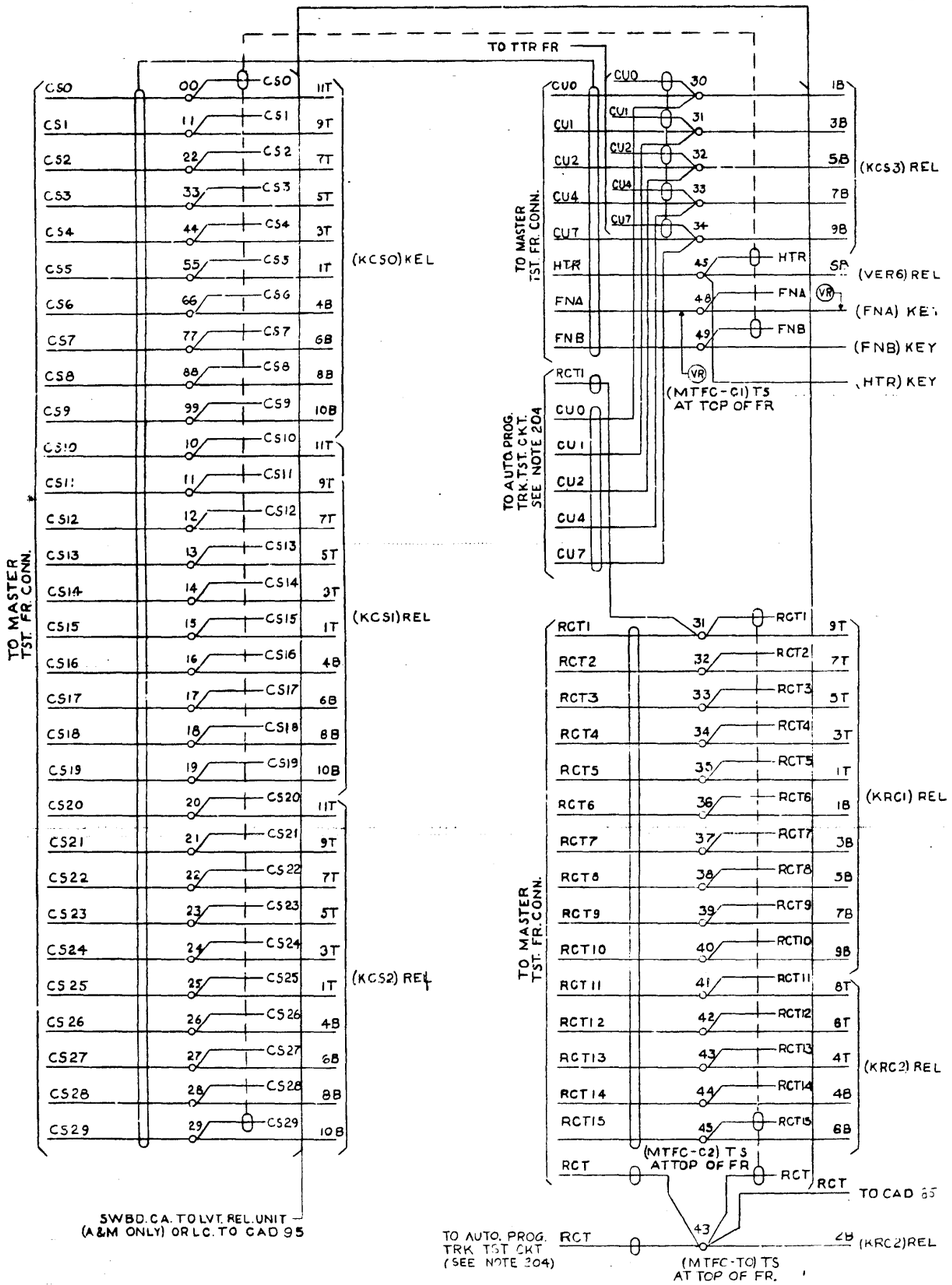
71

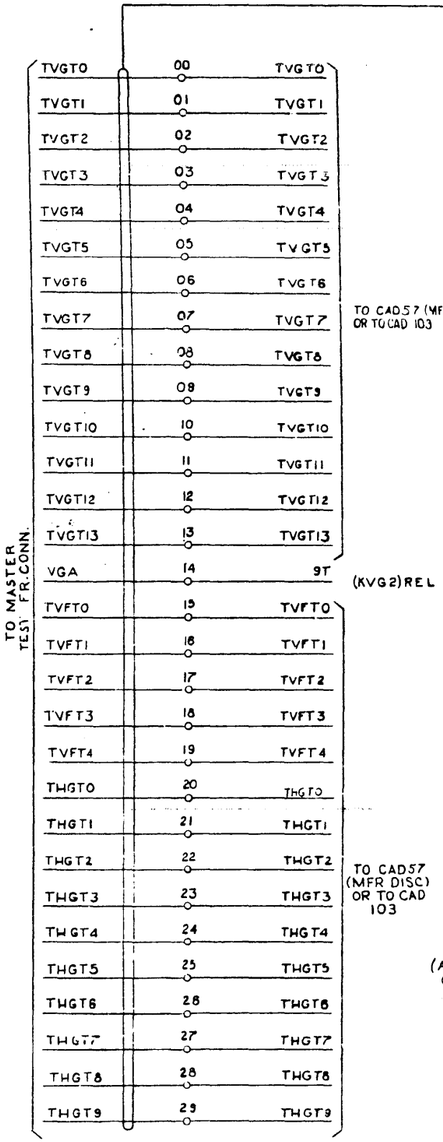
SD-25800-01-G3

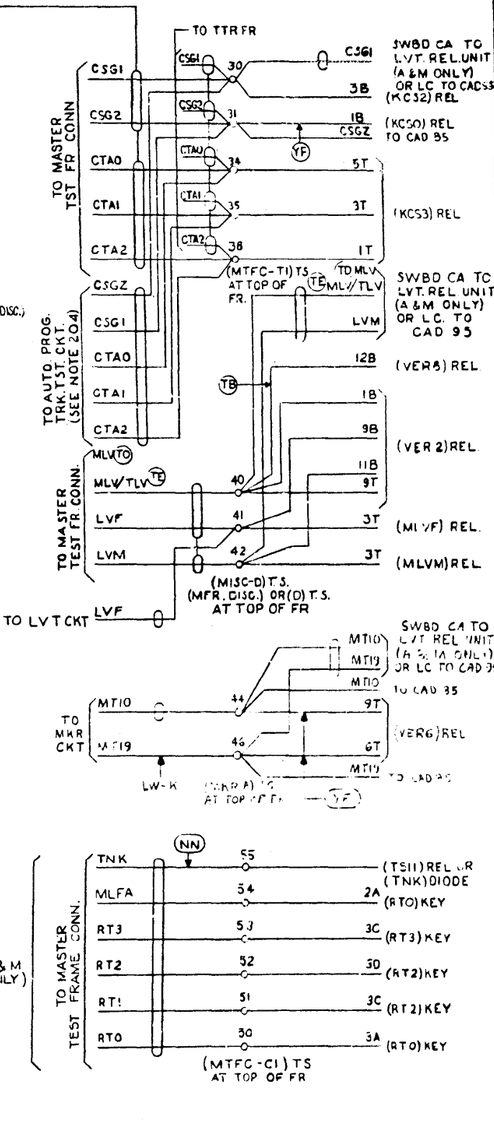
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G3

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF CAD 56 (MFR DISC)







DRAWING ISSUE

51D	
52A	
63D	
71D	

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

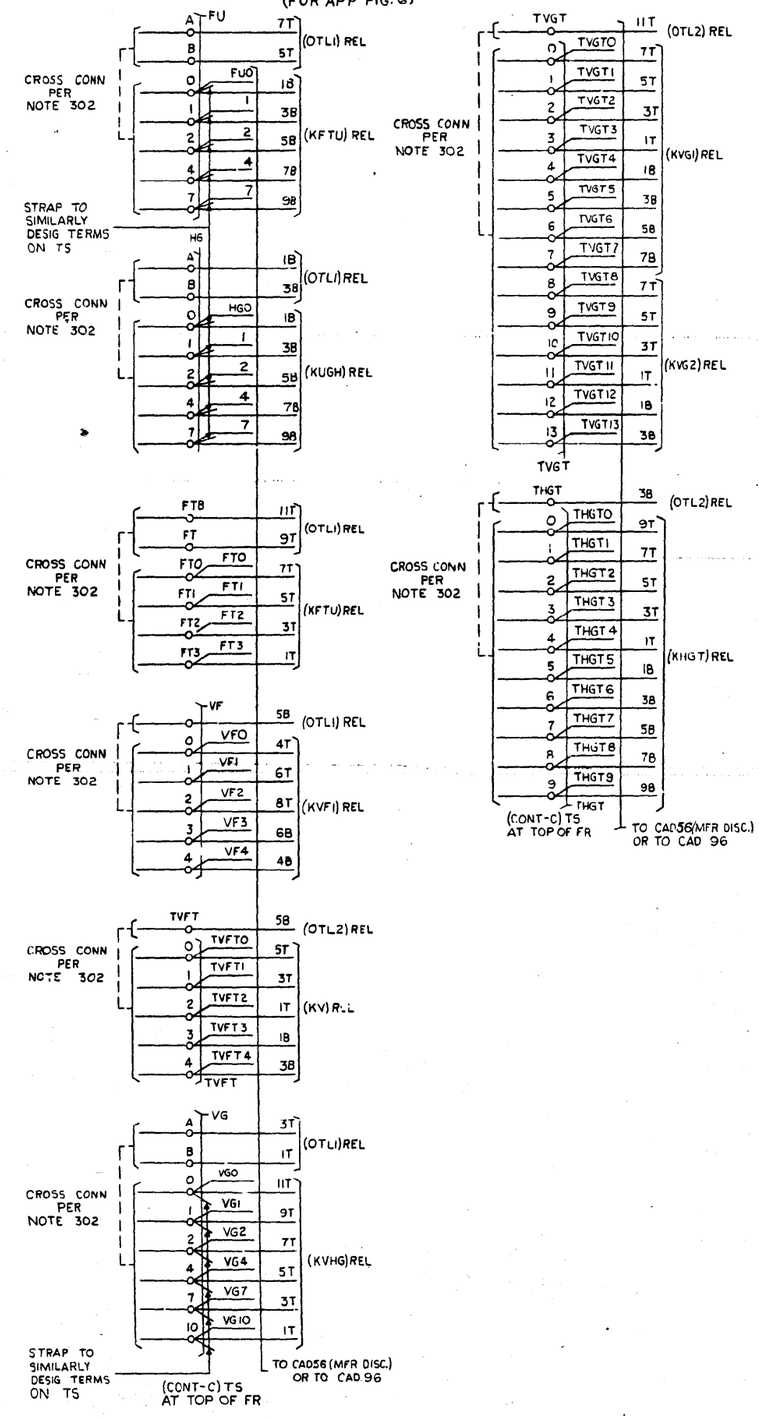
SIZE 6S

SD-25800-01-G4

SD-25800-01-G4

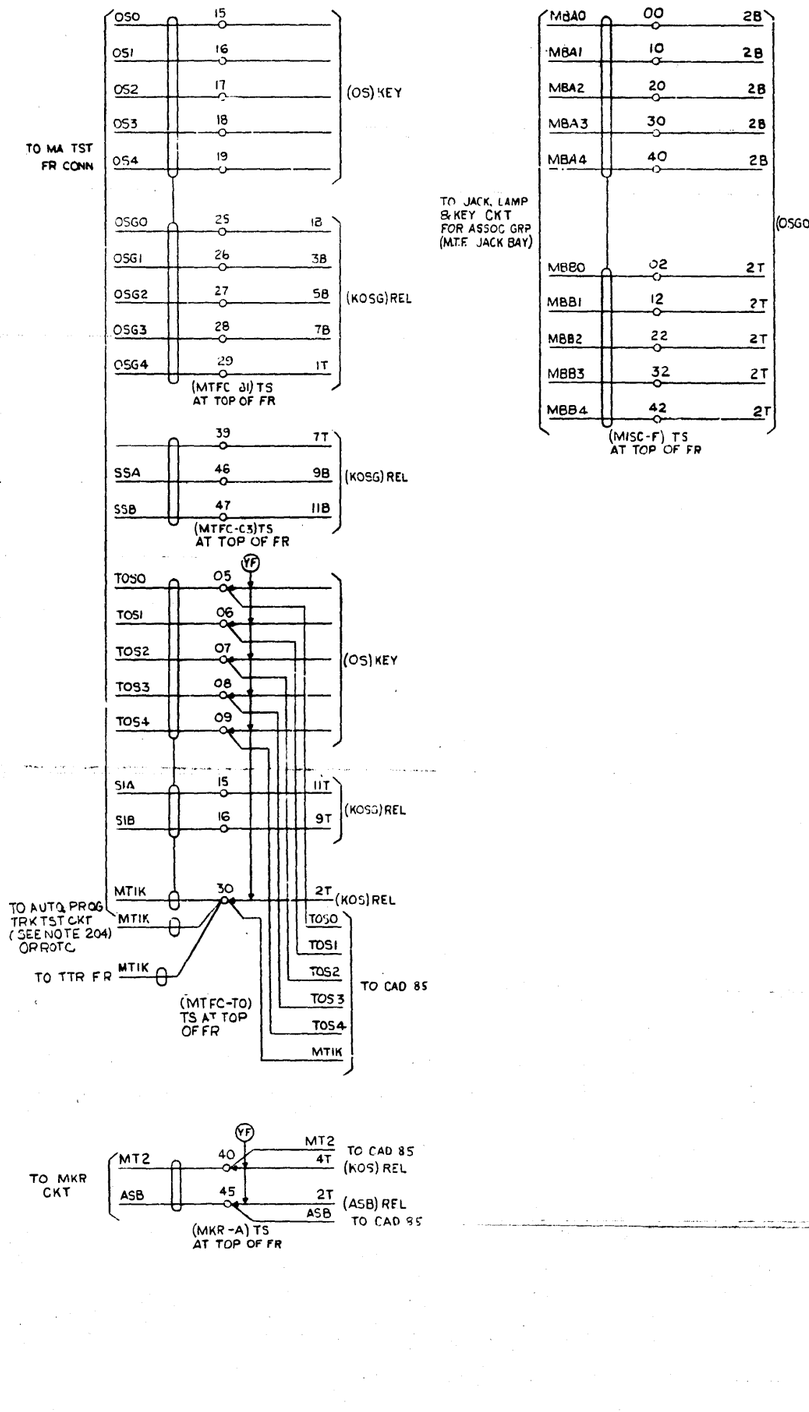
CAD 57 (MFR DISC.)

REPLACED BY CAD 103
(FOR APP FIG. 6)



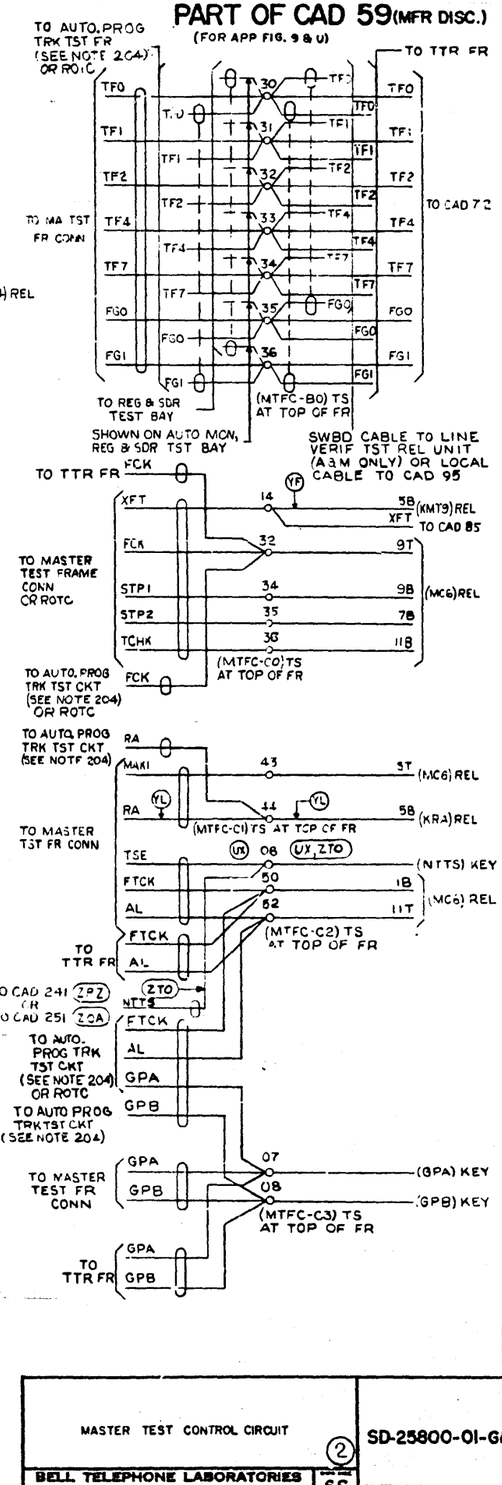
CAD 58 (MFR DISC.)

REPLACED BY FIG.88 (FOR APP FIG. 8 & 18)



PART OF CAD 59 (MFR DISC.)

(FOR APP FIG. 9 & U)



DRAWING ISSUE	
51D	NP, VAR, AJA, AHJ
52A	AJA, AHJ
56D	AJF, AHJ
71D	AJF

ISSUE 103A

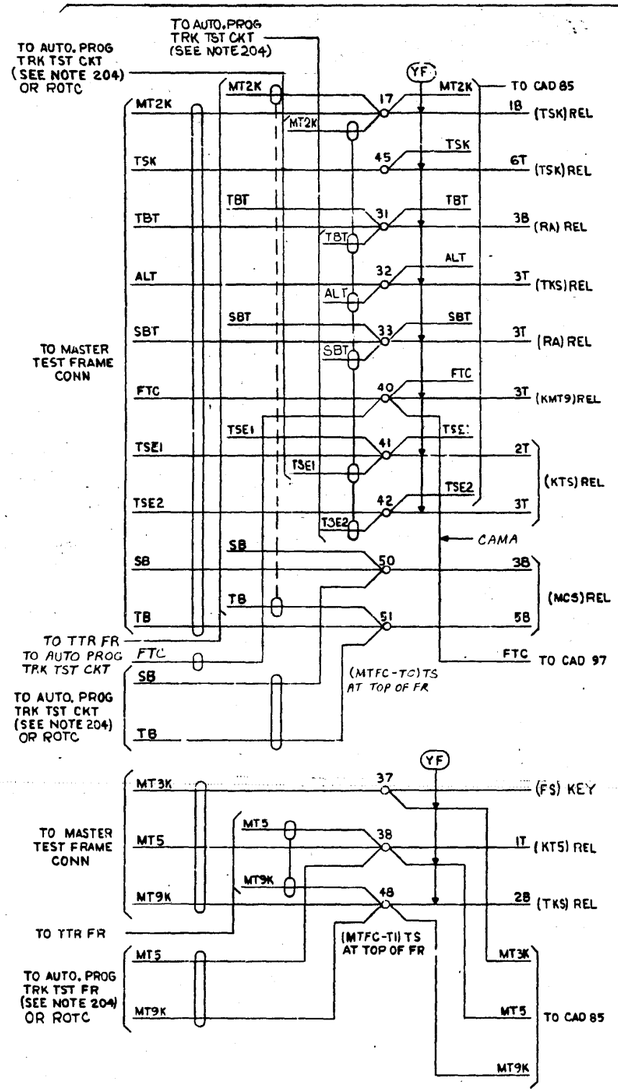
MASTER TEST CONTROL CIRCUIT (2)

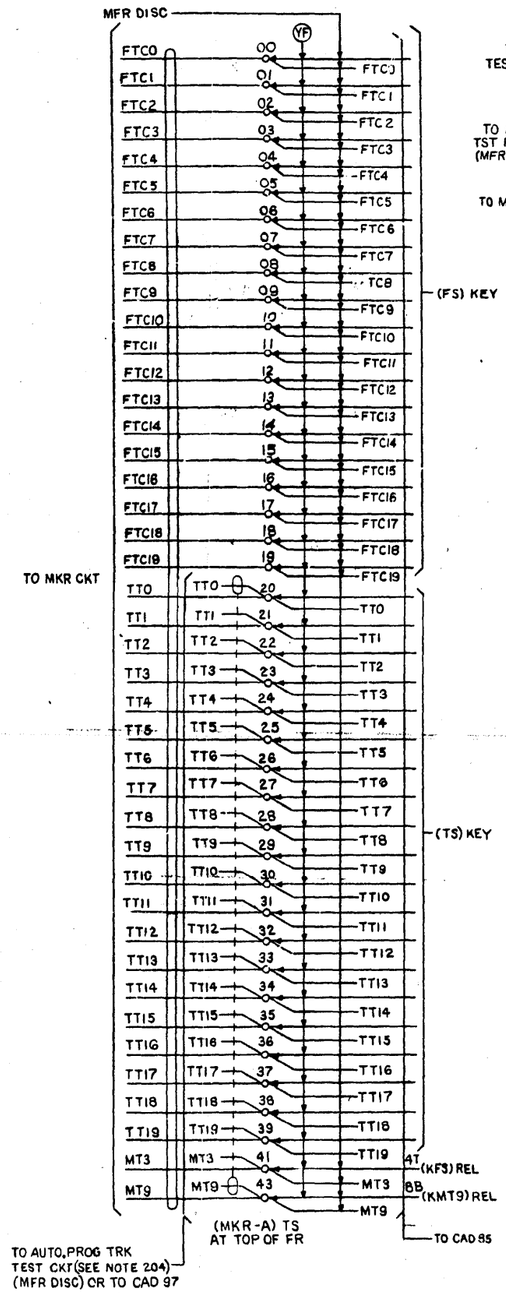
SD-25800-01-G5

BELL TELEPHONE LABORATORIES INCORPORATED 6S

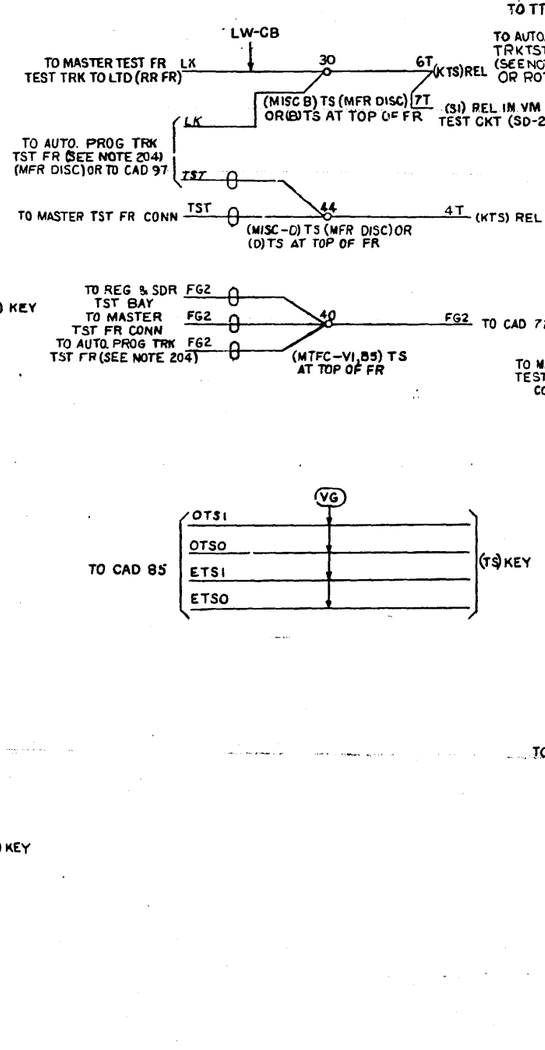
SD-25800-01-G5

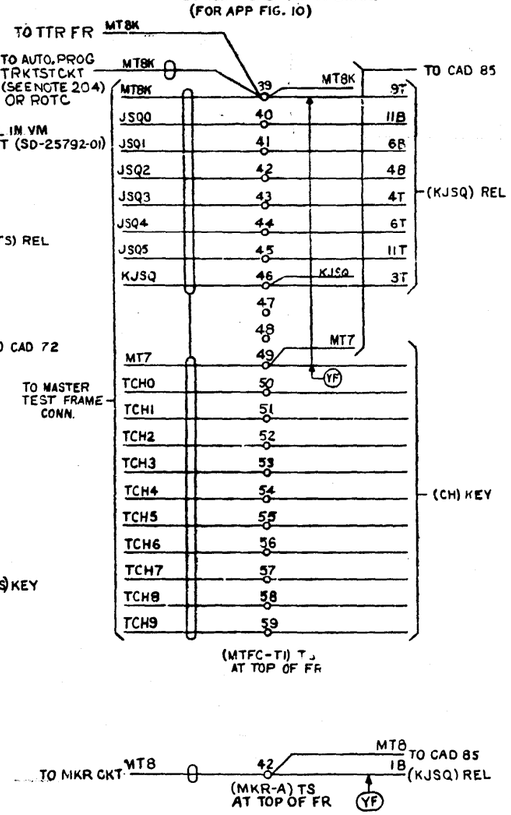
PART OF CAD 59 (MFR DISC.)





CAD 60 (MFR DISC.)
(FOR APP FIG. 10)





DRAWING ISSUE
51D RMS MWB MWP
52A RFS MWB MWP
56D DRT MWB MWP
71D 4596

ISSUE 105A

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-G6
BELL TELEPHONE LABORATORIES INCORPORATED
SIZE 6S

SD-25800-01-G6

CAD 61 (MFR DISC.)

(FOR APP FIG.11)

TO CAD 254

SPL — 37 — SPL — (KLT1) REL

1S (MFTC-80)

TR — BN — 7 — BN — 98 — ZVE

BN — RI — 8 — RI — 11B — (KLT1) REL

RI — TBI — 9 — TBI — 11T

TBI

PHG — 45 — 98

THC — 46 — 7B — (KIC) REL

TR — TOL — 55 — 9T

UT — TAN — 50 — 7T — 8T — (TAN) REL

TOL — TAN1 — 51 — 1T

TAN — TAN2 — 52 — 3T

TAN1 — TAN3 — 53 — 5T — (KIC1) REL

TAN2 — TAN4 — 54 — 7T

TO MASTER TST FR CONN

TAN3 — 2DT — 55 — 1B

TAN4

2DT

TAN — 57 — 7T (KIC) REL

INC — 58 — INC — 3T (KMT9) REL — INC TO CAD 97

TAN

INC

TS (MFTC-81) AT TOP OF FR

OA — 18 — OA — 6B

OB — 19 — OB — 2B — (KLT1) REL

OA

OB

FVD — 28 — 3B

FVD — TT — 29 — 5B — (KIC) REL

TT — TOL — 33 — 9T

TO AUX IT TRK TST UNIT ON RR FOR APTT FR

TO MASTER TST FR CONN TO TTR FR

TOL

TS — TS (MFTC-83)

TO REG SDR TEST BAY

SHOWN ON AUTO MON REG & SDR TST CKT

SWBD CABLE TO LINE VERIF TST REL UNIT (A & M ONLY) OR LOCAL CABLE TO CAD 95

OAP — 7B

OAT — 5B

OBP — 3B — (KLT1) REL

OBT — 1B

TO CAD 71

OAE — (OAT) KEY

OBE — (OBT) KEY

TO CAD 62 (MFR DISC) OR TO CAD 96 — ECN — 3B — (KTN2) REL

4 — 11T

TO CAD 254 — 1 — 11B — (KLT1) REL

3 — 9B

CAD 62 (MFR DISC.)

REPLACED BY CAD 96 (FOR APP FIG.12)

TO CAD 76 (MFR DISC) OR TO CAD 104

HT0 — 35 — HT0 — 9T

HT1 — 36 — HT1 — 7T

HT2 — 37 — HT2 — 5T

HT4 — 38 — HT4 — 3T

HT7 — 39 — HT7 — 1T

TT0 — 45 — TT0 — 1B

TT1 — 46 — TT1 — 3B — (KTN) REL

TT2 — 47 — TT2 — 5B

TT4 — 48 — TT4 — 7B

TT7 — 49 — TT7 — 9B

UT0 — 55 — UT0 — 5T

UT1 — 56 — UT1 — 3T

UT2 — 57 — UT2 — 1T — (KTN1) REL

UT4 — 58 — UT4 — 1B

UT7 — 59 — UT7 — 3B

TO MASTER TST FR CONN

TO TTR FR

TS (MFTC-83) AT TOP OF FR

TO REG & SDR TEST BAY

SHOWN ON AUTO MON REG & SDR TST CKT

TO TTR FR ECN — 04 — ECN TO CAD 97 — ECN TO CAD 61

OCN — 05 — (ONC) KEY

MB0 — 25 — 9T

MB1 — 26 — 7T

MB2 — 27 — 5T

MB4 — 28 — MB4 — 3T

MB7 — 29 — MB7 — 1T — (KMB) REL

CP0 — 30 — 1B

CP1 — 31 — 3B

CP2 — 32 — 5B

CP4 — 33 — 7B

CP4 — 34 — 9B

TO MASTER TST FR CONN

TS (MFTC-C3) AT TOP OF FR

SWBD CABLE TO LINE VERIF TST REL UNIT (A & M ONLY) OR LOCAL CABLE TO CAD 95

CAD 63 (MFR DISC.)

REPLACED BY CAD 96 (FOR APP FIG.13)

FBK — SWBD CABLE TO LINE VERIF TST REL UNIT (A & M ONLY) OR LOCAL CABLE TO CAD 95 — 4T — (FB) REL

OCK — 98

TD — LR, — TE — LR/RL — 1T — TS (MTFC-80) — (KINC) REL

RO — 11T — TS (MTFC-81)

TO REG & SDR TST BAY — SHOWN ON AUTO. MON REG & SDR TST CKT

TLH — 31 — BST — 33 — 11B — LCK — 55 — TP' — 57 — TS (MTFC-CO)

VE — 5T — 2B — ZTO — 4B — ZTN — (FB) REL

2B — (F) REL — TLH1 — TLH — TO CAD 85

VG

TO MASTER TST FR CONN — VY NN — VZ HF/ — 15

ORG2 — 16 — 9T — (KINC) REL

NH — 17 — 3T

VY HF — VZ HF/ — 18 — SWBD CABLE TO LINE VERIF TST REL UNIT (A & M ONLY) OR LOCAL CABLE TO CAD 95

ORG2 — 19 — 9B — (F) REL

RSO — 20 — 11T

RS1 — 21 — 9T

RS2 — 22 — 7T

RS3 — 23 — 5T

RS4 — 24 — 3T — (KRS) REL

RS5 — 25 — 1T

RS6 — 26 — 1B

RS7 — 27 — 3B

RS8 — 28 — 5B

RS9 — 29 — 7B

RSK — 30 — 9B — RSK

TMK — 57 — 2T — (TM) REL

TMK1 — 58 — 3T — TMK — TO CAD 85

TS (MTFC-C2) AT TOP OF FR — YF

TO TTR FR

TMK — TMK1 — TO AUX IT TRK TST UNIT ON RR FOR APTT FR

TMK — TMK1

TO MASTER TST FR CONN

WK — WL

1TB — 1SE — 11 — 7B

2MB — 2SA — 12 — 5B

3FB — 3NA — 13 — 3B

4TT — 4NE — 14 — 1B — 4NE

5MT — 5ST — 15 — 1T — (KITC) REL

6FT — 6NT — 16 — 3T — 6NT

7TP — 7RN — 17 — 5T

8MP — 8SP — 13 — 7T

9FP — 9NP — 19 — 9T — 9NP — SWBD CABLE TO LINE VERIF TST UNIT (A & M ONLY) OR LOCAL CABLE TO CAD 95

RNO — 20 — 3T

RN1 — 21 — 1T

RN2 — 22 — 1B — (KRN) REL

RN4 — 23 — 3B — RN4

RN7 — 24 — 5B — RN7

ZN — ZN

ONN — 37 — 11B — (KITC) REL

TS (MTFC-C3)

TO TTR FR — F — 00 — 3B — (KINC) REL

F — F TO CAD 97

BLC — 01 — 6B — (FB) REL

TTC — 04 — 5B — TTC

RC — 12 — 7B — RC — (F) REL

LLI — 46 — 4T — LLI — (KLT) REL

EXT — 49 — 4B — EXT — (TM) REL

TS (MTFC-10) AT TOP OF FR — YF — EXT TO CAD 35

TO MASTER TST FR CONN

TO CAD 241 — TOC — 3B — (FB) REL

DRAWING ISSUE

51D	CAY	AM0
52A	FNG	AM8
53D	AM4	AM7
71D	R.F	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G7

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

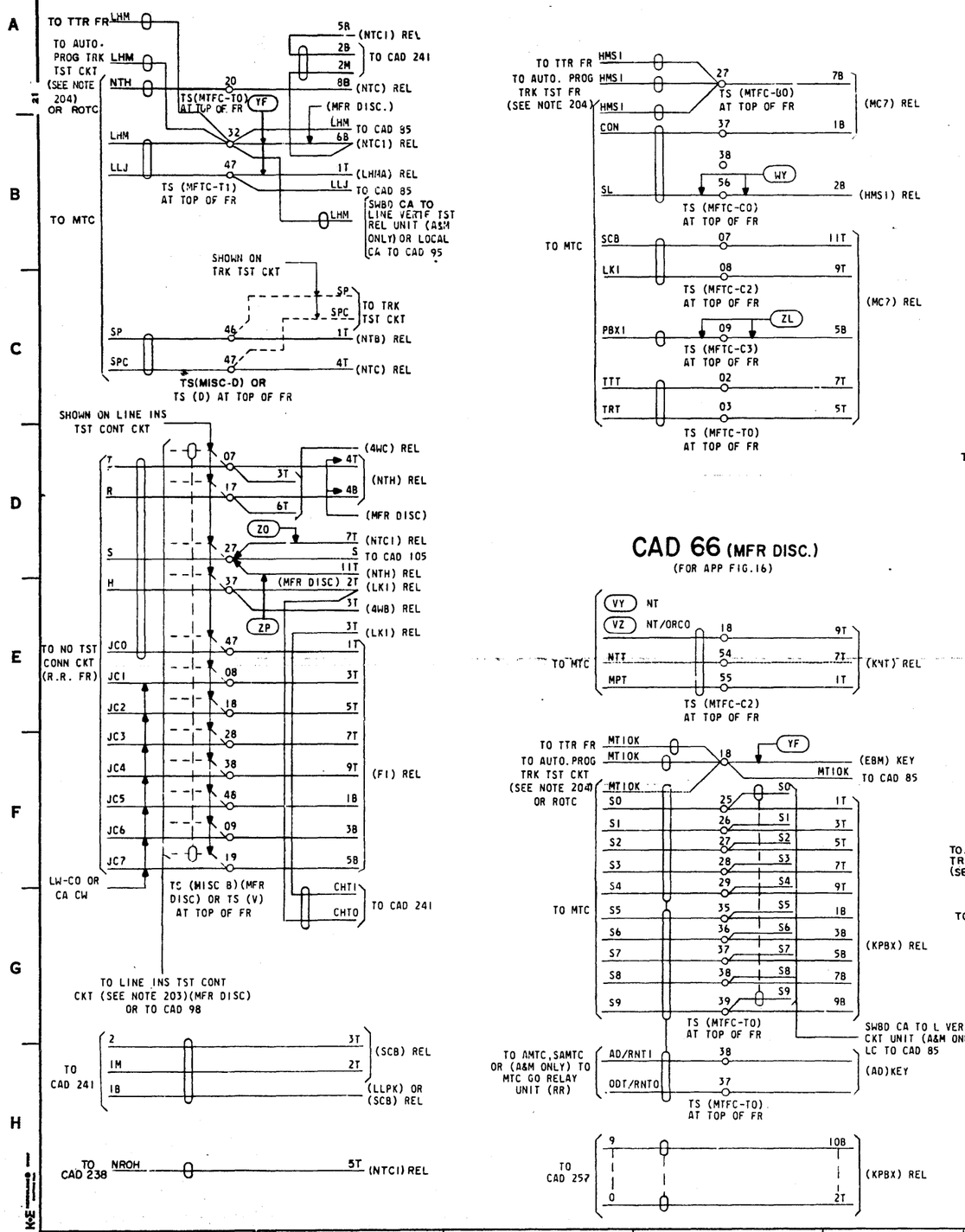
PRINTED IN U.S.A.

SD-25800-01-G7

STABLO

CAD 64 (MFR DISC.)

(FOR APP FIG. 14 & 60)



CAD 65 (MFR DISC.)

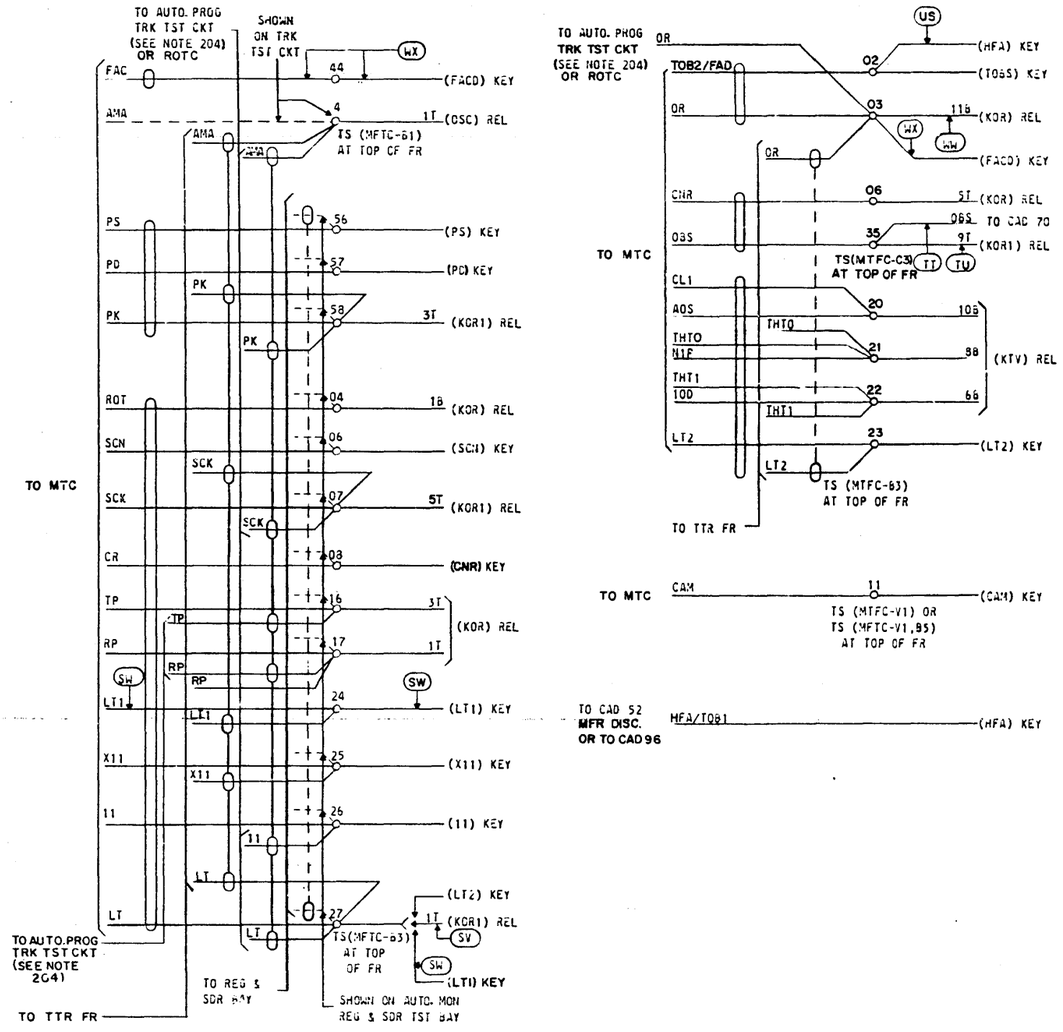
(FOR APP FIG. 15)

CAD 66 (MFR DISC.)

(FOR APP FIG.16)

CAD 67 (MFR DISC.)

(FOR APP FIG. 17, 20)



DRAWING ISSUE
51D
52A
56D
71D R/F
82D
ISSUE 101A

CAD 68 (MFR DISC.)

(FOR APP FIG. 171, A & B)

TO TTR FR — BT — 41 (MTFC-83) TS AT TOP OF FR

SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) BT OR LC TO CAD 95

BT TO CAD 51 (MFR DISC) OR 9T (MFG DISC) OR 9T (TV4) REL

TRK — 38 — TRK 68 (TV3) REL

TO MA TST FR CONN — TR2 — 39 — TRK 98 TO CAD 51 (MFR DISC) TR2

SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95

TO AUX MA TST FR CONN OR TO MA TST CONN UNIT FOR ANI TV ON ANI TV CONN FR

TRL — 42 — (TV3), (MC1), OR (TV1) REL

TO AUTO PROG TRK TST CKT (SEE NOTE 204) OR ROTC — BT, TRK, TRL — (MTFC-C) TS AT TOP OF FR

SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95

DIS1 — 47 — (TV3) OR (MC1) REL

RBT1 — 49 — RBT1 TO CAD 51 (MFR DISC) OR 6T (TV4) REL

TO AUX MA TST FR CONN OR TO MA TST CONN UNIT FOR ANI TV ON ANI TV CONN FR

SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95

TO MA TST FR CONN — MRL — 53 — MRL 6T (TV3) REL

MOI — 52 — MOI TO CAD 85; MOI TO CAD 51 (MFR DISC) OR 6B (TV4) REL

RBT — 54 — (MTFC-T0) TS AT TOP OF FR — RBT TO CAD 51 (MFR DISC) OR 3T (TV4) REL

TO AUTO PROG TRK TST CKT (SEE NOTE 204) OR ROTC — DIS1, RBT1, MRL, MOI

RLA	08	98	(MC8) REL
TIK	00	58	
DIST	05	7T	(TV3) REL
MOA	07	5T	(MC8) REL
TSL	10	118	
OF	20	4T	(TV4) REL
OST	56	7T	
TR	57		(TV1) OR (TV3) REL
RL	59	4T	(TV3) REL

(MTFC-V1) TS (MFR DISC) OR (MTFC-V1, B5) TS AT TOP OF FRAME

ITR	09	48	(MC8) REL
27R	10	78	(TV3) REL

(MTFC V2 V3 & WO) TS AT TOP OF FR

NTP	57	3T	(TV1) REL
TTL	45	3T	(SDR2) REL
TLV	59	48	(MC8) REL

(MISC-D) TS (MFR DISC) OR (D) TS AT TOP OF FR

TO AUX MA TST FR CONN OR TO MA TST CONN CONT & PREF UNIT FOR ANI TV ON ANI TV CONN FR

TTL	20	6M OR 3T	(SDR2) REL
TTP	21		(TV1) OR (TV) REL

(MISC-E) TS (MFR DISC) OR (E) TS AT TOP OF FR

TO CAD 85 "YF" TO CAD 51 (MFR DISC) OR TO CAD 96 — DIS — 10B (MC8) REL

TO CAD 70 (MFR DISC) OR TO CAD 91 — SDT1 — 48 (LV5) REL OR (SDR2) KEY

TO CAD 53 (MFR DISC) OR TO CAD 96 — SKT 10B (SDR2) REL; NDT 3T (TV2) REL

CAD 69 (MFR DISC.)

(FOR APP FIG. 19, 21)

TO MA TST FR CONN — MKT5 — 55 — (MTO-9) KEY; MKS — 56 — (MTO) KEY

TO 1ST SUPL MA TST FR CONN — MKT6, MKT7, MKT8 — 16, 17, 18 — (MKO-9) KEY

TO 2ND SUPL MA TST FR CONN — MKT9 — 19 — (MISC-D) TS AT TOP OF FR; LW–AW

TVS — 22 — (MTO) KEY

TO AUX MA TST FR CONN — TVTO — 30 — (MTO-4) KEY; TVT4 — 34 — (MISC-E) TS AT TOP OF FR

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-69.

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CAD 70
(FOR FIG. 20 & 171)

SWBD CA TO L VERIF TST REL UNIT (A & M ONLY) OR LC TO CAD 95

OFF0 08 OFF0 12T
OFF1 01 OFF1 10T
OFF2 02 OFF2 8T
OFF3 03 OFF3 6T (OFF) REL
OFF4 04 OFF4 4T
OFF5 05 OFF5 2T

TH0 10 TH0 2B
TH1 11 TH1 4B
TH2 12 TH2 6B
TH3 13 TH3 8B
TH4 14 TH4 10B (TH) REL
TH5 15 TH5 2T
TH6 16 TH6 4T
TH7 17 TH7 6T
TH8 18 TH8 8T
TH9 19 TH9 10T

HN0 20 HN0 2B
HN1 21 HN1 4B
HN2 22 HN2 6B
HN3 23 HN3 8B
HN4 24 HN4 10B (HN) REL
HN5 25 HN5 2T
HN6 26 HN6 4T
HN7 27 HN7 6T
HN8 28 HN8 8T
HN9 29 HN9 10T

T0 30 T0 2B
T1 31 T1 4B
T2 32 T2 6B
T3 33 T3 8B
T4 34 T4 10B (T) REL
T5 35 T5 2T
T6 36 T6 4T
T7 37 T7 6T
T8 38 T8 8T
T9 39 T9 10T

U0 40 U0 2B
U1 41 U1 4B
U2 42 U2 6B
U3 43 U3 8B
U4 44 U4 10B (U) REL
U5 45 U5 2T
U6 47 U6 4T
U7 48 U7 6T
U8 49 U8 8T
U9 50 U9 10T

TO AUX MASTER TEST FR CONN OR TO MASTER CONN UNIT FOR ANI TV ON ANI TV CONN FR

(MTFC-V0) TS AT TOP OF FR

(MFR DISC)

TO AUX MA TEST FR CONN OR MA TST CONN UNIT FOR ANI TV ON ANI TV CONN FR

TOP 01 10T
TNO 02 12T
OP1 03 2B (TVT) REL
MC 04 2T
SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95 (RC2) REL
RK 08 6T

C1-1T 41 4B
C1-2T 42 6B
C1-3T 43 8B
C1-4T 44 10B (TVT) REL
TET 23 12B
CIFAT 54 8T

CK 52 4B (RC1) REL
DTK1 53 12T (RC2) REL
TIC 56 8B (RC2) REL
(MTFC-V1) TS (MFR DISC.) OR (MTFC-V1, B5) TS AT TOP OF FR
(V) CKG
(V, 5) CKG/GC 08 6T (TVT) REL
CKG SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95

(MTFC-V2, V3, & W0) TS AT TOP OF FR

TPT 13 TPT (KTV) OR (TV3) REL
NPT 14
LST 16 11T
4EG 17 7T
5D8 18 9T (KTV) REL
L5D 19 11B
SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95

PT 20 6T (RC1) REL

TO AUX MASTER TEST FR CONN OR MASTER TST CONN UNIT FOR ANI TV ON ANI TV CONN FR

C 26 2T
IR 27 10T (RC2) REL
RD 28 4B (MFR DISC.)
TBL 33 2B
PI 36 4T (RC1) REL
DS 38 8B

UK 39
DTN 34
DTKA 45
TCT 46
SEE CAD 73

ICM 47 8T
XT 48 6B (RC2) REL
RDL 49 2B

P 53 2T
PA 37 10T (RC1) REL
PT1 58 6B
(MTFC-V2, V3 & W0) TS AT TOP OF FR

TO AMA TV FR O OR CAMA TV FR O OR PROG-CONTROLLED TV CKT

(MFR DISC.)
TVT1 80
SDT2 81
SDT1 82
TVT2 20
(TVT1) KEY NOTE 305
(TOF) OR (SDT2) KEY
TO CAD 68
(TVT1) KEY OR (TV) REL

(MISC-B) TS (MFR DISC) OR (B) TS AT TOP OF FR

(MFR DISC)
TO MA TST FR CONN
TO AUTO. PROG TRK TST CKT (SEE NOTE 204)
NOB 36
(MTFC-C3) TS AT TOP OF FR
TT 28 (KTV) REL
TU (OBS) KEY
SWBD CA TO L VERIF TST REL UNIT (A&M ONLY) OR LC TO CAD 95

TO CAD 67 (MFR DISC) OR TO CAD 96
OBS 48 (KTV) REL
TO CAD 91
SDT2 (TOF) OR (SDT2) KEY
TVT1 (TVT1) KEY
TVT2 (TVT2) KEY
(MFR DISC)

TO MASTER TST FR CONN
TO TRK TST REG FR
(MFR DISC.)
OBS1 99 (OBS) KEY
(MTFC-C2) TS AT TOP OF FR
(MFR DISC)
NOBT 57 (TT) 1B
OBST 58 3B (KTV) REL
NOBT
(MTFC) TO TS AT TOP OF FR

CAD 71 (MFR DISC)
(FOR FIG C & D)

0 OFF OFF0
1 OFF1
2 OFF2
3 OFF3
4 OFF4
5 OFF5
(OFF) KEY

CROSS CONN PER NOTE 305

0AP 0AP
0AT 0AT
0BP 0BP
0BT 0BT
0AE 0AE
0BE 0BE
TO CAD 61

(CONT-C) TS AT TOP OF FR
WJ WJ

CAD 72 (MFR DISC)
REPLACED BY CAD 136 CAD 137, CAD 128
(FOR FIG 9, 13-P/O FIG 43)

TLT
0 1 2 3 (36) SW SEC 1

CROSS CONN PER NOTE 311

F0 3T (KLT) REL
FG0 1B
FG1 3B (KTF) REL
FG2 5B

CROSS CONN PER NOTE 304

(CONT-O) TS AT TOP OF FR
TO CAD 59 (MFR DISC) OR TO CAD 96

TF
A 5T
B 7T (KLT) REL

TF0 1T
TF1 3T
TF2 5T (KTF) REL
TF4 7T
TF7 9T

(CONT-B) TS AT TOP OF FR
TO CAD 59 (MFR DISC) OR TO CAD 96
STRAP TO SIMILARLY DESIG TERMS ON TS

TUA
0 1 2 3 (SG) SW SEC 1

TUB
0 1 2 3 (SG) SW SEC 2

(CONT D) TS AT TOP OF FR

CAD 73 (MFR DISC)

STRAP TO SIMILARLY DESIG TERMS ON TS
SHOWN ON CAD 70
39 UK
56 DTN
45 DTKA
46 TCT
(CONT-D) TS AT TOP OF FR
(MTFC-V2, V3 & W0) TS AT TOP OF FR

CAD 74 (MFR DISC)
REPLACED BY CAD 79980 (FOR FIG 21)

TO FIRST SUPL MASTER TEST FR CONN
MKT6 16
MKT7 17
MKT8 18
(MT6-8) KEY

TO SECOND SUPL MASTER TEST FR CONN
MKT9 19
MKT10 26
MKT11 27
(MT9-11) KEY

TO MASTER TEST FR CONN
MKT0 50
MKT5 55 (MT0-5) KEY
MKS 56 (MT0) KEY
(MISC-D) TS AT TOP OF FR

TO MASTER TEST FR AMA CONN
TVS 22
TVT0 30 (MT0) KEY
TVT4 34 (MT0-4) KEY
(MISC-E) TS AT TOP OF FR

TO MASTER TEST FR CONN
PT5 50
PTT0 51 (MT0) KEY
PTT1 52
PTT2 53 (MT0-2) KEY
(MISC-G) TS AT TOP OF FR

TO MTF CONN UNIT ON IDDD PER FR
PTT3
PTT4 (MT3) KEY (MT4) KEY
PTT5
PTT6
PTT7 (MT5) KEY (MT6) KEY (MT7) KEY
TO MTC UNIT FOR INC REG PRT CONN CONT
READ IN OFFICES EQUIPPED WITH INC REG PRT
READ IN OFFICE EQUIPPED WITH IDDD PRETRANSLATOR
SWBD CA TO L VERIF TEST REL UNIT (A & M ONLY) OR LC TO CAD 95

CAD 75
(FOR FIG. E & F)

TO AUTO. PROG TRK TEST CKT (SEE NOTE 204)
TM TM
MTPT 23 1T
MB
TM 30 7T (PC2) REL
MPT 57 3T (PT) REL
(MISC-D) TS (MFR DISC) OR (D) TS AT TOP OF FR

(MFR DISC)
MTL(1) 07 MTL(1)
ATK 17 ATK TO CAD 97

GIT 30 1B
GR 31 3B
HD 32 5B
PRL 33 7B (PG1) REL
RLR 34 9B
PCN 35 1B
PTR 36 3B (PC2) REL
CMA 37 1B
CMB 38 3B
CMC 39 5B (PC3) REL
CM3 40 3T
SD 41 5T
PTP 42 1T
CMA
CMB
CMC
(MISC-G) TS, (MFR DISC) OR (G) TS AT TOP OF FR
TO MASTER TEST FR CONN
(MFR DISC)

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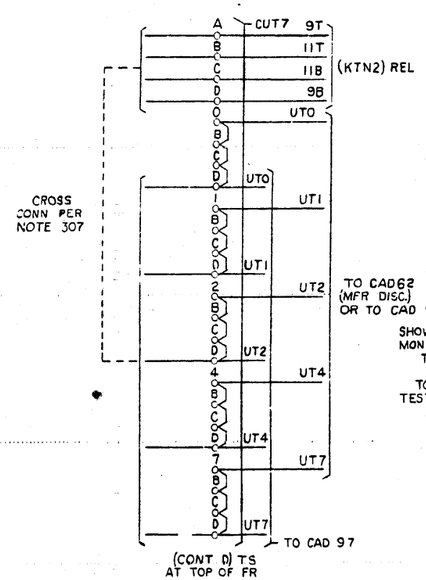
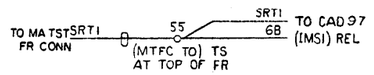
CAD 76 (MFR DISC.)

REPLACED BY CAD 104
(FOR FIG. 11)



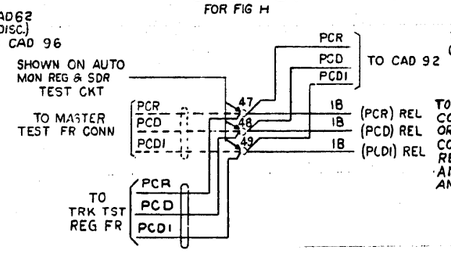
CAD 77 (MFR DISC)

REPLACED BY CAD 96
(FOR FIG. 22)



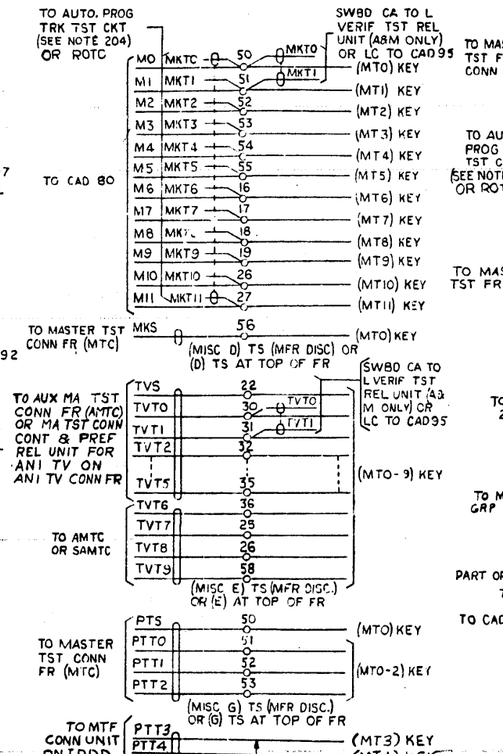
CAD 78 (MFR DISC.)

FOR FIG H



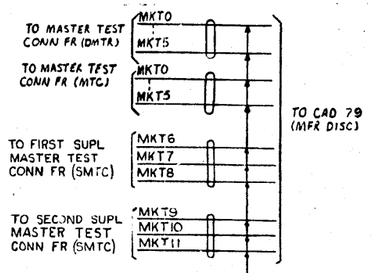
CAD 79 (MFR DISC)

REPLACED BY CAD 96
(FOR FIG 21)



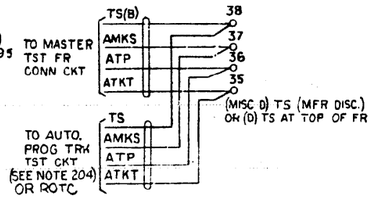
CAD 80 (MFR DISC)

REPLACED BY CAD 99 (FOR FIG. 21)



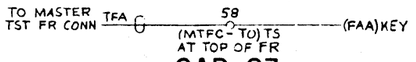
CAD 81 (MFR DISC.)

REPLACED BY CAD 96
(SEE NOTE 204)

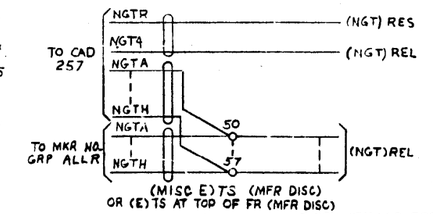


CAD 82 (MFR DISC.)

(FOR FIG. 30)

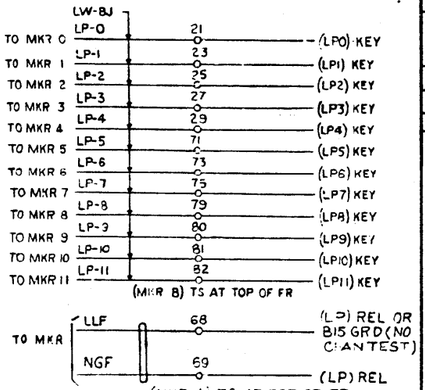


CAD 83 (MFR DISC.)



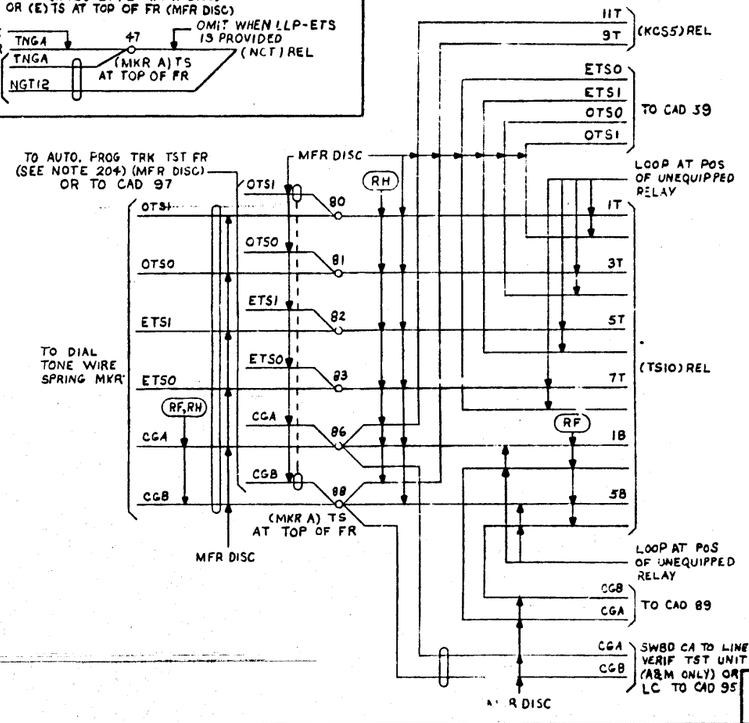
CAD 84 (MFR DISC)

REPLACED BY CAD. 102
(FOR FIGS. 33 & 34)



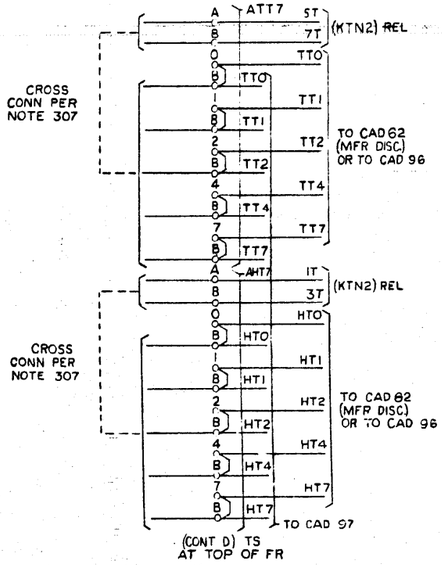
PART OF CAD 85

(FOR FIGS. 25 & 26)



CAD 82 (MFR DISC.)

(FOR FIG. 30)



DRAWING ISSUE		
51D	NP	LW
	LW	LLP
	LLP	LW
52A	LW	LLP
	LLP	ORT
55D	ORT	KMS
	KMS	AMP
7D	AMP	GLK
78D		
80D		

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

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PART OF CAD 85

(FOR APP FIG 25)

TO CAD 51 (MFR DISC) OR TO CAD 96
LK2 1T
LK3 3T
TRLI 5T
TI 1B
ROG 7T (TS2) REL
CIB 3B
DIS 9T
DIS
TO CAD 68

TO CAD 52 (MFR DISC) OR TO CAD 96
LHMT 11B

TO CAD 56 (MFR DISC) OR TO CAD 96
CSG2 11T
RCT 9T (TS3) REL
MTI0 9B
MTI9 11B

TOS0 1T
TOS1 3T
TOS2 5T
TOS3 7T (TS4) REL
TOS4 9T
MTIK 3B
MT2 5B
TO CAD 58.8 88 (MFR DISC) OR TO CAD 96
ASB 1P

XFT 5T
MT2K 7B
TBT 9T
ALT 7T (TS5) REL
SBT 11T
FTC 3T
MT3K 9B
MT9K 11B
TSE1 11T (TS6) REL
TSE2 11B
TSK 11T
MT5 11B (TS7) REL

MT3 11T
MT9 11B
FTC0 1T
FTC1 3T
FTC2 5T
FTC3 7T
FTC4 9T (TS8) REL
FTC5 1B
FTC6 3B
FTC7 5B
FTC8 7B
FTC9 9B
FTCI0 1T
FTCI1 3T
FTCI2 5T
FTCI3 7T
FTCI4 9T (TS9) REL
FTCI5 1B
FTCI6 3B
FTCI7 5B
FTCI8 7B
FTCI9 9B
TO CAD 59 (MFR DISC) OR TO CAD 96
(MFR DISC)

TO AUTO. PROG TRK TST CKT
TO MASTER TST FR CONN
MT12 MT12 44 (MFR DISC)
(MTFC-T0) AT TOP OF FR
9B 10B (TS2) REL
LOOP AT POS OF UNEQUIPPED REL
MT12 TO CAD 92

(MFR DISC)
TTO 1T
TTI 3T
TT2 5T
TT3 7T
TT4 9T
TT5 1B
TT6 3B (TS6) REL
TT7 5B
TT8 7B
TT9 9B
TTI0 1T
TTI1 3T
TTI2 5T
TTI3 7T
TTI4 9T (TS7) REL
TTI5 1B
TTI6 3B
TTI7 5B
TTI8 7B
TTI9 9B
TO CAD 59

MT8K 3B
KJ8Q 1B
TO CAD 60 (MFR DISC) OR TO CAD 96
MT7 5B
MT8 7B (TS3) REL
TO CAD 63 (MFR DISC) OR TO CAD 96
TMK 7T
EXT 11B
TO CAD 64 (MFR DISC) OR TO CAD 96
LHM 3T
LLJ 5T
TO CAD 86 (MFR DISC) OR TO CAD 96
MTI0K 9B (TS5) REL
TO CAD 68 (MFR DISC) OR TO CAD 96
MOI 11T (TS2) REL

TO CAD 63 (MFR DISC) OR TO CAD 96
VG
TLH
TLHI
(TSI0) REL
LOOP AT POS OF UNEQUIPPED REL

TO MASTER TST FR CONN NAMA 0 (MFR DISC) 5B (TS2) REL
(MTFC-C3) T.S. AT TOP OF FR

CAD 86

(FOR FIGS. 27 28, & 39)

TO TRANSVERTER CKT (TV FR O) OR PROGRAM CONTROLLED TRANSVERTER CKT
TVK 36 (MFR DISC) 4T (MTCP) REL
(MISC B) TS (MFR DISC) OR (B) TS AT TOP OF FR

(MFR DISC.) (A&M ONLY)
TO LINE VERIF TST REL UNIT
LPR 69 6T
LVP 68 10T (LVP) REL
TO AUTO. PROG TRK TST CKT (SEE NOTE 204) OR ROTC
PR 29 4T
ATTP 28 1T (ATTP) REL
(ATTP) NET
(MISC D) TS (MFR DISC) OR (D) TS AT TOP OF FR

TO CAD 53 (MFR DISC) OR CAD 96
SKT 3T (EPR) REL
SN
TO CAD 91 TVK 4T (MTCP) REL
TO CAD 97 PRI 26 (PR) REL
(CAPT T) TS AT TOP OF FR
(MFR DISC) (MFR DISC)

CAD 87

(MFR DISC) REPLACED BY CAD 96
(SEE NOTE 205)

TO MASTER TEST FRAME CONN CKT.
FS0 40
FS2 42
TO AUTO. MON REG & SDR TEST CKT.
FS0
FS2
TO LINE INSULATION TEST CONT CKT
FS0
FS2
(MTFC-B0) TS AT TOP OF FR

CAD 88

(FOR APP FIGS 35, W & X)

(MFR DISC)
OS0 15 1T
OS1 16 3T
OS2 17 5T (KOSA) REL
OS3 18 7T
OS4 19 9T
OSG0 25 1B
OSG1 26 3B
OSG2 27 5B
OSG3 28 7B
OSG4 29 9B
(MFR DISC) (MFTC-B1) TS AT TOP OF FR
OSG5 10 1T
OSG6 11 3T
OSG7 12 5T
OSG8 13 7T
OSG9 14 9T (KOSG) REL
(MFTC-B3) TS AT TOP OF FR
22M (KOSA) REL
OSA 39 11B
SSA 46 9B (KOSA) REL
SSB 47 7B
(MTFC-C3) TS AT TOP OF FR
18M
19M
TO MASTER TST FR CONN

TO MKR CKT
MT2 40 (MFR DISC) 4T (KOS) REL
MT2 TO CAD 85
ASB 45 2T (ASB) REL
ASB TO CAD 85
(MKR A) TS AT TOP OF FR

TOS0 05
TOS1 06
TOS2 07
TOS3 08 (OS) KEY
TOS4 03
SIA 15 11B
SIB 16 1IT (KOSG) REL
MTIK 30 MTIK SWBD CA TO LINE VERIF TST REL UNIT (A&M ONLY) OR LOCAL CA TO CADOS
(OSS) KEY
TO AUTO. PROG TRK TST CKT (SEE NOTE 204) OR ROTC
MTIK (MFTC-I0) TS AT TOP OF FR
(MFR DISC)
TOS0
TOS1
TOS2 TO CAD 85
TOS3
TOS4
MTIK
(MFR DISC)

TO MASTER TEST FR CONN.
OSGI0 38 (TH) 11M
OSGI1 29 12M (KOSA) REL
(MFTC-VI B5) T.S. AT TOP OF FR
(MFR DISC)

DRAWING ISSUE
510 GA LH AM2 DIS AM2
560 PTM AM2
710 AM2

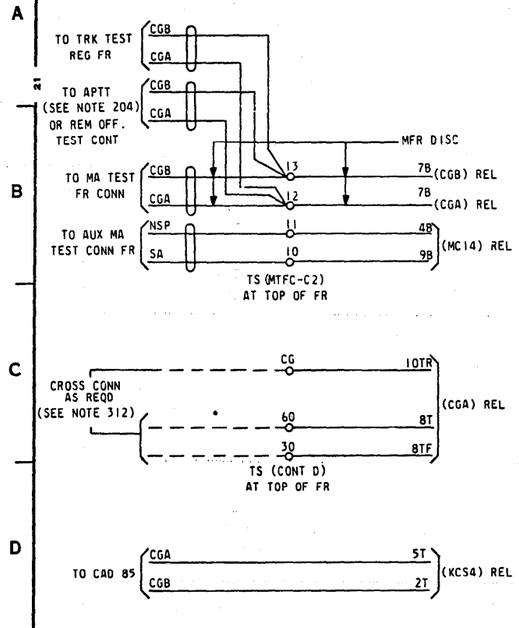
ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-GI2
BELL TELEPHONE LABORATORIES INCORPORATED 6S

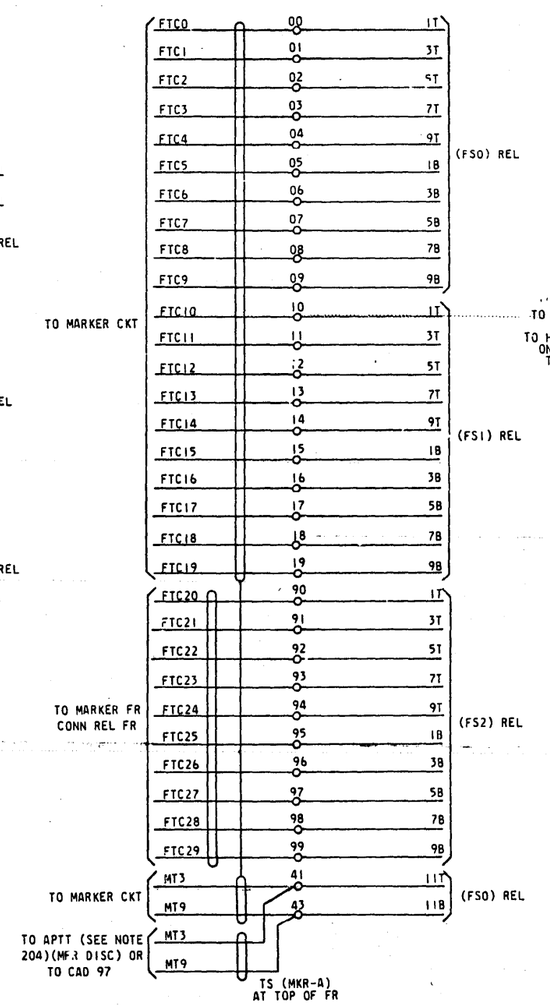
SD-25800-01-GI2

A B C D E F G H I
0 1 2 3 4 5 6 7 8 9

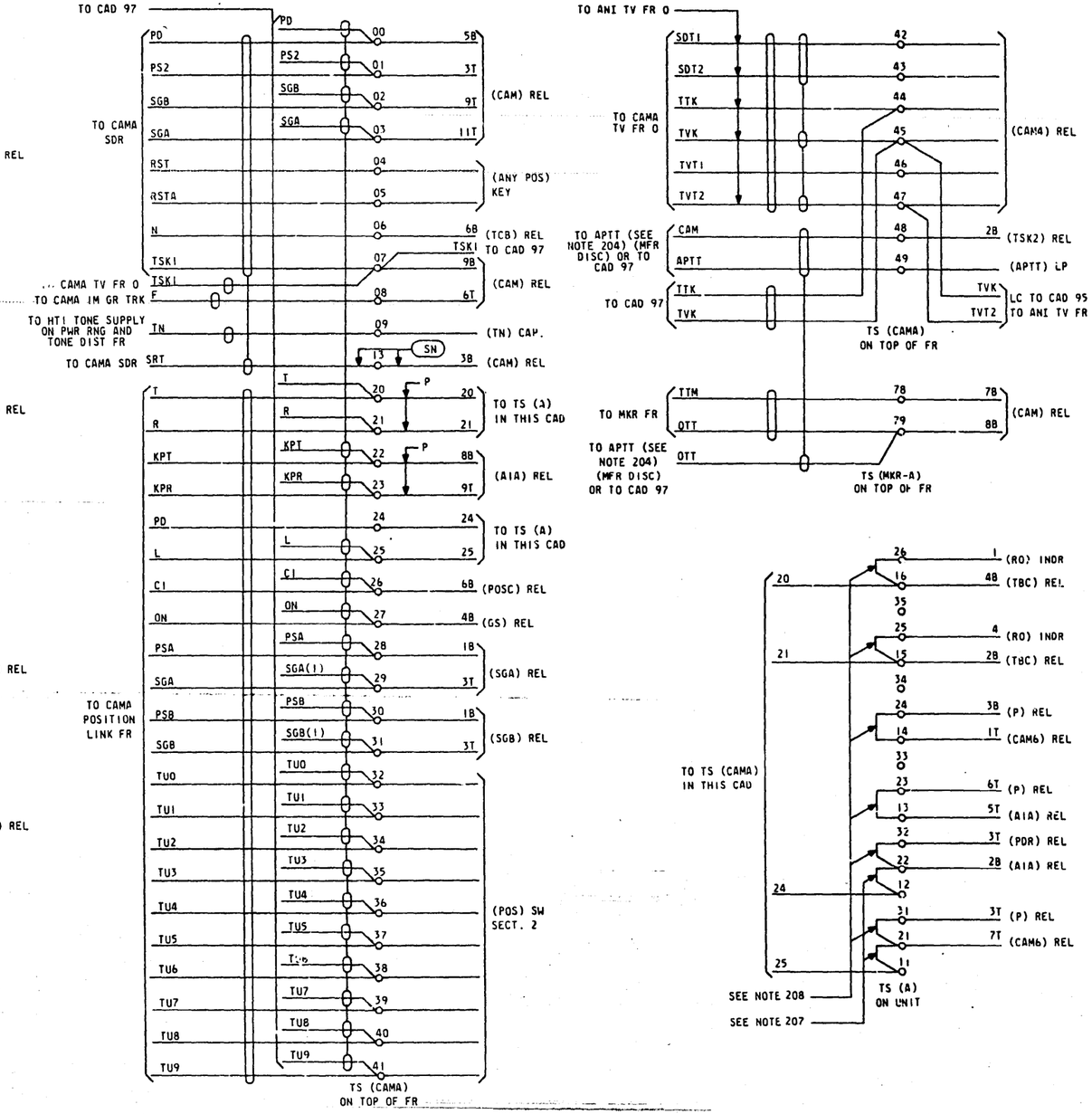
CAD 89 (MFR DISC)
(FOR APP FIG 15 & 37)



CAD 90 (MFR DISC)
(REPLACED BY CAD 156)
(FOR APP FIG V)



PART OF CAD 91 (MFR DISC)
(REPLACED BY CAD 116, 133, AND 156)
(FOR APP FIG R,Q,40 AND 46)



DRAWING ISSUE 71D SAV FEA

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MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

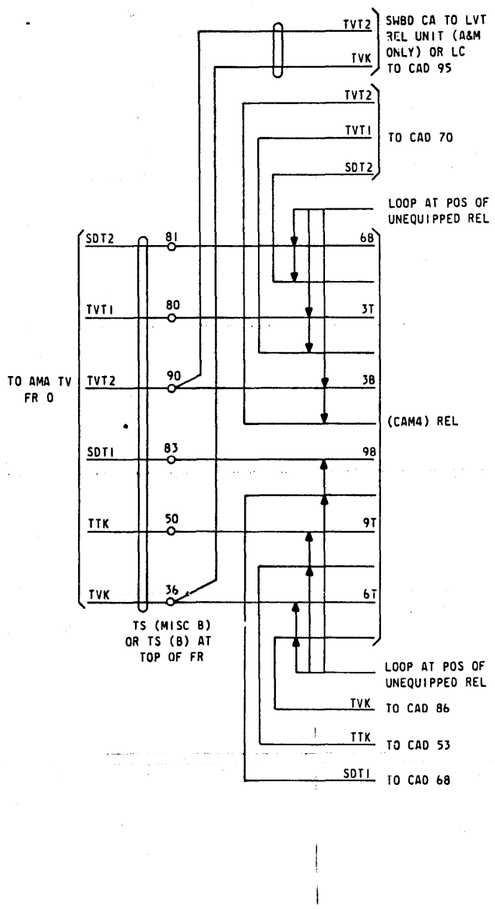
SIZE 6S

SD-25800-01-G13A

SD-25800-01-G13A

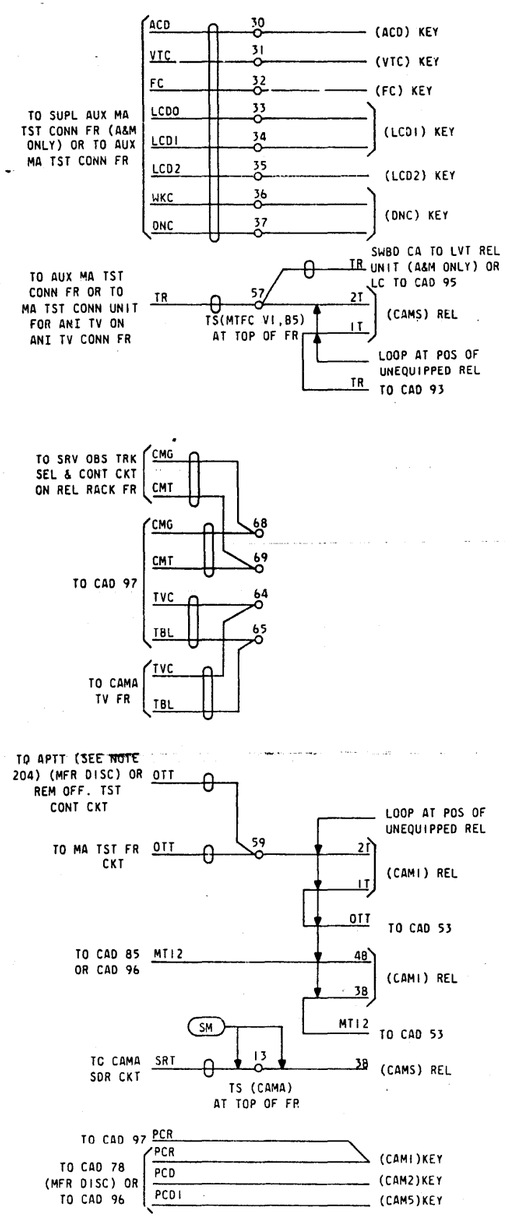
PART OF CAD 91 (MFR DISC)

(REPLACED BY CAD 116, 133, AND 156)
(FOR APP FIG R, Q, 40 AND 46)



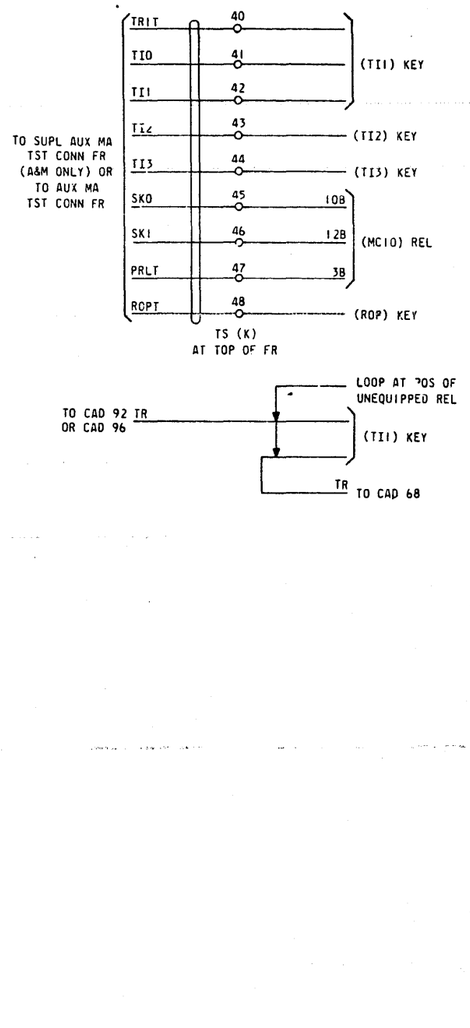
CAD 92 (MFR DISC)

(FOR APP FIG 41)



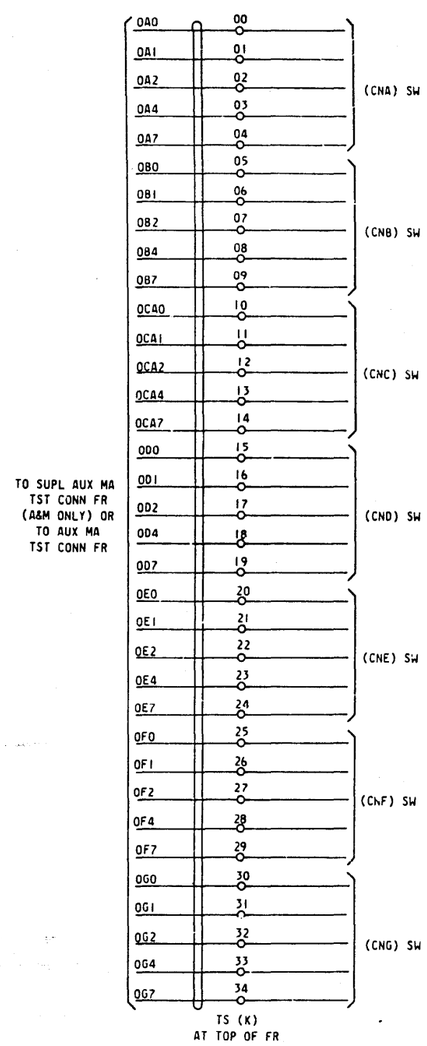
CAD 93 (MFR DISC)

(FOR APP FIG 44)



CAD 94 (MFR DISC)

(REPLACED BY CAD 96)
(FOR APP FIG 45)



DRAWING ISSUE 71D SAY 7-15

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MASTER TEST CONTROL CIRCUIT (2)

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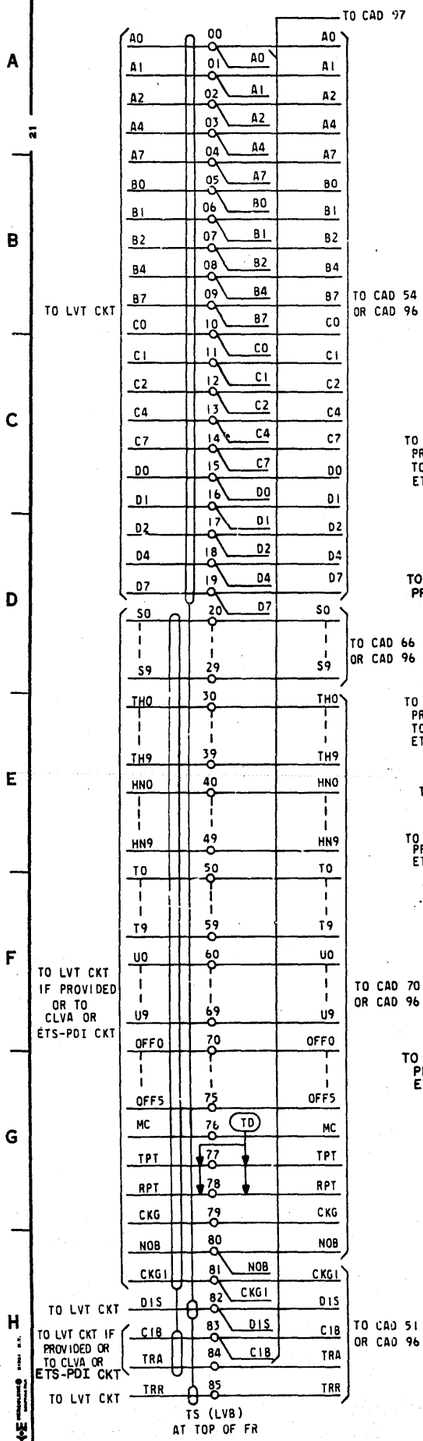
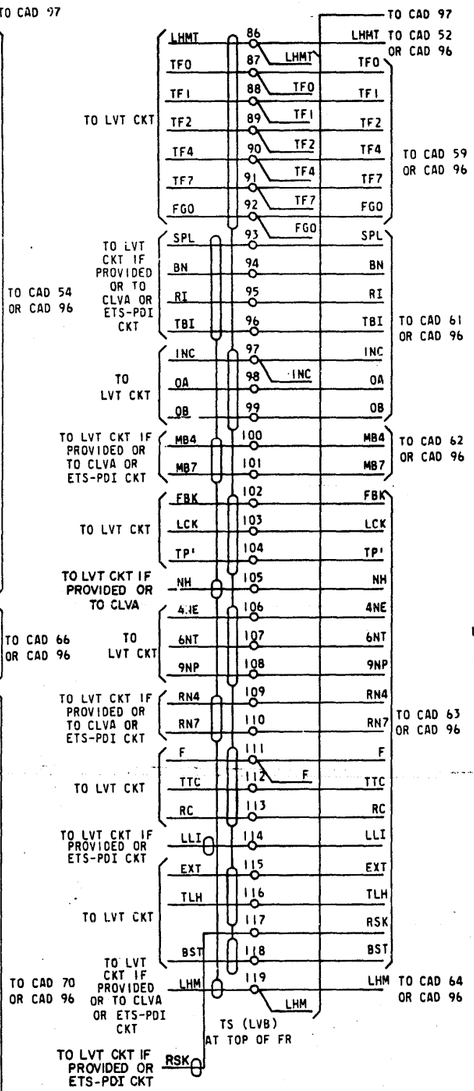
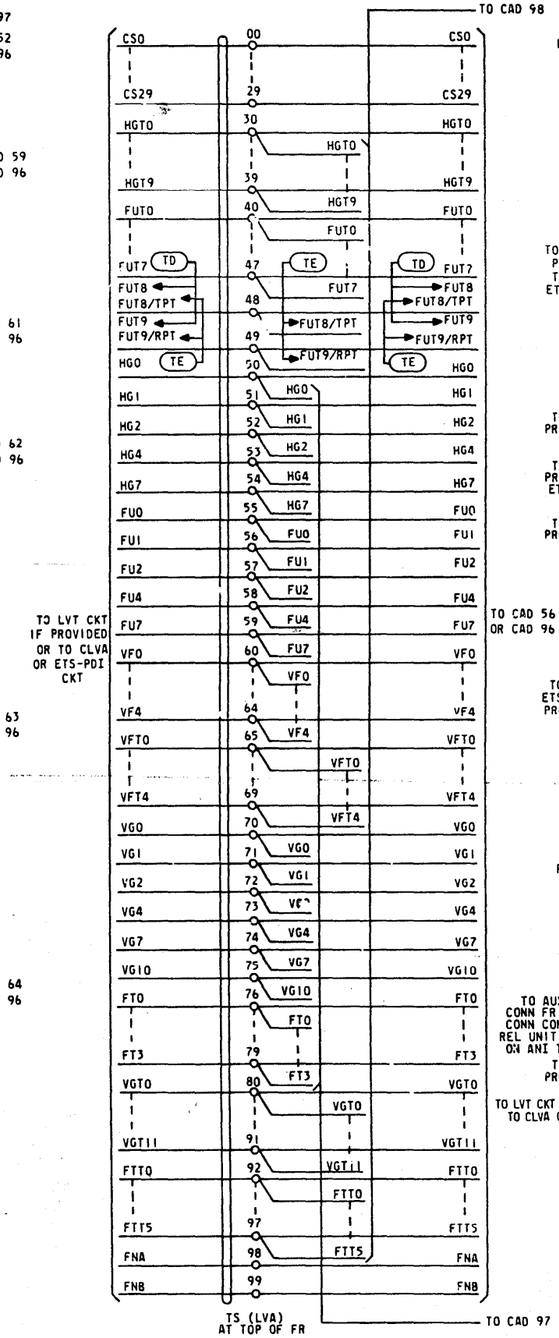
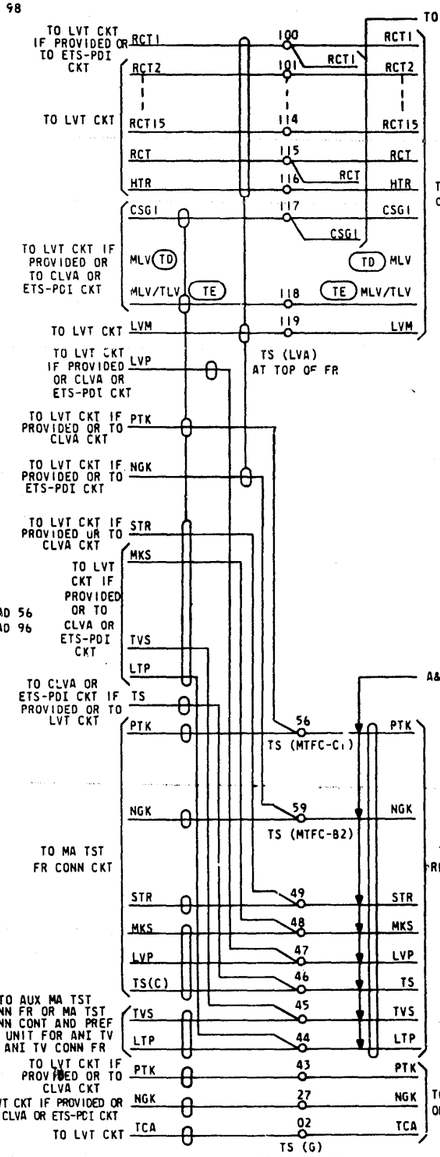
CAD 95 (MFR DISC)

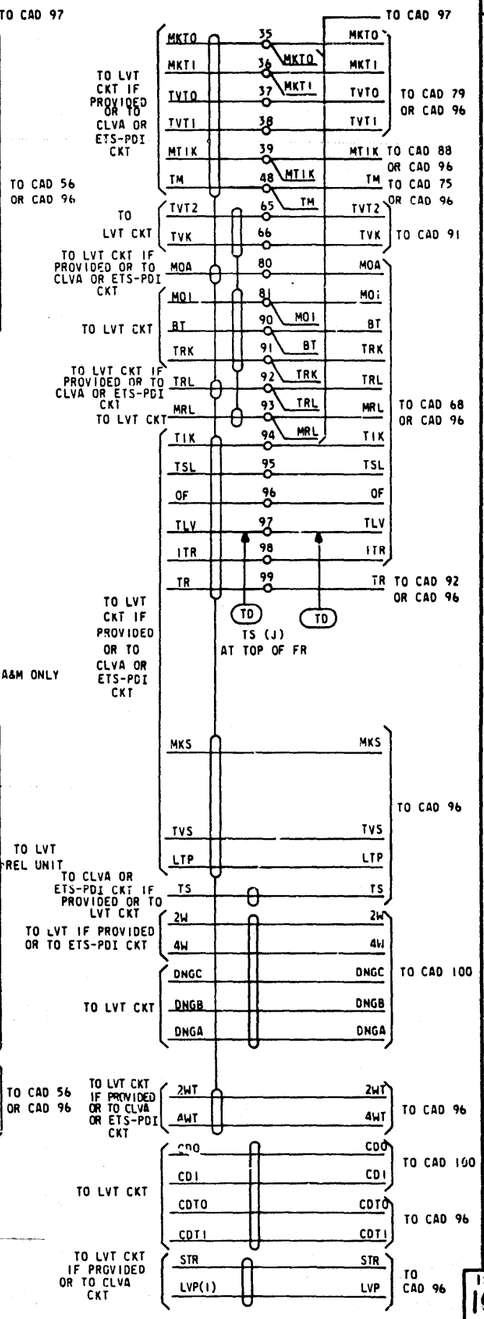
(FOR LVT REL UNIT)











ISSUE 103A

DRAWING ISSUE 71D

MASTER TEST CONTROL CIRCUIT

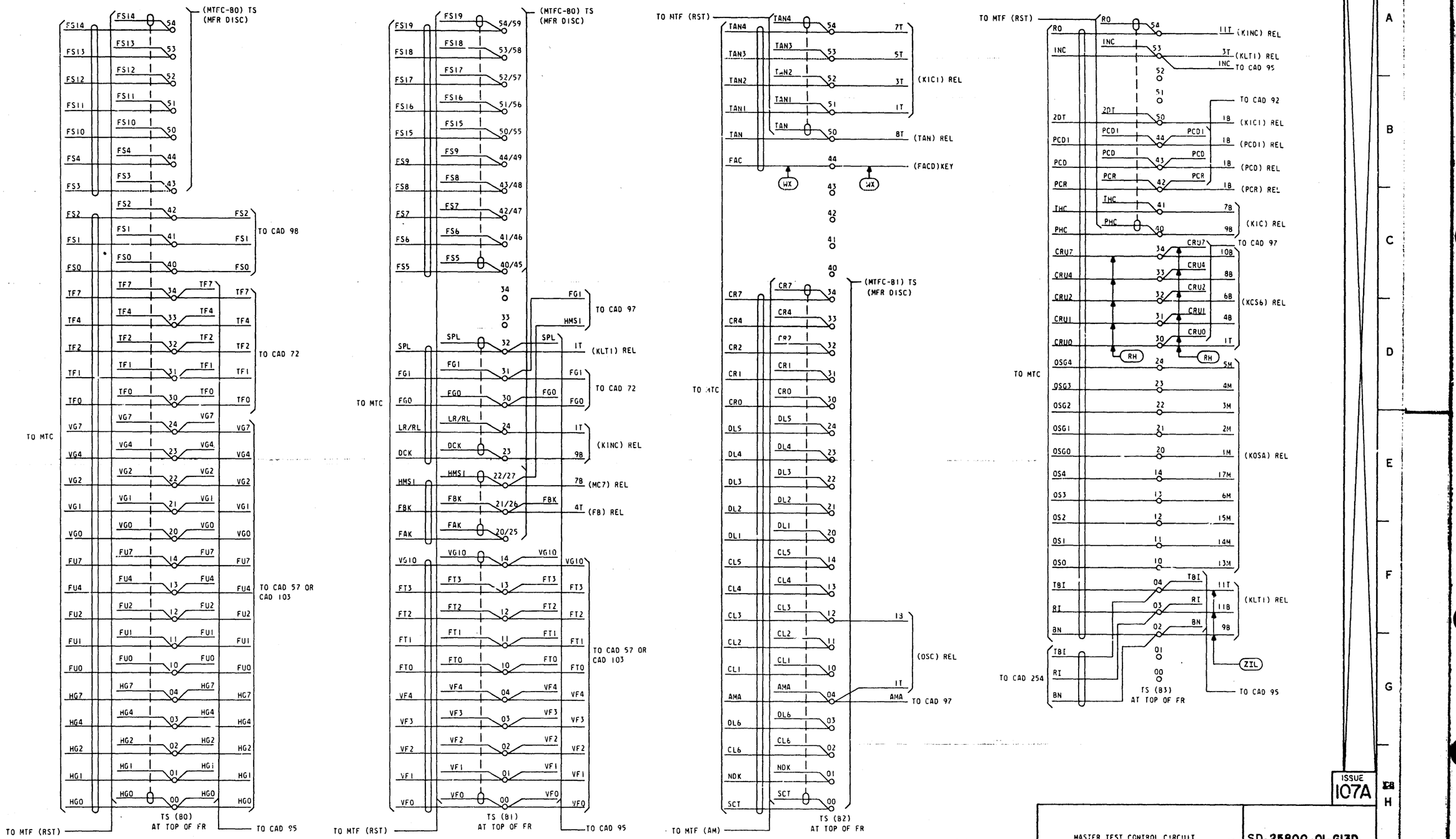
SD-25800-01-613C

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-613C

PART OF CAD 96 (MFR DISC)

(REPLACED BY CAD 117,118,119, AND 120)
SWITCHBOARD CABLING FROM THE MTF(CONT) TO THE MTC,AMTC,OMTC,PRTD, AND THE ASSOCIATED CABLING TO THE MTF(AM)AND MTF(RST)



DRAWING ISSUE	
71D	BM

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G13D

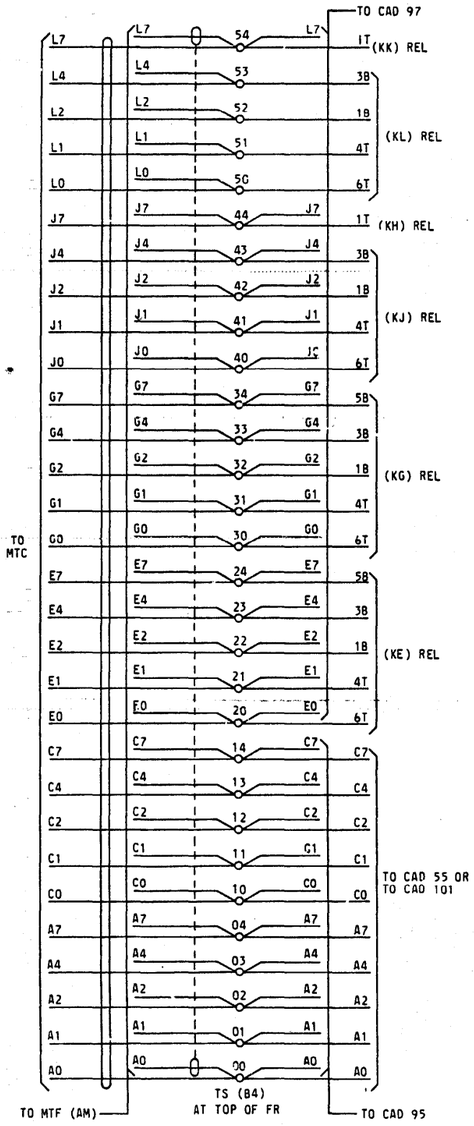
BELL TELEPHONE LABORATORIES INCORPORATED

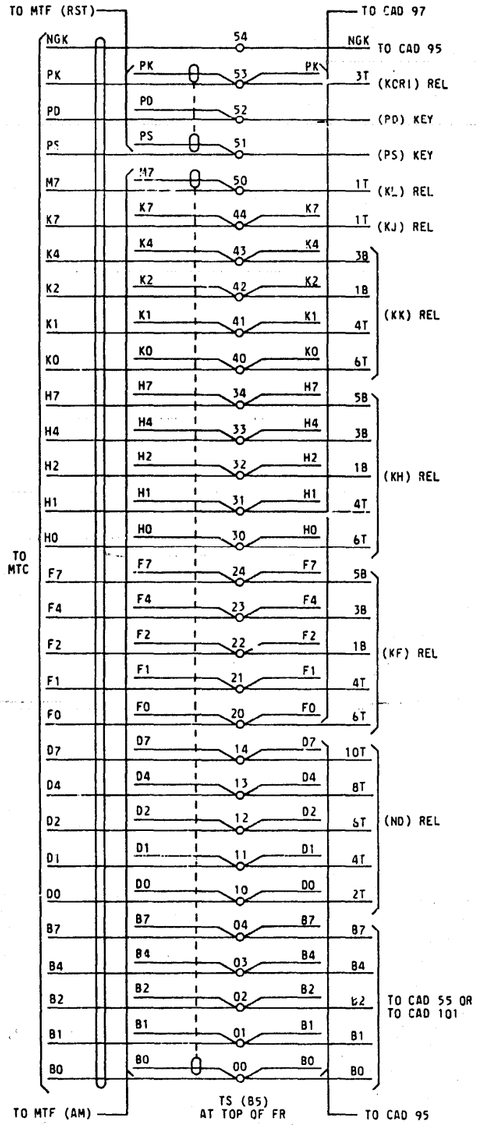
6S

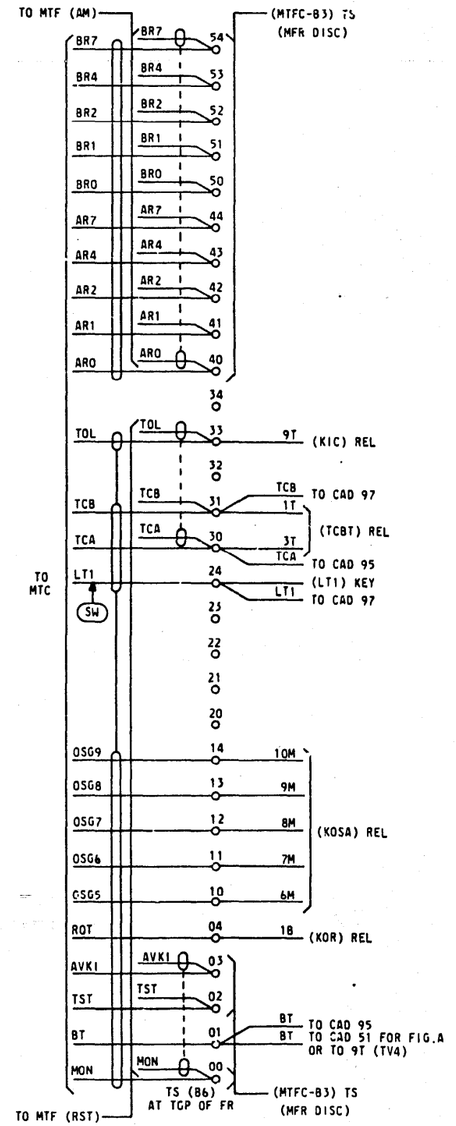
SD-25800-01-G13D

PART OF CAD 96 (MFR DISC)

(REPLACED BY CAD 121, 122, AND 123)
SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE MTC, AMTC, DMTC, PRTD, AND THE ASSOCIATED CABLING TO THE MTF (AM) AND MTF (RST)







DRAWING ISSUE 71D SGF

71

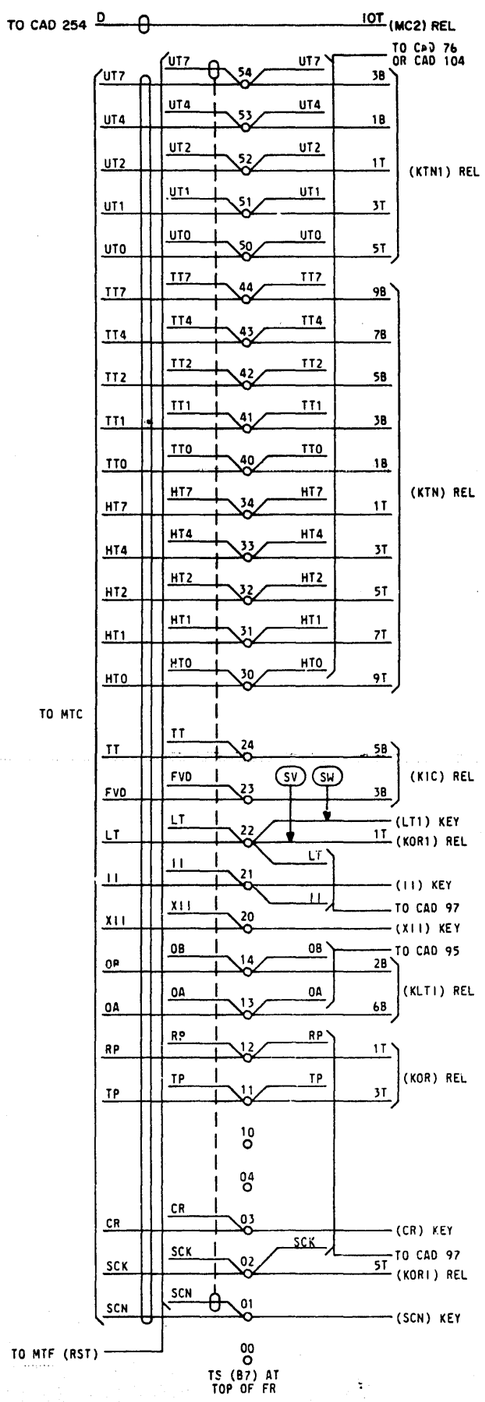
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G13E

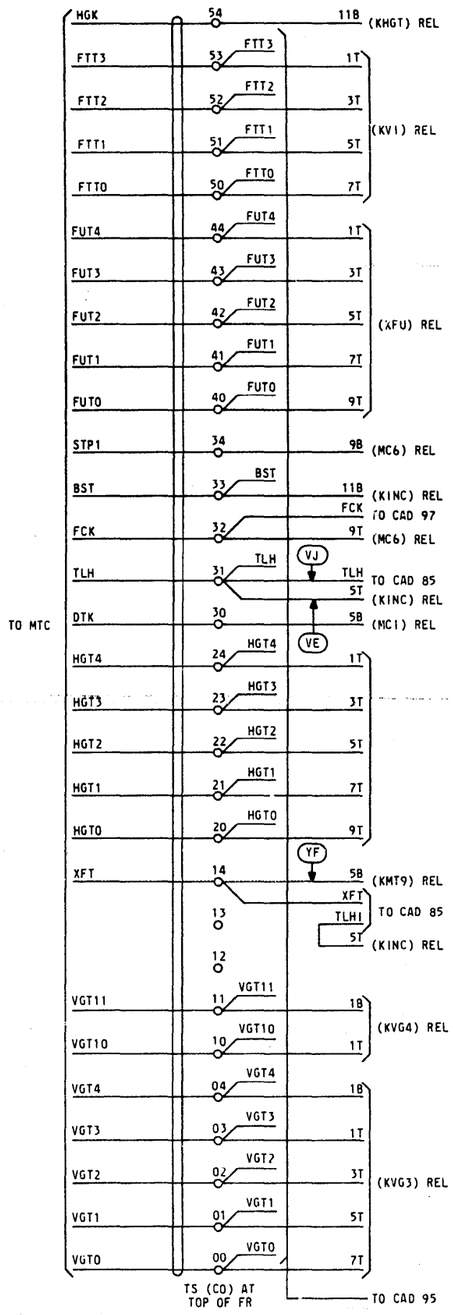
BELL TELEPHONE LABORATORIES INCORPORATED 6S

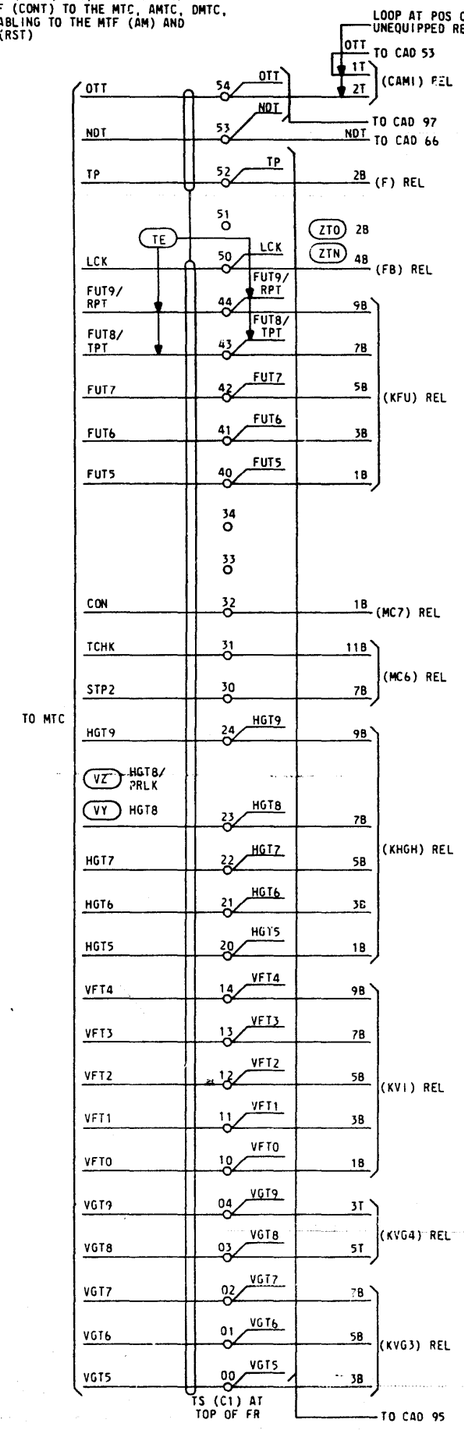
SD-25800-01-G13E

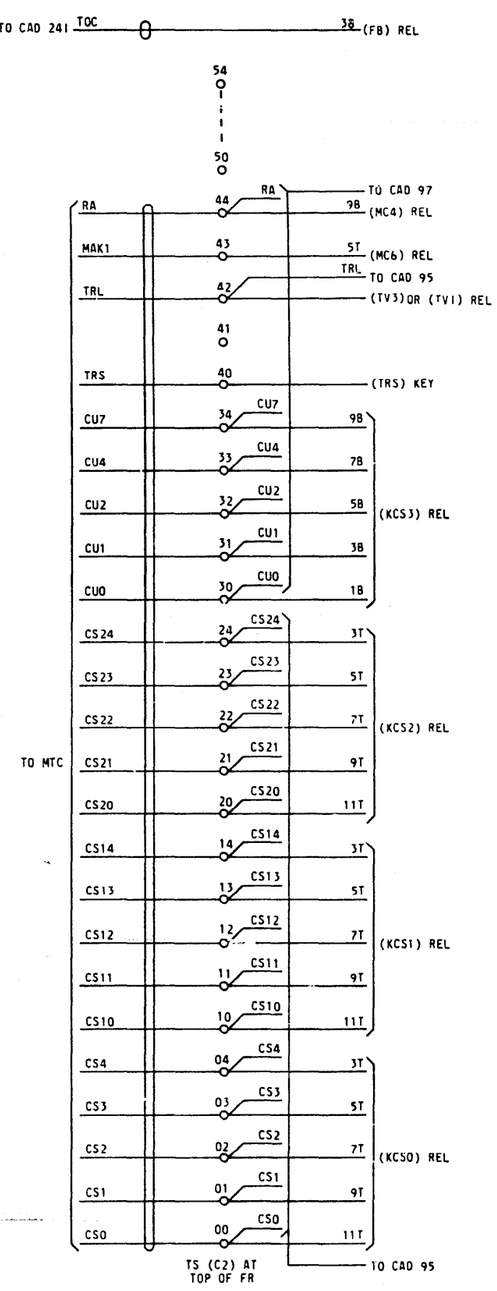
PART OF CAD 96 (MFR DISC)

(REPLACED BY CAD 124, 125, 126, 127 AND 171)
SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE MTC, AMTC, DMTC, PRTD, AND THE ASSOCIATED CABLING TO THE MTF (AM) AND MTF (RST)









DRAWING ISSUE 7D

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-613F

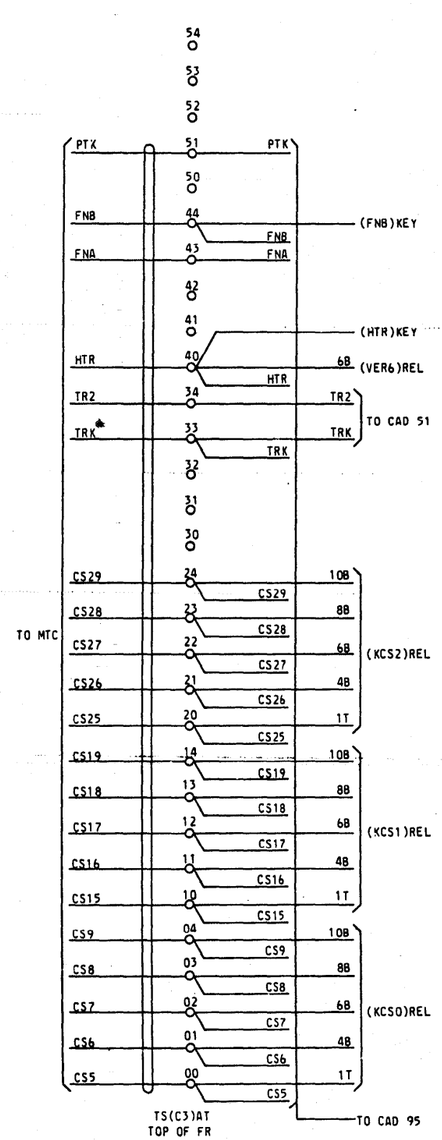
BELL TELEPHONE LABORATORIES INCORPORATED 65

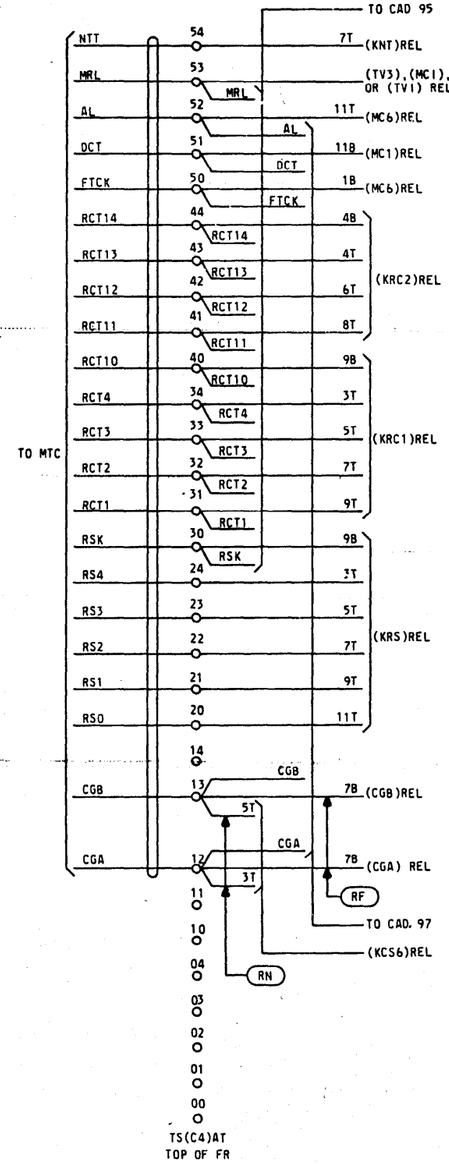
SD-25800-01-613F

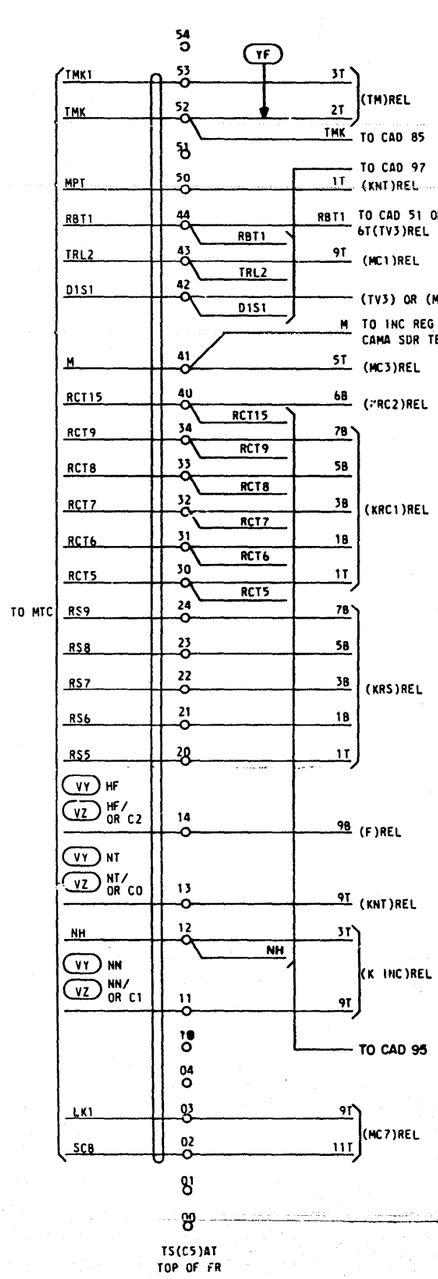
PART OF CAD 96 (MFR DISC)

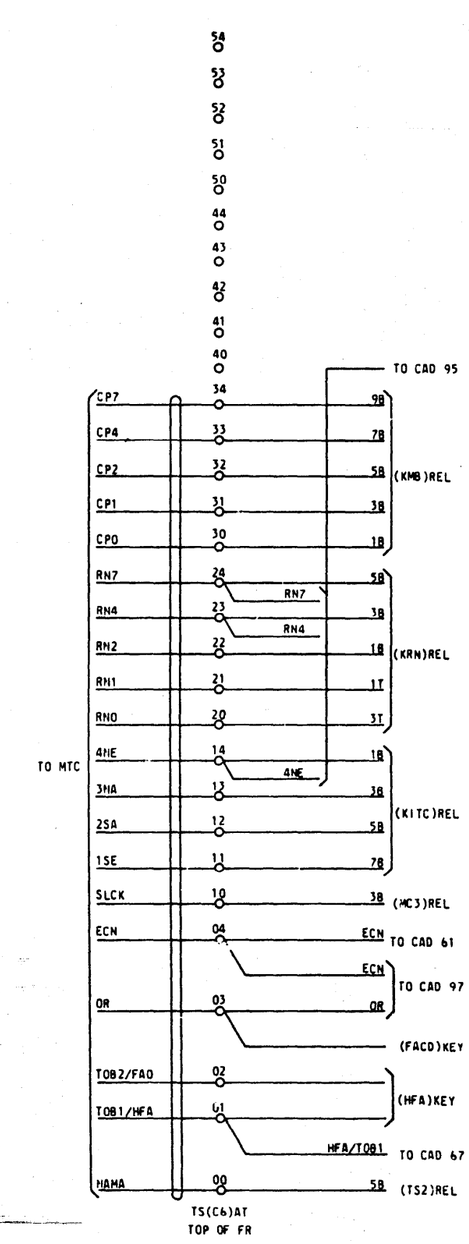
(REPLACED BY CAD 128, 129, 130, 131, AND 171)

SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE MTC, AMTC, DMTC, PRTD, AND THE ASSOCIATED CABLING TO THE MFC (AM) AND MFC (RST)









ISSUE	DRAWING ISSUE	
103A	71D	SA

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G13G

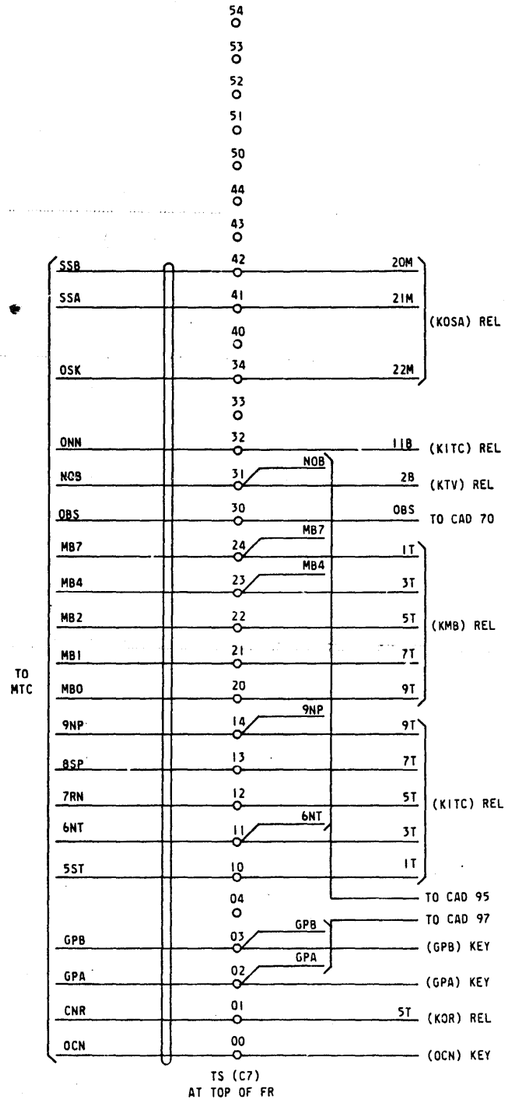
BELL TELEPHONE LABORATORIES INCORPORATED

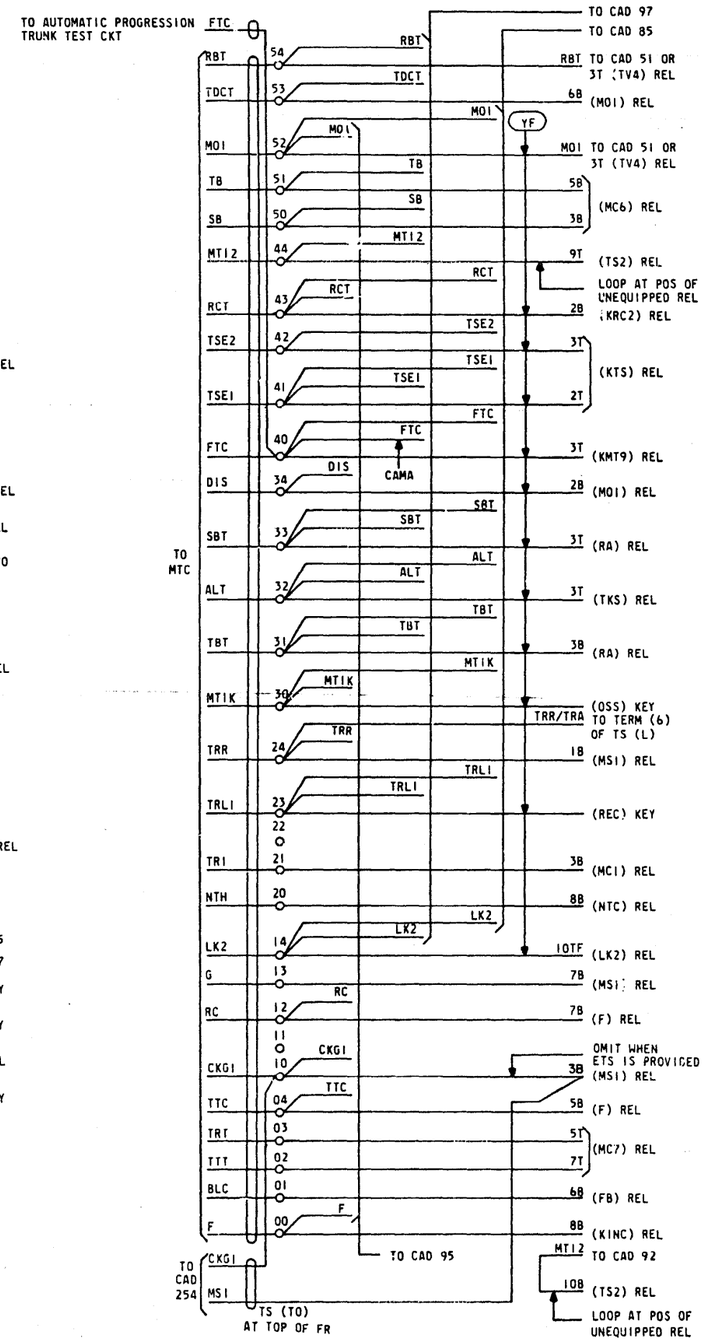
6S

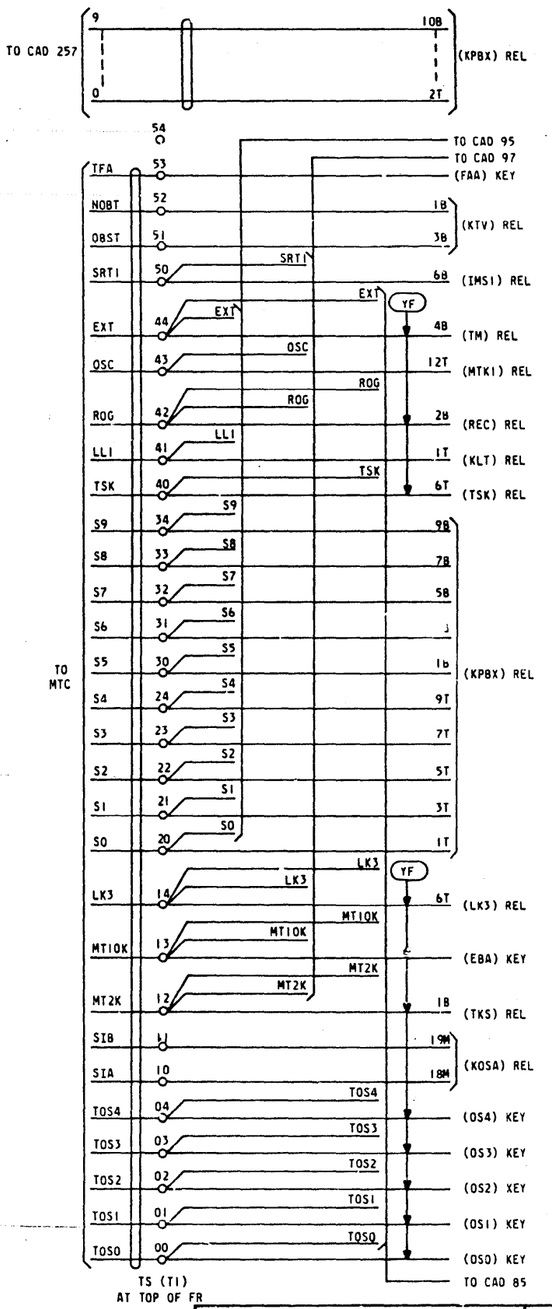
SD-25800-01-G13G

PART OF CAD 96 (MFR DISC)

(REPLACED BY CADS 132,161, AND 162)
SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE MTC,AMTC,DMTC,
PRTD, AND THE ASSOCIATED CABLING TO THE MTF (AM) AND MTF (RST)







ISSUE 105A

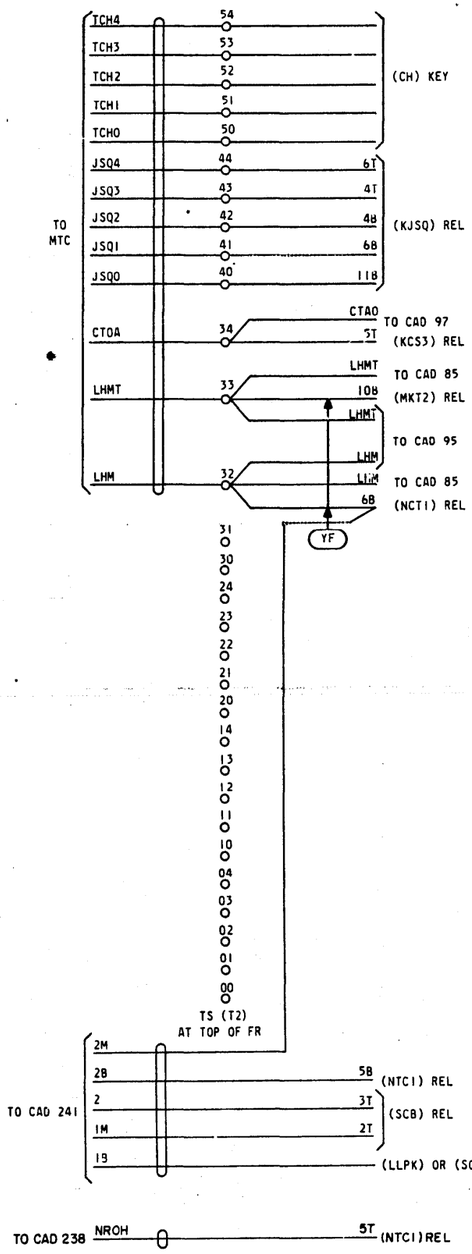
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-613H

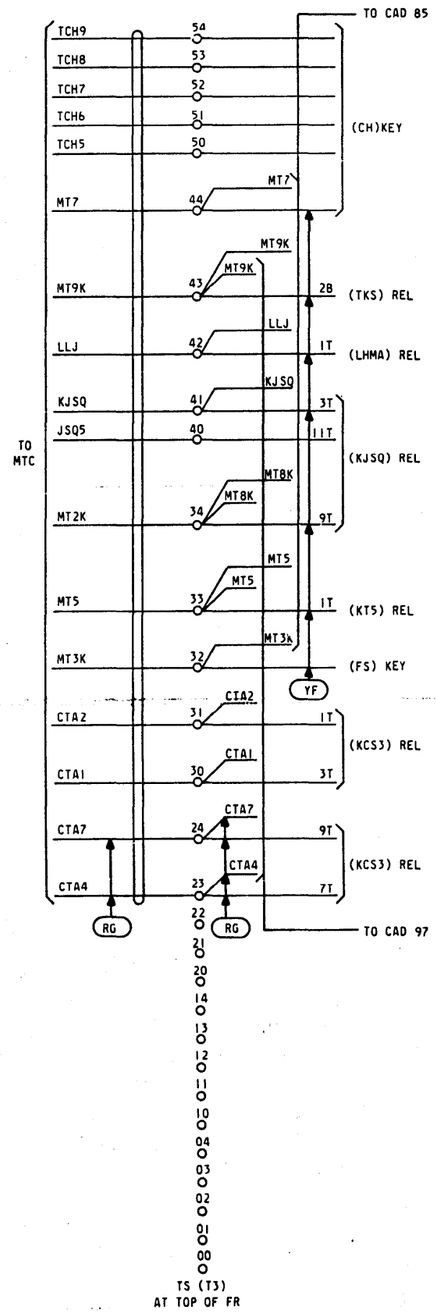
BELL TELEPHONE LABORATORIES INCORPORATED 6S

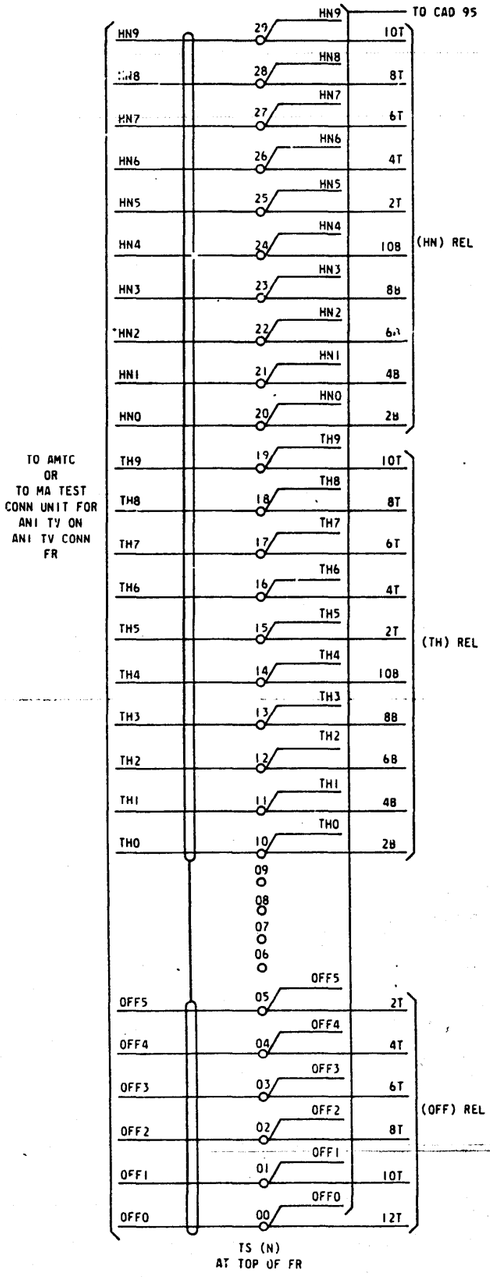
SD-25800-01-613H

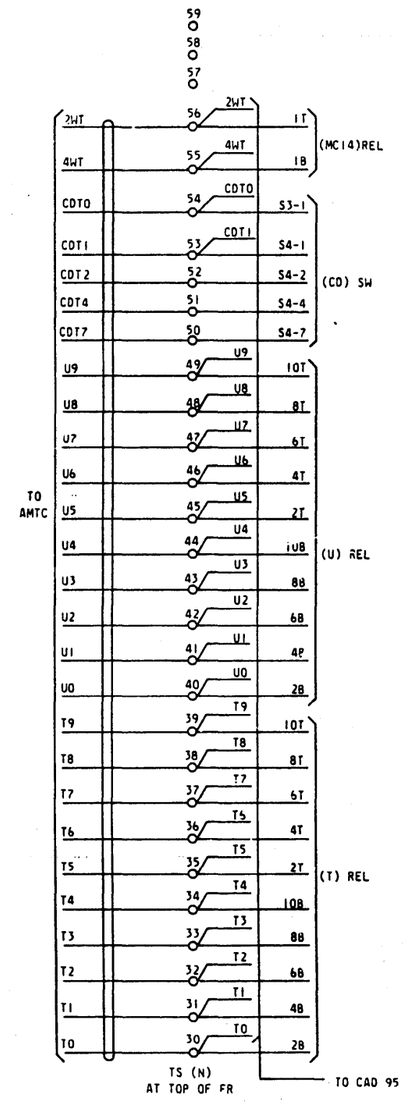
PART OF CAD 96 (MFR DISC)

(REPLACED BY CAD 159,163, AND 164)
SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE MTC, AMTC, DMTC, PRTD,
AND THE ASSOCIATED CABLING TO THE MTF (AM) AND MTF (RST).









DRAWING ISSUE
710 JAN

ISSUE
101A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G13J

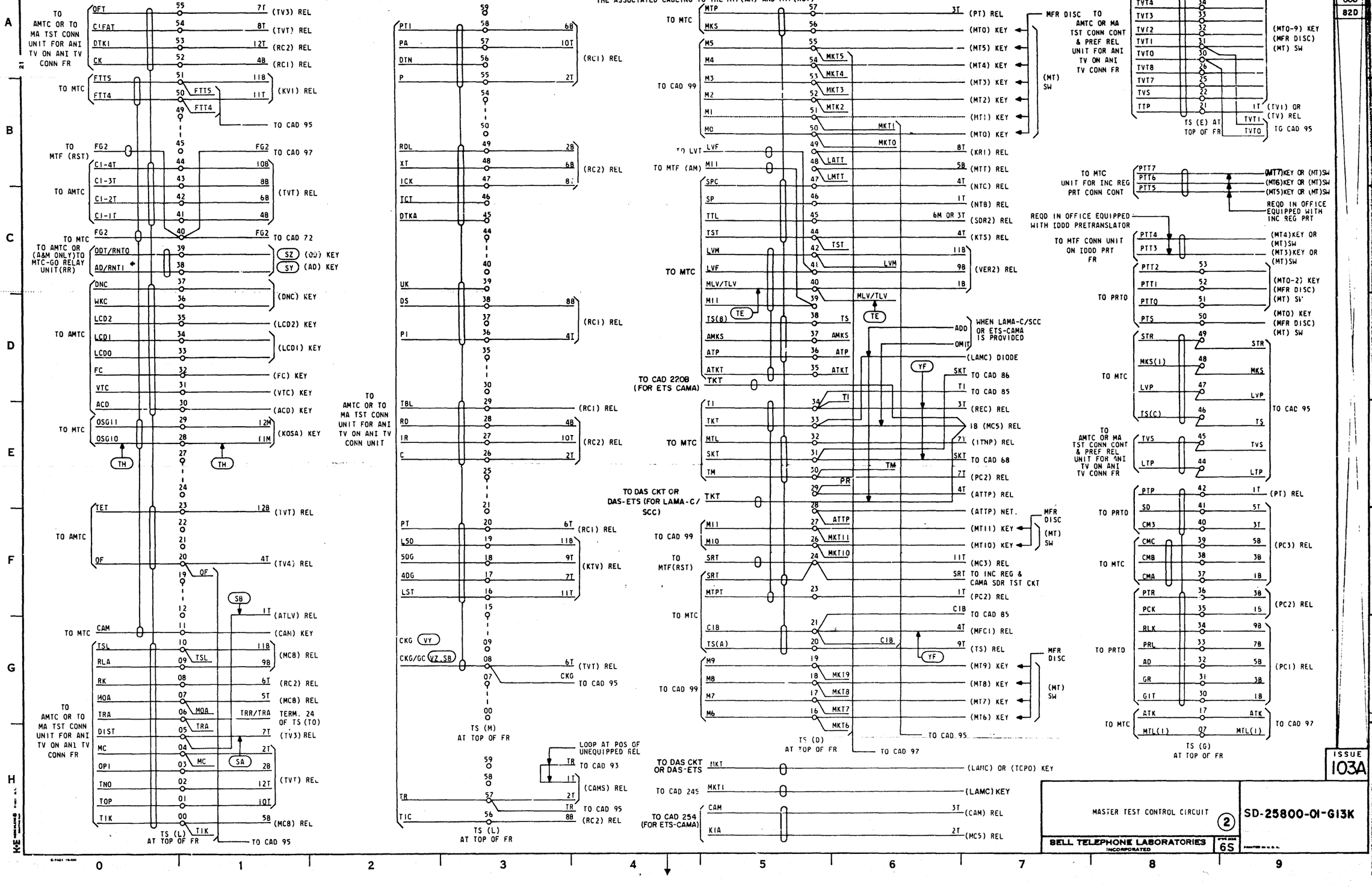
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-G13J

PART OF CAD 96 (MFR DISC)

(REPLACED BY CAD 142, 145, 147, 151, 155, AND 171)
SWITCHBOARD CABLING FROM THE MTF(CONT) TO THE MTC, AMTC, DMTC, PRTD, AND THE ASSOCIATED CABLING TO THE MTF(AM) AND MTF(RST)



ISSUE
71D
78D
80D
82D

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G13K

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-G13K

PART OF CAD 96 (MFR DISC)

(REPLACED BY CAD 150 AND 160)

SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE MTC, AMTC, DMTC, PRTD, AND THE ASSOCIATED CABLING TO THE MTF (AM) AND MTF (RST)

TO MTF(AM)

ROPT 48 — (ROP) KEY

PRLT 47 — 3B
SKI 46 — 12B
SKO 45 — 10B
(MC10) REL

TI3 44 — (TI3) KEY
TI2 43 — (TI2) KEY
TI1 42
TIO 41
TRIT 40
(TI1) KEY

(SA) (SB) (SA,SB)

OG7 34
OG4 33
OG2 32
OG1 31
OG0 30
(CNG) SW

OF7 29
OF4 28
OF2 27
OF1 26
OF0 25
(CNF) SW

TO AMTC

OE7 24
OE4 23
OE2 22
OE1 21
OE0 20
(CNE) SW

OD7 19
OD4 18
OD2 17
OD1 16
OD0 15
(CND) SW

OCA7 14
OCA4 13
OCA2 12
OCA1 11
OCA0 10
(CNC) SW

OB7 09
OB4 08
OB2 07
OB1 06
OB0 05
(CNB) SW

OA7 04
OA4 03
OA2 02
OA1 01
OA0 00
(CNA) SW

TS (K)
AT TOP OF FR

FOR CONNECTIONS SEE CAD 100

CSG2 — TO CAD 85
CSG2 — TO CAD 97
CSG1 — TO CAD 95

OBS1 36 — (OBS) KEY
TC1 35 — 7B (MC1) REL
MLF 34 — (MLF) KEY
MF 33
D 32
(MF) KEY

CSG2 31 — YF — 1B (KCS0) REL
CSG1 30 — 3B (KCS2) REL
CKG2 29 — 1B (MS1) REL
OC1 28 — 9B (MC1) REL

THGT9 27 — THGT9
THGT8 26 — THGT8
THGT7 25 — THGT7
THGT6 24 — THGT6
THGT5 23 — THGT5
THGT4 22 — THGT4
THGT3 21 — THGT3
THGT2 20 — THGT2
THGT1 19 — THGT1
THGTO 18 — THGTO
TO CAD 57 OR CAD 103

TO DMTC

TVFT4 17 — TVFT4
TVFT3 16 — TVFT3
TVFT2 15 — TVFT2
TVFT1 14 — TVFT1
TVFTO 13 — TVFTO
VGA 12 — 9T (KVG2) REL

TVGT11 11 — TVGT11
TVGT10 10 — TVGT10
TVGT9 09 — TVGT9
TVGT8 08 — TVGT8
TVGT7 07 — TVGT7
TVGT6 06 — TVGT6
TVGT5 05 — TVGT5
TVGT4 04 — TVGT4
TVGT3 03 — TVGT3
TVGT2 02 — TVGT2
TVGT1 01 — TVGT1
TVGTO 00 — TVGTO
TO CAD 57 OR CAD 103

TS (P)
AT TOP OF FR

PART OF CAD 97 (MFR DISC)

(REPLACED BY CADS 108 AND 109)

SWITCHBOARD CABLING FROM THE MTF (CONT) TO THE APTT

RBT 39 — RBT
TDCT 38 — TDCT
TB 37 — TB
SB 36 — SB
35 — MT12
TSE1 34 — TSE1
SBT 33 — SBT
TBT 32 — TBT
TRL1 31 — TRL1
LK2 30 — LK2
GPB 29 — GPB
GPA 28 — GPA
OR 27 — OR
RBT1 26 — RBT1
TRL2 25 — TRL2
DIS1 24 — DIS1
AL 23 — AL
DCT 22 — DCT
FTCK 21 — FTCK
CGB 20 — CGB
TO APTT — CGA 19 — CGA — TO CAD 96
RA 18 — RA
CU7 17 — CU7
CU4 16 — CU4
CU2 15 — CU2
CU1 14 — CU1
CU0 13 — CU0
NDT 12 — NDT
FCK 11 — FCK
LT 10 — LT
11 09 — 11
RP 08 — RP
TP 07 — TP
SCK 06 — SCK
PK 05 — PK
AMA 04 — AMA
FG2 03 — FG2
FG1 02 — FG1
MRL 01 — MRL
FGO 00 — FGO

TS (APO)
AT TOP OF FR

TF1 19 — TF1
TFO 18 — TFO
LHMT 17 — LHMT
C1B 16 — C1B
DIS 15 — DIS
CKG1 14 — CKG1
TO CAD 95

LATT 13 — LATT
LMTT 12 — LMTT
TST 11 — TST
TS 10 — TS
TO APTT — AMKS 09 — AMKS
ATP 08 — ATP
ATKT 07 — ATKT
TI 06 — TI
PR 05 — PR
ATTP 04 — ATTP
MKT11 03 — MKT11
MKT10 02 — MKT10
MKT9 01 — MKT9
MKT8 00 — MKT8
TO CAD 96

TS (API)
AT TOP OF FR

MKT1 59 — MKT1
MKTO 58 — MKTO
MTIK 57 — MTIK
TO CAD 95

MKT7 56 — MKT7
MKT6 55 — MKT6
MKT5 54 — MKT5
MKT4 53 — MKT4
MKT3 52 — MKT3
MKT2 51 — MKT2
MT12 50 — MT12
TO APTT — MT5 49 — MT5 — TO CAD 96
CTA2 48 — CTA2
CTA1 47 — CTA1
CTAO 46 — CTAO
ROG 45 — ROG
LK3 44 — LK3
MT10K 43 — MT10K
MT9K 42 — MT9K
MT8K 41 — MT8K
MT2K 40 — MT2K

TS (APO)
AT TOP OF FR

RG

CSG2 59 — CSG2 — TO CAD 96
RCT 58 — RCT
CSG1 57 — CSG1
NOB 56 — NOB
TM 55 — TM — TO CAD 95
MO1 54 — MO1
CTA7 53 — CTA7 — TO CAD 96

TRL 52 — TRL
TRK 51 — TRK
LHM 50 — LHM
BT 49 — BT
RCT1 48 — RCT1
FT3 47 — FT3
FT2 46 — FT2
FT1 45 — FT1
FTO 44 — FTO
VG10 43 — VG10
VG7 42 — VG7
VG4 41 — VG4
VG2 40 — VG2
VG1 39 — VG1
TO APTT — VGO 38 — VGO — TO CAD 95
VF4 37 — VF4
VF3 36 — VF3
VF2 35 — VF2
VF1 34 — VF1
VFO 33 — VFO
FU7 32 — FU7
FU4 31 — FU4
FU2 30 — FU2
FU1 29 — FU1
FUO 28 — FUO
HG7 27 — HG7
HG4 26 — HG4
HG2 25 — HG2
HG1 24 — HG1
HGO 23 — HGO
TF7 22 — TF7
TF4 21 — TF4
TF2 20 — TF2

TS (API)
AT TOP OF FR

DRAWING ISSUE
71D

71

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-G13L

SD-25800-01-G13L

PART OF CAD 97 (MFR DISC)

(REPLACED BY CAD 110,111,134, AND 168)
SWITCHBOARD CABLING FROM THE MTF(CONT)
TO THE APTT

TO APTT

H4	42	H4
H2	41	H2
H1	40	H1
H0	39	H0
OSC	38	OSC
OTT	37	OTT
HMS1	36	HMS1
H7	35	H7
G7	34	G7
G4	33	G4
G2	32	G2
G1	31	G1
G0	30	G0
F7	29	F7
F4	28	F4
F2	27	F2
F1	26	F1
F0	25	F0
E7	24	E7
E4	23	E4
E2	22	E2
E1	21	E1
E0	20	E0
D7	19	D7
D4	18	D4
D2	17	D2
D1	16	D1
D0	15	D0
C7	14	C7
C4	13	C4
C2	12	C2
C1	11	C1
C0	10	C0
B7	09	B7
B4	08	B4
B2	07	B2
B1	06	B1
B0	05	B0
A7	04	A7
A4	03	A4
A2	02	A2
A1	01	A1
A0	00	A0

TO CAD 96

TO CAD 95

TS (AP2)
AT TOP OF FR

TO APTT LTI 49 … 01 00 LTI TO CAD 96

TS (AP3) AT
TOP OF FR

TO APTT

RH	59	RH
ALT	58	ALT
CRU7	57	CRU7
L7	56	L7
CRU4	55	CRU4
CRU2	54	CRU2
CRU1	53	CRU1
CRU0	52	CRU0
K7	51	K7
K4	50	K4
K2	49	K2
K1	48	K1
K0	47	K0
J7	46	J7
J4	45	J4
J2	44	J2
J1	43	J1
J0	42	J0

TO CAD 96

TS (AP2)
AT TOP OF FR

TO CAPTT

T		T — TO CAD 91
R		R
APTT		APTT
OTT		OTT
CAM		CAM
TST		TST — TO CAD 53
TVC		TVC
TBL		TBL — TO CAD 92
CMG		CMG
CMT		CMT
RS		RS
TTA		TTA — TO CAD 51
DISC		DISC
MFC		MFC
PSI		PSI — TO CAD 52
PRI		PRI — TO CAD 86
FTC	24	FTC — TO CAD 59 OR CAD 96
MTL(1)	22	MTL(1)
ATK	21	ATK — TO CAD 75 OR CAD 96
TCB	20	TCB — TO CAD 56 OR CAD 96
ECN	19	ECN — TO CAD 62 OR CAD 96
F	18	F — TO CAD 63 OR CAD 95
INC	17	INC — TO CAD 61 OR CAD 95
PCR	16	PCR — TO CAD 92
TSKI	15	TSKI — TO CAD 91
UT7	14	UT7
UT4	13	UT4
UT2	12	UT2
UT1	11	UT1
UTO	10	UTO
TT7	9	TT7
TT4	8	TT4
TT2	7	TT2 — TO CAD 76 OR CAD 104
TT1	6	TT1
TTO	5	TTO
HT7	4	HT7
HT4	3	HT4
HT2	2	HT2
HT1	1	HT1
HTO	0	HTO

TS (C-APTT)
AT TOP OF FR

CAD 98 (MFR DISC)

(REPLACED BY CAD 152 AND 169)
SWITCHBOARD CABLING FROM THE
MTF(CONT) TO THE LIT

TO APTT

RG		
CTA4	59	CTA4 — TO CAD 96
SRT1	58	SRT1 — TO CAD 77 OR CAD 96
MTS		MTS — TO CAD 59 OR CAD 90
MT3		MT3
OTS1		OTS1
OTSO		OTSO
ETS1		ETS1
ETSO		ETSO — TO CAD 85
CGB		CGB
CGA		CGA
LK		LK
TT19		TT19 — TO CAD 59
TTO		TTO
TU9		TU9
TUO		TUO
PO		PO
PS2		PS2
SGA		SGA
SGB		SGB
KPT		KPT
KPR		KPR
L		L — TO CAD 91
CI		CI
ON		ON
PSA		PSA
SGA(1)		SGA(1)
PSB		PSB
SGB(1)		SGB(1)
TVK		TVK
TTK		TTK

TO CAPTT

TS (C-APTT)
AT TOP OF FR

TO LIT

59		
46		
FTT5	45	FTT5
FTTO	40	FTTO
VGT11	39	VGT11
VGTO	28	VGTO
VFT4	27	VFT4
VFTO	23	VFTO
FUT9/RPT	22	FUT9/RPT — TO CAD 95
FUT8/TPT	21	FUT8/TPT
FUT7	20	FUT7
FUTO	13	FUTO
HGT9	12	HGT9
HGTO	03	HGTO
FS2	02	FS2
FSO	00	FSO — TO CAD 96

TS (LIT) AT
TOP OF FR

TO LIT

JC7		JC7
JCO		JCO
H		H — TO CAD 64
S		S
R		R
T		T

CAD 99 (MFR DISC)

(FOR APP FIG 21)
(REPLACES CAD 80, REPLACED BY
CAD 170)

TO MTC: MKT7(C), MKTO(C)
TO DMTC: MKT3(D), MKTO(D)
TO CAD 96

THESE LEADS SHALL BE CONN TO MO TO M11 LEADS OF CADS 96 IN ACCORDANCE WITH THE (M-) DESIGNATIONS OF THE MARKERS WITH WHICH THEY ARE ASSOCIATED VIA THE MASTER TEST CONN FRAMES (CONN ONLY LEADS ASSOCIATED WITH EXISTING MARKERS.)

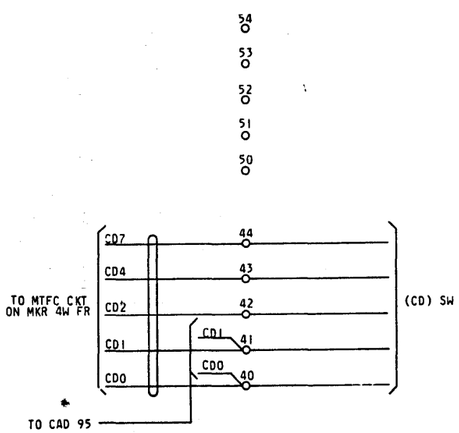
DRAWING ISSUE	
71D	SAV

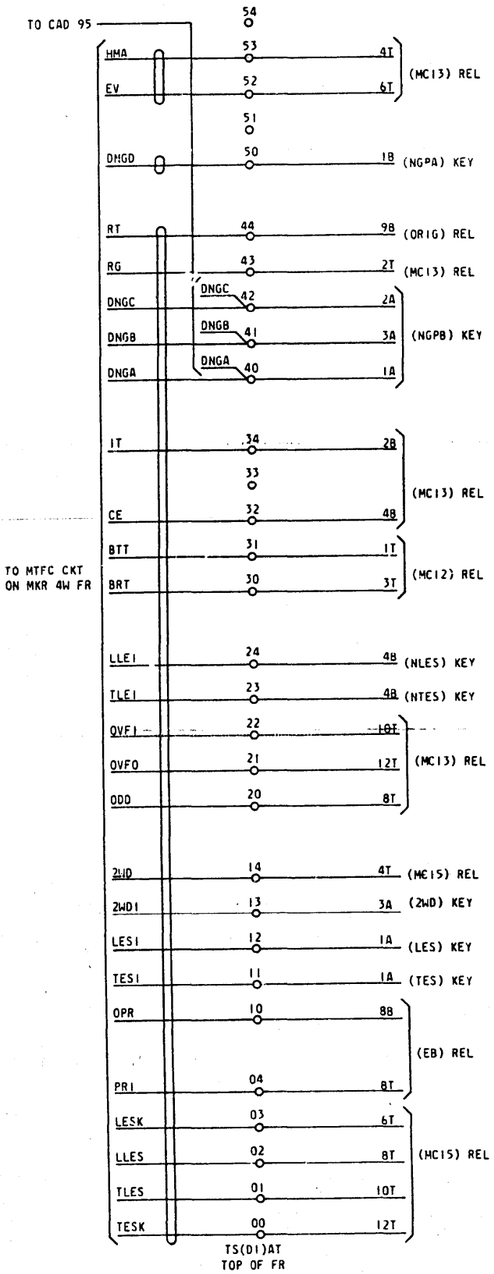
71

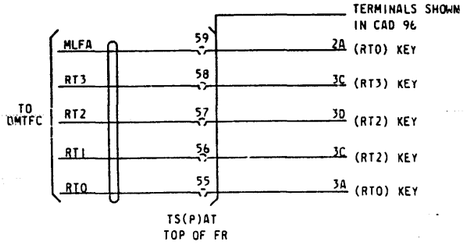
MASTER TEST CONTROL CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
SD-25800-01-G13M

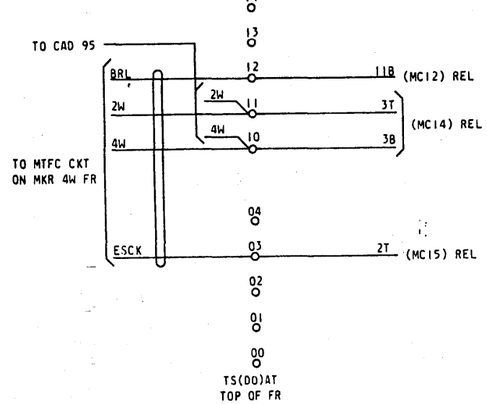
CAD 100 (MFR DISC)

(FOR APP FIG 49, 50 AND 51)
(REPLACED BY CAD 143 AND 144)









DRAWING ISSUE

71D	DLB

71

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-613N

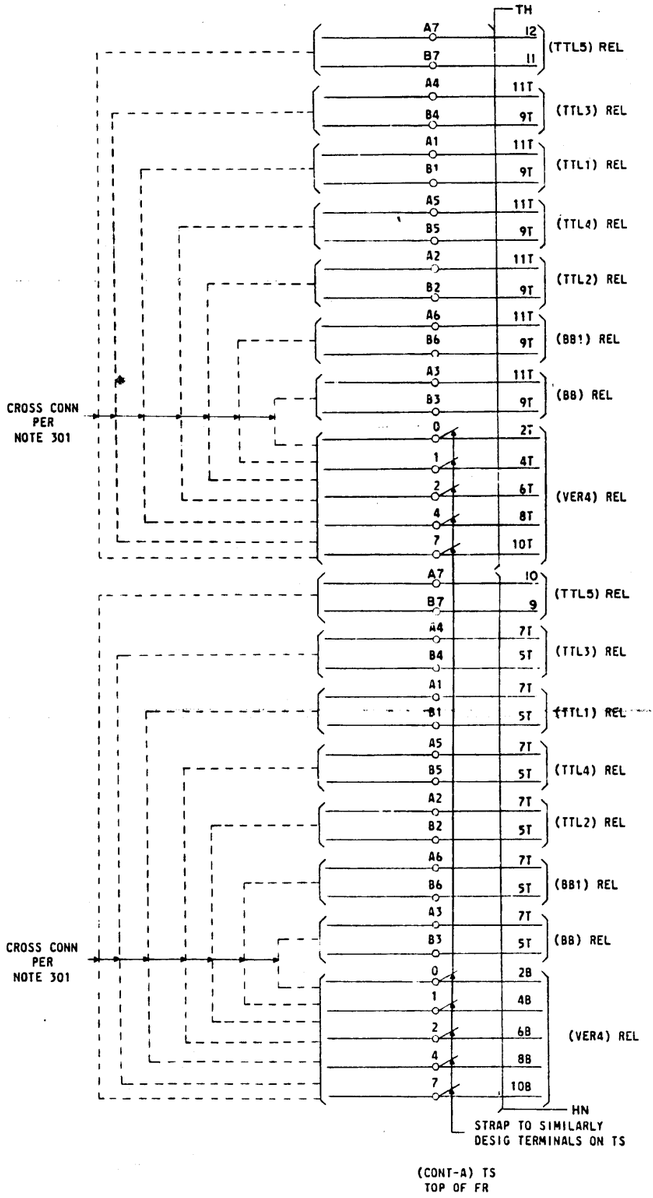
BELL TELEPHONE LABORATORIES INCORPORATED

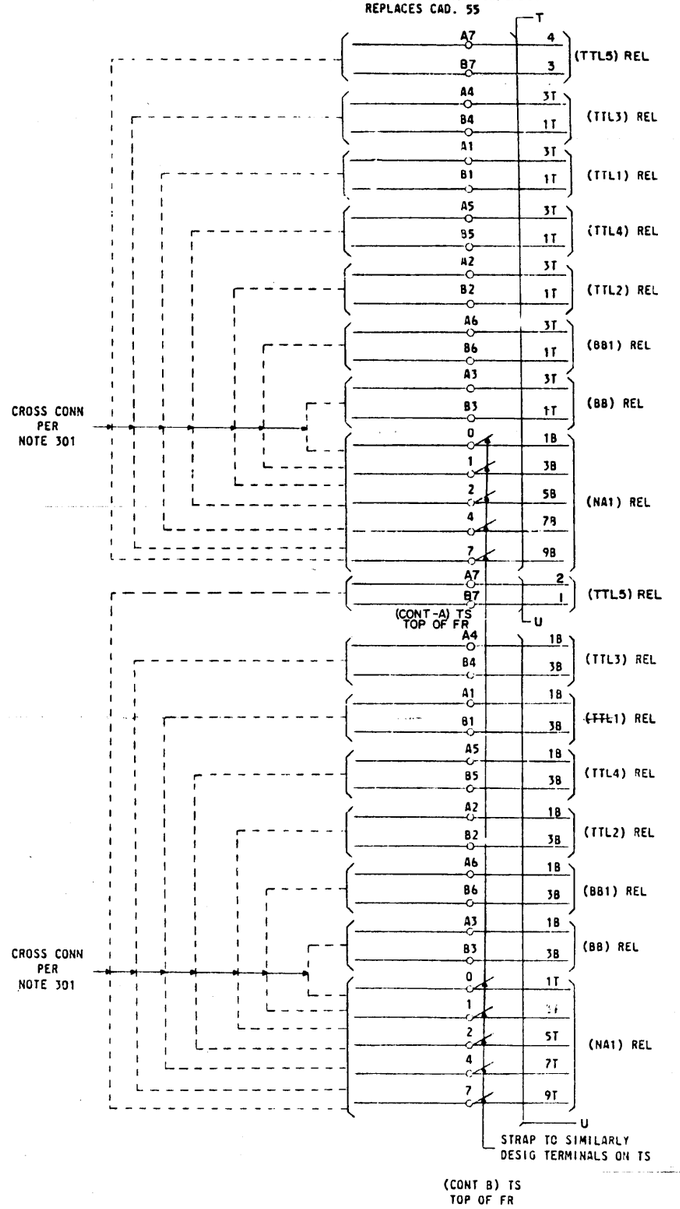
6S

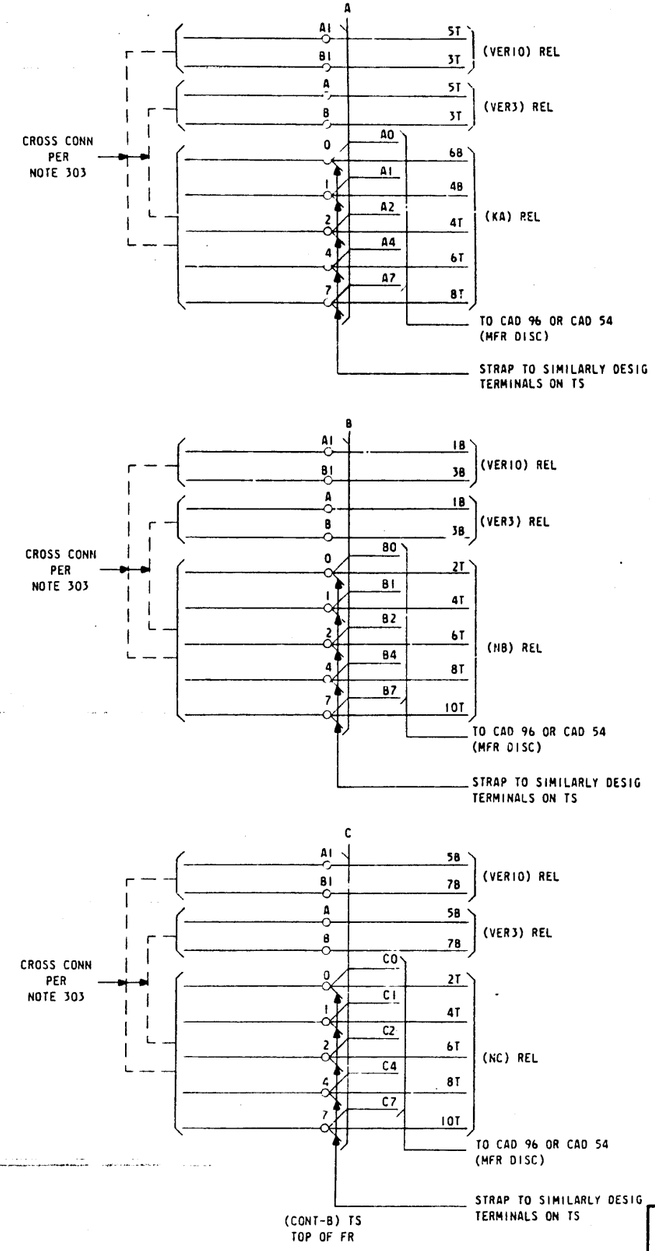
SD-25800-01-613N

CAD. 101 (MFR DISC.)

(FOR APP FIGURES 4,5, 49, & 55)
REPLACES CAD. 55







DRAWING ISSUE	
51D	GAD LW AG2
71D	RJF

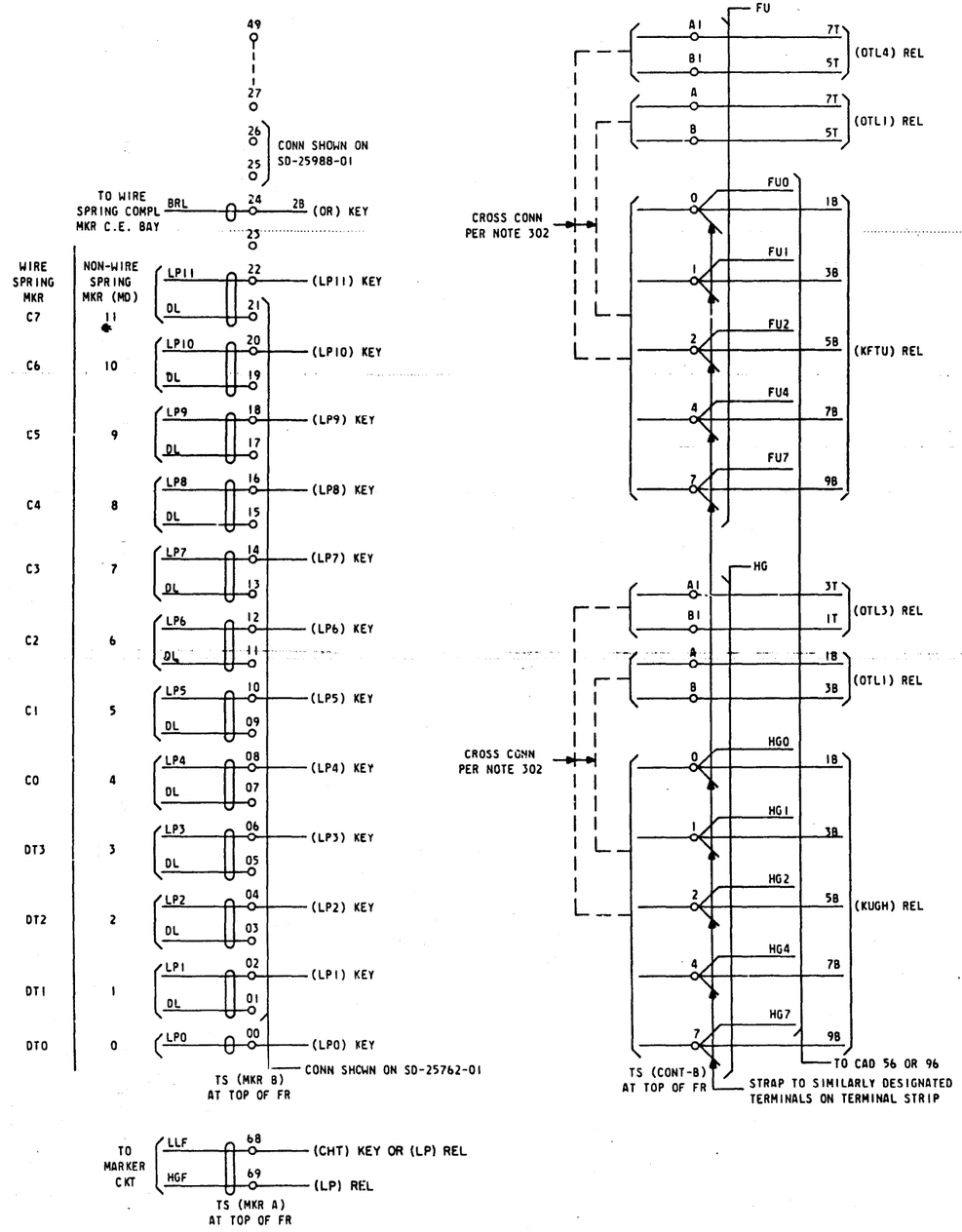
71

MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-G14A
BELL TELEPHONE LABORATORIES INCORPORATED	DATE ISSUED 65

SD-25800-01-G14A

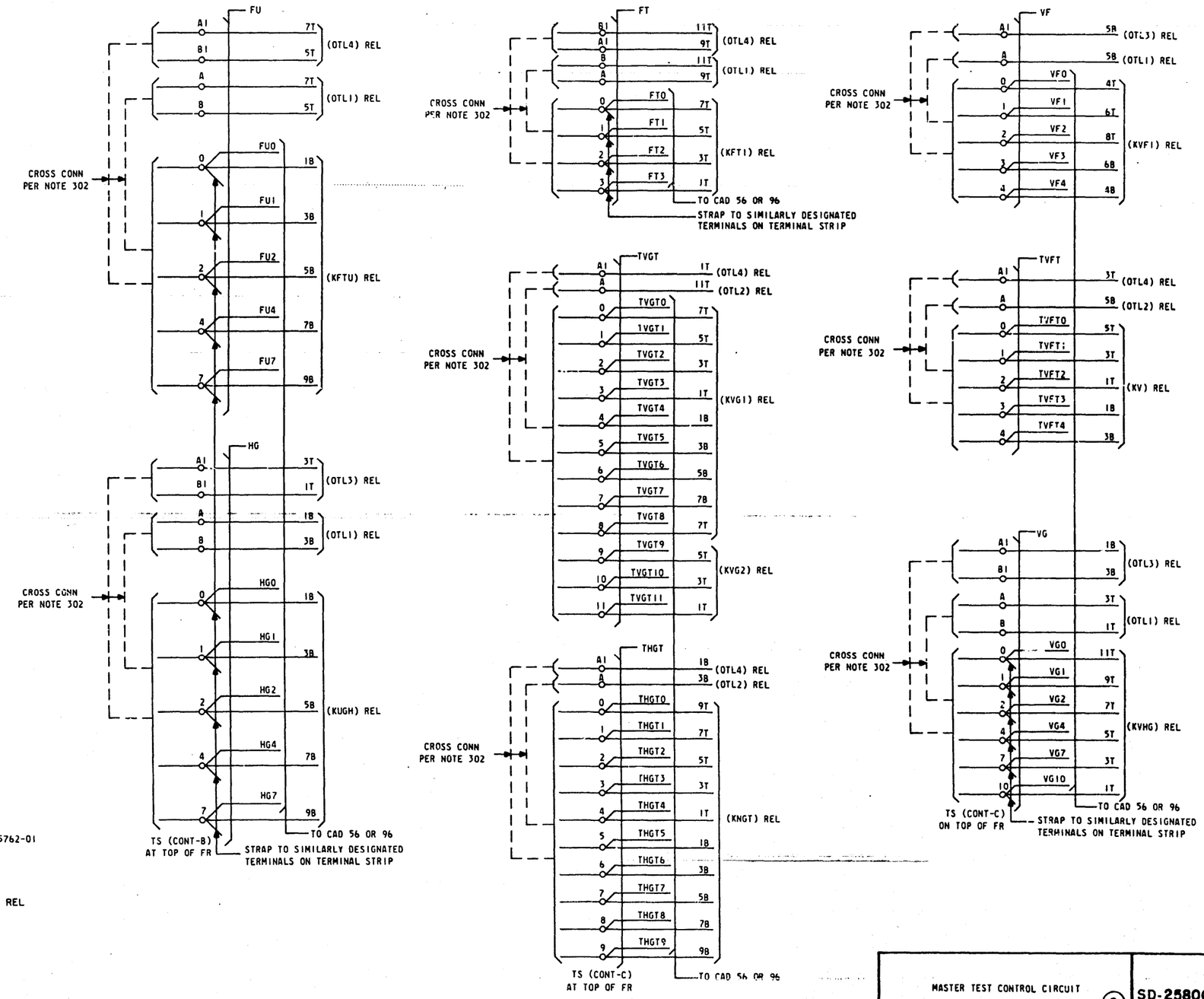
CAD 102 (MFR DISC)

(REPLACES CAD 84)
(REPLACED BY CAD 156 AND 157)
(FOR APP FIG 33 AND 34)



CAD 103 (MFR DISC)

(REPLACES CAD 57)
(REPLACED BY CAD 136 AND 137)
(FOR APP FIG 6 AND 49)



DRAWING ISSUE 710 BKZ

ISSUE 95A

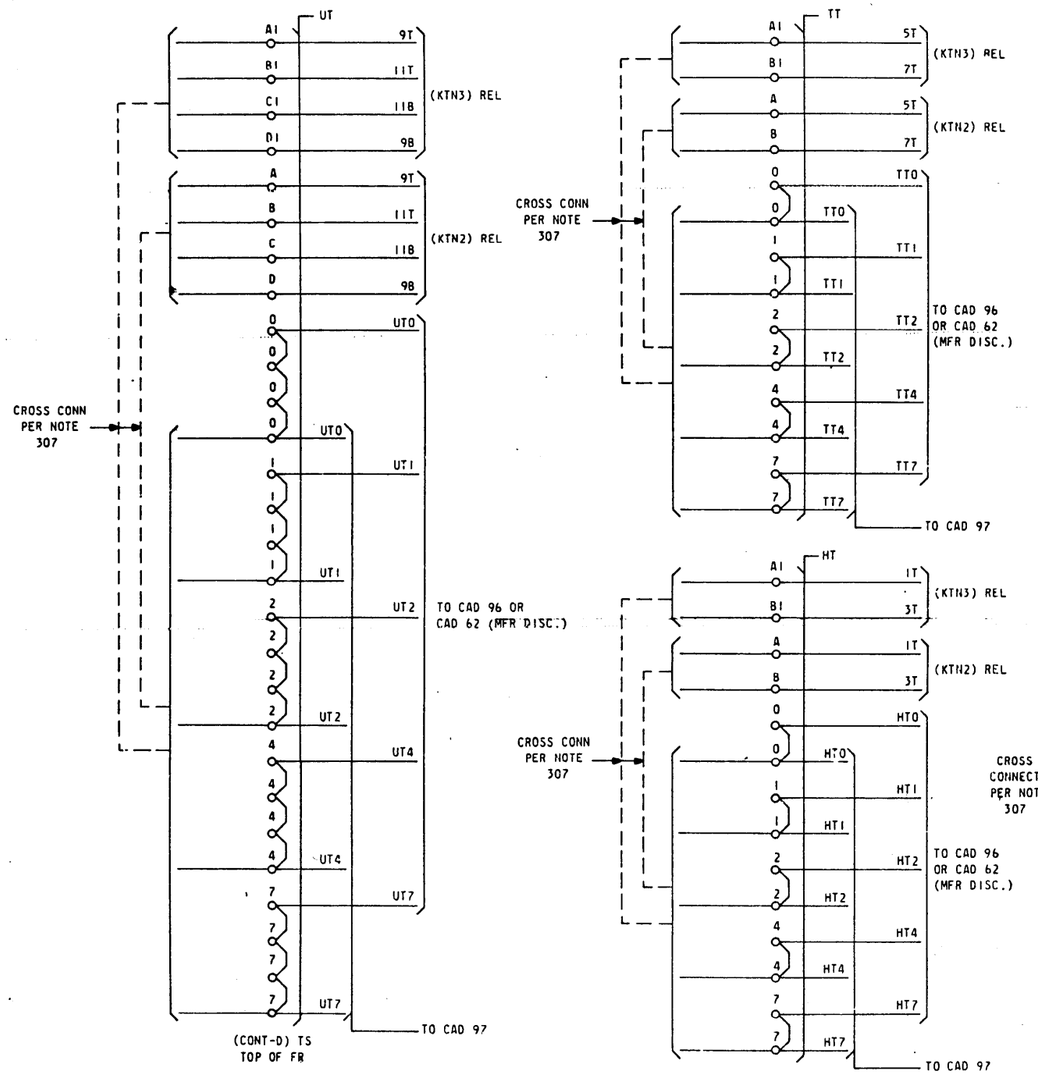
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-614B

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-614B

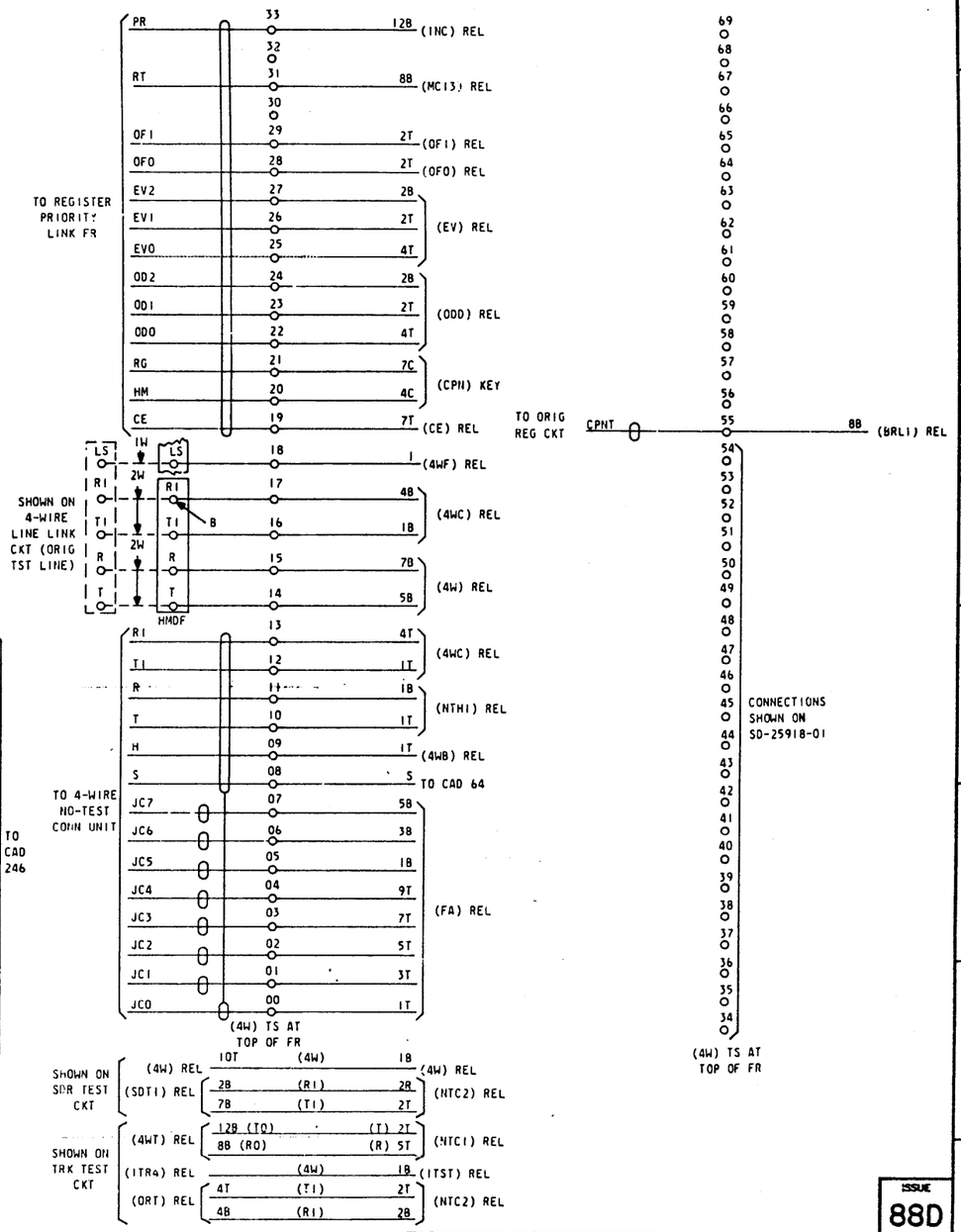
CAD 104 (MFR DISC.)

(FOR APP FIGURES 11,12, AND 49)
(REPLACES CAD 76)



CAD 105 (MFR DISC.)

(FOR APP FIGURES 49 AND 51)
(REPLACED BY CAD 106)



ISSUE 88D

MASTER TEST CONTROL CIRCUIT

SD-25800-01-G14C

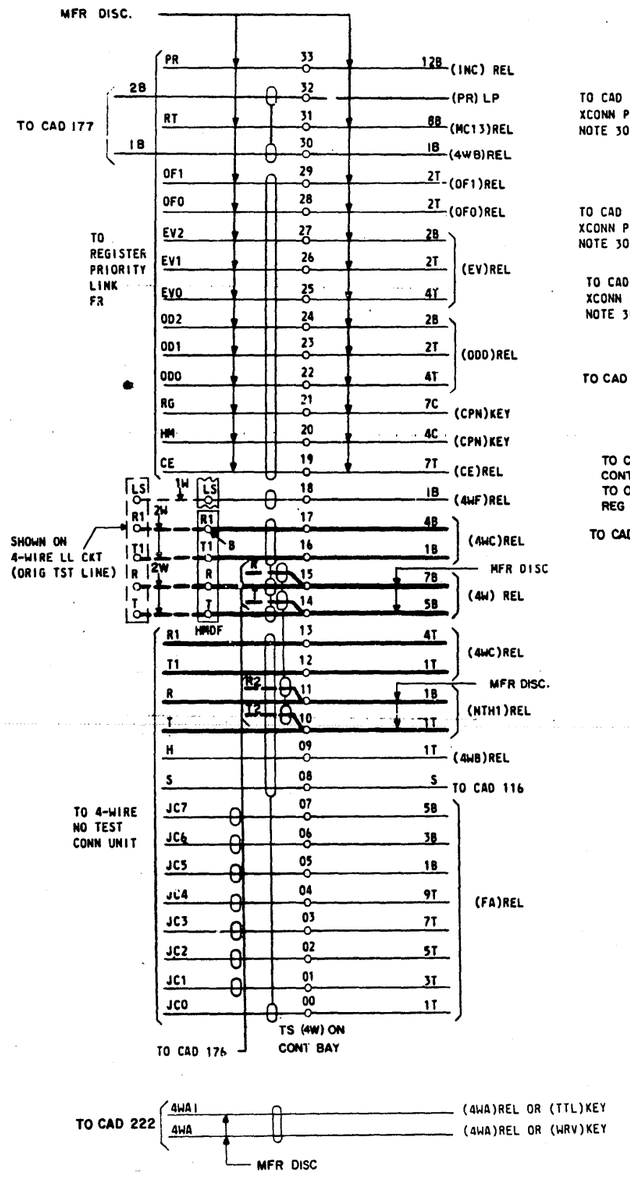
BELL TELEPHONE LABORATORIES INCORPORATED

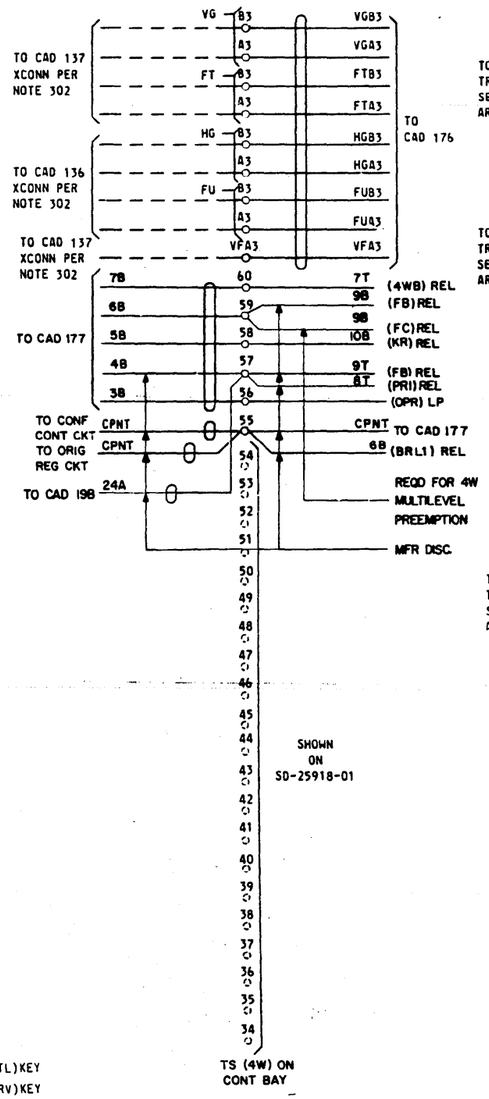
6S

SD-25800-01-G14C

CAD 106

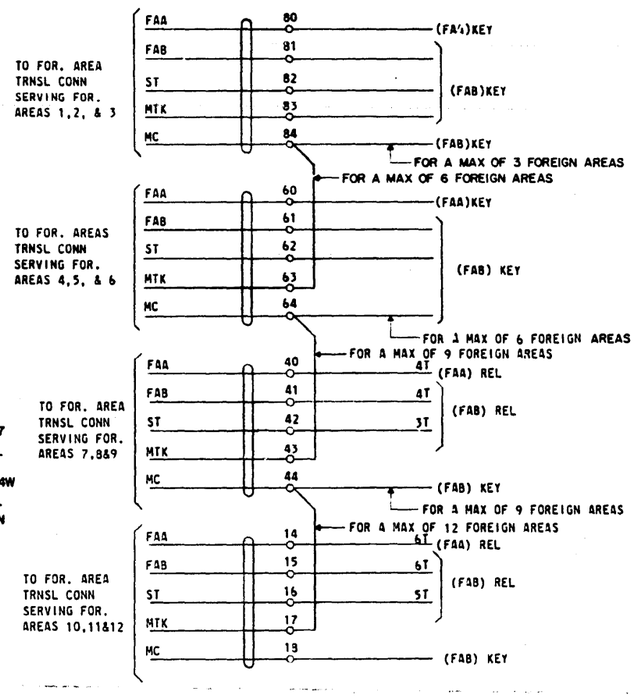
(FOR APP FIGURES 2,49, AND 51)
(SEE NOTE 1)

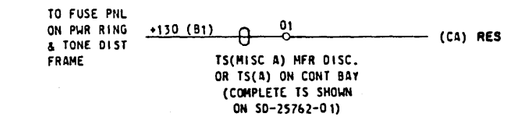




CAD 107

(FOR APP FIGURES 15 AND 30)





NOTES:
1. IN 2-WIRE OFFICE ARRANGED FOR WIDEBAND SWITCHING (SPECIAL), DISCONNECT THE LOCAL CABLE ON (4W) TS IN CAD 106 AND CONNECT PER CAD 206.

DRAWING ISSUE
51D
56D
57A
61A
63D
71D
78D
83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G15

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G15

STABILO

CAD 108

SWBD CABLING FROM THE MTF CONT TO APTT

TO CAD 184

GPB	29	GPB	TO CAD 132
GPA	28	GPA	
OR	27	OR	TO CAD 131
RBT1	26	RBT1	TO CAD 130
TRL2	25	TRL2	
DIS1	24	DIS1	
AL	23	AL	TO CAD 129
DCT	22	DCT	
FTCK	21	FTCK	
CGB	20	CGB	
CGA	19	CGA	
RA	18	RA	TO CAD 127
CU7	17	CU7	
CU4	16	CU4	
CU2	15	CU2	
CU1	14	CU1	
CU0	13	CU0	TO CAD 256
NDT	12	NDT	TO CAD 126
FCK	11	FCK	TO CAD 125
LT	10	LT	TO CAD 124
11	09	11	
RP	08	RP	
TP	07	TP	
SCK	06	SCK	
PK	05	PK	TO CAD 122
AMA	04	AMA	TO CAD 119
FG2	03	FG2	TO CAD 151
FG1	02	FG1	TO CAD 118
MRL	01	MRL	TO CAD 149
FGO	00	FGO	TO CAD 154

TO APTT

TS (APO) ON CONTROL BAY

TO TRK TEST REG FR SCK

CONN TO ASSOC COMPL MKR AS REQD

(MFR DISC.)

MKT1	59	MKT1	TO CAD 149
MKTO	58	MKTO	
MTIK	57	MTIK	
MKT-	56	MKT7	TO CAD 142
MKT-	55	MKT6	
MKT-	54	MKT5	
MKT-	53	MKT4	
MKT-	52	MKT3	
MKT-	51	MKT2	
MT12	50	MT12	TO CAD 161
MT5	49	MT5	TO CAD 164
CTA2	48	CTA2	
CTA1	47	CTA1	
CTAO	46	CTAO	TO CAD 163
ROG	45	ROG	TO CAD 162
LK3	44	LK3	
MT10K	43	MT10K	
MT9K	42	MT9K	TO CAD 164
MT8K	41	MT8K	
MT2K	40	MT2K	TO CAD 162
RBT	39	RBT	TO CAD 161
TDCT	38	TDCT	
TB	37	TB	
SB	36	SB	
MT7K	35	MT7K	TO CAD 113 (MFR DISC.) OR CAD 247
TSE1	34	TSE1	TO CAD 161
SBT	33	SBT	
TBT	32	TBT	
TRL1	31	TRL1	
MT7K			
LK2	30	LK2	

TO APTT

TS (APO) ON CONTROL BAY

TO MTC MT7K

TO LINE VERIFICATION TST CKT MTIK

TO TRK TST REG CKT MTIK

CAD 109

SWBD CABLING FROM THE MTF CONT TO THE APTT

TO CAD 184 CTA7

FU1	29	FU1	TO CAD 153
FUO	28	FUO	
HG7	27	HG7	
HG4	26	HG4	
HG2	25	HG2	
HG1	24	HG1	
HGO	23	HGO	
TF7	22	TF7	TO CAD 154
TF4	21	TF4	
TF2	20	TF2	
TF1	19	TF1	
TFO	18	TFO	
LHMT	17	LHMT	
CIB	16	CIB	
DIS	15	DIS	
CKG1	14	CKG1	
LATT	13	LATT	
LMTT	12	LMTT	
TST	11	TST	
TS	10	TS	
AMKS	09	AMKS	
ATP	08	ATP	
ATKT	07	ATKT	
T1	06	T1	TO CAD 142
PR	05	PR	TO APTT OR ROTL
ATTP	04	ATTP	
MKT-	03	MKT11	TO APTT
MKT-	02	MKT10	
MKT-	01	MKT9	
MKT-	00	MKT8	

TO APTT

TS (API) ON CONTROL BAY

CONN TO ASSOC COMPL MKR AS REQD

(MFR DISC.)

A&M ONLY

CSG2	59	CSG2	TO CAD 160
RCT	58	RCT	TO CAD 153
CSG1	57	CSG1	
NOB	56	NOB	TO CAD 154
TM	55	TM	TO CAD 149
MO1	54	MO1	
CTA7	53	CTA7	CLASS OF SERV ON CLASS UNITS AND TENS BASIS TO CAD 164
TRL	52	TRL	TO CAD 149
TRK	51	TRK	
LHM	50	LHM	TO CAD 154
BT	49	BT	TO CAD 149
RCT1	48	RCT1	TO APTT
FT3	47	FT3	
FT2	46	FT2	
FT1	45	FT1	
FTO	44	FTO	
VG10	43	VG10	
VG7	42	VG7	
VG4	41	VG4	
VG2	40	VG2	
VG1	39	VG1	TO CAD 153
VGO	38	VGO	
VF4	37	VF4	
VF3	36	VF3	
VF2	35	VF2	
VF1	34	VF1	
VFO	33	VFO	
FU7	32	FU7	
FU4	31	FU4	
FU2	30	FU2	

TS (API) ON CONTROL BAY

DRAWING ISSUE

51D	QA LV
56D	
67A	
67C	
730	
76D	
80D	
81A	
82D	

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G16

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

STABILO

SD-25800-01-G16

CAD 110

CLASS OF SERVICE ON CLASS UNITS AND CLASS TENS BASIS WITH 1 TO 20 RATE TREATMENTS

F7	29	F7	
F4	28	F4	
F2	27	F2	TO CAD 122
F1	26	F1	
F0	25	F0	
E7	24	E7	
E4	23	E4	
E2	22	E2	TO CAD 121
E1	21	E1	
E0	20	E0	
D7	19	D7	
D4	18	D4	
D2	17	D2	
D1	16	D1	
D0	15	D0	
TO APTT C7	14	C7	
C4	13	C4	
C2	12	C2	
C1	11	C1	
C0	10	C0	TO CAD 154
B7	09	B7	
B4	08	B4	
B2	07	B2	
B1	06	B1	
B0	05	B0	
A7	04	A7	
A4	03	A4	
A2	02	A2	
A1	01	A1	
A0	00	A0	

TS(AP2)
ON CONTROL BAY

ALT	59	ALT	TO CAD 161
CRU7	58	CRU7	TO CAD 120
L7	57	L7	TO CAD 121
CRU4	56	CRU4	
CRU2	55	CRU2	
CRU1	54	CRU1	TO CAD 120
CRU0	53	CRU0	
K7	52	K7	
K4	51	K4	
K2	50	K2	TO CAD 122
K1	49	K1	
K0	48	K0	
J7	47	J7	
J4	46	J4	
J2	45	J2	TO CAD 121
J1	44	J1	
TO APTT J0	43	J0	
H4	42	H4	
H2	41	H2	
H1	40	H1	TO CAD 122
H0	39	H0	
OSC	38	OSC	TO CAD 162
OTT	37	OTT	TO CAD 126
HMS1	36	HMS1	TO CAD 118
H7	35	H7	TO CAD 122
G7	34	G7	
G4	33	G4	
G2	32	G2	TO CAD 121
G1	31	G1	
G0	30	G0	

TS(AP2)
ON CONTROL BAY

CAD 111

	24		
	23		
	22		
	21		
	20		
	19		
	18		
FOR CONN TO THESE TERMINALS SEE CAD 135	17		
	16		
	15		
	14		
	13		
	12		
	11		
	10		
THT3	09	THT3	TO CAD 163
THT2	08	THT2	
	07		
	06		
	05		
TO APTT 20T	04	20T	TO CAD 120
FVD	03	FVD	TO CAD 124
THT1	02	THT1	
THTO	01	THTO	TO CAD 123
LT1	00	LT1	

TS(AP3)
ON CONTROL BAY

	49	
	48	
	47	
	46	
	45	
	44	
	43	
	42	
	41	
	40	
	39	
	38	
	37	
	36	
	35	
	34	
FOR CONN TO THESE TERMINALS SEE CAD 135	33	
	32	
	31	
	30	
	29	
	28	
	27	
	26	
	25	

TS(AP3)
ON CONTROL BAY

DRAWING ISSUE

51D	FRMC LW AMD
53D	LAN SYN/ INIT
56D	DAT CPM/ ABO
59A	JCR/ TIM/ ALM
67D	SLR
69D	LFP
71D	RJF
74A	
76D	
80D	
81A	

ISSUE 88D

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-G17

6S

STABILO

210-10-00858-08

CAD 112

(FOR APP FIG 1,2,3,4,7,11,17,20,60,67,74,76,86,87,120,171,B,F,H,N)

LC OR SWBD CA — KORI — WHEN WIDE-BAND IS PROVIDED — OMIT / ADD — 8B (KOR) REL
TO CAD 221 — KOR — 7B (KOR) REL
MFR DISC — KOR — TO CAD 250
TO CAD 210 — PRL / PRLI / PRLU — 8T / 4T / 10TF (PRL) REL
TO TRK TEST FR — TAN — LC — 7B
TO CAD 222 — KT2 / KTI — 10B (TKT3) REL
TO AMRST CKT (AUX CONT BAY) — TOL

LK	30	(L) KEYS SW
KK	29	(K) KEYS SW
JK	28	(J) KEYS SW
HK	27	(H) KEYS SW
GK	26	(G) KEYS SW
FK	25	(F) KEYS SW
EK	24	(E) KEYS SW
DK	23	1T
CK	22	3T
BK	21	5T
AK	20	1B (LV8) REL
TAN4	19	MFR DISC
TAN3	18	
TAN2	17	(CST) KEY
TAN1	16	

EK — BK

TO MASTER TEST FRAME REGISTER AND SENDER TEST BAY

(TCBT) REL A & M ONLY OR (ICL) SW

A & M ONLY

T7	15	3B (7DG) KEY
NTAN		(IC) KEY MFR DISC OR (IC) SW
NTS	14	MF, DISC OR (ICL) SW
		HC) KEY
AC	13	MFR DISC.
OK	12	(ROT) KEY
REC	11	(SDR) REL
L	10	(L) KEYS SW
K	09	(K) KEYS SW
J	08	(J) KEYS SW
H	07	(H) KEYS SW
G	06	(G) KEYS SW
F	05	(F) KEYS SW
E	04	(E) KEYS SW
D	03	(D) KEYS SW
C	02	(C) KEYS SW
B	01	(B) KEYS SW
A	00	(A) KEYS SW

TS (AUTO MON A) ON CONTROL BAY

TO CAD 222 — TTL2 / LV / TTL7 / WB — 13T / 3B / 5B / 1B (TTL2) REL (IV) REL (TTL2) REL (TSTB) SW SECT. 1
TO CAD 237 — CW2A / CW2B — 1 (TSTA) SW. SECT. 1; (DTF) OR (ACDT) KEY OR (DT) REL
TO CAD 250 — DT / MC4 — 5T / 12T (DT) REL (MC4) REL

MFR DISC

TO CAD 225	S	
	R	
	T	
TO CAD 237	LPS1	
TO CAD 221	R	
	T	
TO CAD 203	LPS	
	LPS	59
	TOL	58
	TAN	57
	FVD	56
	OBS	55
	OB	54
	OAS	53
	OA	52
	ABS	51
	AB	50
	PCR	49
	PCD	48
	REP	47
	N	46
	MC	45
	AL	44
	R	43
	T	42
	DOR	41
	STG	40
	SDR1	39
	RCY	38
	SDT3	37
	TVTK	36
	TSTK	35
	SDT2	34
	PCD1	33
	LS	32
	AV	31
	TVTK	
	IB	
	6B	
	1T	
TO CAD 203	DAPR	
	DAPT	

(OR) KEY (TSTA) SW

R / T — TO CAD 237

A&M ONLY

(SDR3) REL MFR DISC OR (IC) SW MFR DISC OR (TRNA) SW

12T (LLP3) REL

(TOL) KEY MFR DISC OR (IC) SW MFR DISC OR (ICL) SW

(SDR3) REL A & M ONLY OR (ICL) SW

(SPL) KEY A & M ONLY OR (TRNC) SW

(SPL) KEY

(PCD) KEY A & M ONLY OR (ICL) SW

7T (SRT1) REL — ADD
9B (SDT) REL — OMIT
} WHEN CALL WAITING IS PROVIDED

6T (RT1) REL

(REP) KEY TO TRUNK TEST CKT

R / T — TO CAD 165

MFR DISC (MLF) KEY

R / T — TO CAD 180

10T (SDT) REL — ADD WHEN CALL WAITING IS PROVIDED

12 OR 12T (SDR1) REL

11B (SDR) REL — LC

(SDT3) KEY

2B / 6T (STK) REL

(SDT2) KEY

(PCD1) KEY A&M ONLY OR (ICL) SW

2B (SDR3) REL

3T / 1T / 9B / 8B (SDT) REL

(SRT1) REL

LOOPED WHEN SENDER TEST CKT IS NOT PROVIDED

TO AMRST CKT (AUX CONT BAY)

TS (AUTO MON A) ON CONTROL BAY

TO CAD 220A — LLS — 5T (DT) REL
TO CAD 237 — STI — 2A (ST) KEY
TO CAD 218 (A&M ONLY) OR TO CAD 219 — STI
TO CAD 238 — N2 — (PS) KEY OR (P) SW
TO CAD 245 — N2
TO CAD 214 — KLI2 / KLI0 — 8B (KR) REL; (TVK) LP
LC OR SWBD CA

CAD 113 (MFR DISC)

(FOR APP FIG 2,14,39,41,45,49,75,122,123,130,131,138,N)
(REPLACED BY CADS 247 AND 249)

TO CAD 222 — KR2 / AREP / PARE / AR / RE / ARE / REP — A&M ONLY 6T (KR) REL; 11B 7B 4T 4B 2B 1T (AREP) REL

A & M ONLY

TO AUTO. MON REGISTER AND SENDER TEST CKT — CAM1 / CAMO — 11 (CAM1) KEY; 11 (CAMO) KEY
TO MASTER TEST FR AUTO. MON BAY — STT / M — 3B (IR) KEY; 6T (4WD) REL; 7B (DT) REL
TO MASTER TEST FRAME REGISTER AND SENDER TEST BAY — KR — 2B 6T (SDT) REL
TO MASTER TEST FR AUTO. MON BAY — KCN / X2 / X1 / NA1 / KH7 / KR2,4,7 / KR0,1 — 10 U (KCN) REL (KACN) REL; 8 (CRX) SW SECT. 2; 7 (CRX) SW SECT. 1; 6 (CRX) SW SECT 3; 5 15 (KCN) REL (KACN) REL; 2,3,4 (CRX) SW SECT. 2; 0,1 (CRX) SW SECT. 1

WHEN ANI IS PROVIDED

TS (AUTO MON B) ON CONTROL BAY

(COMPLETE TS SHOWN ON SD-25680-01)

TO TRUNK GROUP TRAFFIC SAMPLE FR — MTF — 11 9 1M (TSST) REL
TO MASTER TEST CONN FR — RV1 — 11 3 12B (TSI3) REL
TO CAD 207 — RV1 — 11 2 11B
TO CAD 220 — KR3 / KR2 — 11 1 11B (KR) REL; 10 5B (MFC) REL
ARET — 10 9 (ARET) LP
TO AUTO. RANGE EXT TEST FR — AREP / PR — 10 8 11T; 10 7 5B (AREP) REL
TO TRUNK GROUP TRAFFIC SAMPLE MARKER UNIT ON RR FR — TRS1 / NRD / RCD / TRS — 10 6 3B (TSST) REL; A&M ONLY 10 5 (TSI3) OR (NRD) REL; 10 4 (TSI3) OR (RCD) REL; 10 3 3M (TSST) REL
TO 1ST COMPL MKR (COM EQPT FR) — TS — 10 2 3D (RDT) KEY
TO CAD 214 — RDR / RDK / KR / REC — 9 9 (RDR) LP; 9 8 (RDK) LP; 9 7 9T (KR) REL; 9 6 6C (REC) KEY
TO TRUNK GROUP TRAFFIC SAMPLE MARKER UNIT ON RR FR — MT6K / MT5K / SAT — 11 8 2B (TSST) REL; 11 7 (TSI1) REL OR (INH) KEY; 11 6
TO COMPL MKR (COM EQPT FR) — TS1 / TS2 — 11 5 (TSCT) REL; 11 4 (TSI3) OR (TSCT) REL
TO AUTO. PROG TRUNK TEST FR — TRS1 / SAT — 10 1 5 (TSST) REL; 10 0
TO CAD 220 — SAT / TGST — TS (AUTO. MON H) ON CONTROL BAY COMPLETE TS SHOWN ON SD-25680-01
TO CAD 207 — RV — (RV) LP
TO CAD 220A — PR — (PR) LP
TO CAD 244 — PG — (PG) LP

TO CAD 221 — T4(1) / R4(1) / T(4) / R(4) — 3T 6T (MTC1) REL
TO MASTER TEST FR AUTO. MON BAY — 11 — 95 — 8 SECT 1 (TRNA) SW

NT	94	12	
THC	93	4	SECT 1 (TRNC) SW
PHC	92	3	
TRN	91	11	
XII	90	7	
LT3	89	5	SECT 1 (TRNA) SW
LT2	88	4	
LT1	87	3	
SPL2	86		
SPL1	85		(SPL) KEY
SPL	84		
PCT	83	10	SECT 5 (ICL) SW
CX1	82	6	
NICL	81	12	
ICL	80	11	SECT 1 (ICL) SW
INC	79	7	
NCL	78	12	
CL	77	11	
TCA	76	10	
TCB	75	9	SECT 1 (CL) SW
FAC-MF	74	4	
FAC-DP	73	3	
OR-MF	72	2	
OR-DP	71	1	
TCL10	70	11	SECT 1 (TCL) SW
TCL0	60	1	
SA	57	11	(TSST) REL
P	56	10M	
GRU	55	2C	(TGTS) KEY
LTI	54	1B	(TSST) REL
HM	53	12	(TSH) SW
LT	52		(LCT) LP
V9	51	10	(TSH) SW
VO	42	1	
L9	41	10	(TSS) SW
LO	32	1	

TO TRUNK GROUP TRAFFIC SAMPLE FR

TO CAD 108 — MT7K — LC — 29 7T; 28 8T (TSI3) REL
TO CAD 220A — MT7K — OMIT WHEN APTT AND/OR LVT IS PROV

TS (AUTO MON H) ON CONTROL BAY COMPLETE TS IS SHOWN ON SD-25680-01

TO MASTER TEST FRAME REGISTER AND SENDER TEST BAY

LP AT UNEQUIPPED POSITIONS

DRAWING ISSUE
102B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-G18

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

DRAWING ISSUE	
51D	GAP, LM, AND
58D	PPS, MAP, AND
62D	NLF, ASJ, AND
63D	RLP AND
66A	ATT, 3A, AND
67D	MLA
69D	LFP
70A	LFP
71D	DLB
72A	DLB
73D	
74A	
76D	
78D	
79A	
80D	
82D	
83A	

CAD 114

(FOR APP FIG. 2,4,20)

TO MTF RST

OMIT WHEN IDDD IS PROVIDED

OMIT WHEN ETS IS PROVIDED

BA9 29 3T
BA8 28 7T
BA7 27 5T
BA6 26 3T
BA5 25 1T
BA4 24 9B
BA3 23 7B
BA2 22 5B
BA1 21 3B
BA0 20 1B
(HN)REL

AA9 19 9T
AA8 18 7T
AA7 17 5T
AA6 16 3T
AA5 15 1T
AA4 14 9B
AA3 13 7B
AA2 12 5B
AA1 11 3B
AA0 10 1B
(TH)REL

TO MTF RST

9 09 (9) DIGIT KEYS
8 08 (8) DIGIT KEYS
7 07 (7) DIGIT KEYS
6 06 (6) DIGIT KEYS
5 05 (5) DIGIT KEYS
4 04 (4) DIGIT KEYS
3 03 (3) DIGIT KEYS
2 02 (2) DIGIT KEYS
1 01 (1) DIGIT KEYS
0 00 (0) DIGIT KEYS
(E)SW SECT. 4

5 4 3 2 1 0

TO CAD 209

TS (AUTO MON GR) OR CONTROL BAY

OMIT WHEN 4-WIRE IS PROVIDED

TO CAD 241

MD 59
MK 58
M7 57
M4 56
M2 55
M1 54
MO 53

MD
M7 8 SECT. 2
M4 1
M2 7 SECT. 3
MI 4
MO 2
(M) SW

KL 52 2 (KL)REL
K3 51 4T
KI 50 1T (K1)REL

1T
KI
TO CAD 254

DA9 49 9T
DA8 48 7T
DA7 47 5T
DA6 46 3T
DA5 45 1T
DA4 44 9B
DA3 43 7B
DA2 42 5B
DA1 41 3B
DA0 40 1B
(U)REL

TO MTF RST

CA9 39 9T
CA8 38 7T
CA7 37 5T
CA6 36 3T
CA5 35 1T
CA4 34 9B
CA3 33 7B
CA2 32 5B
CA1 31 3B
CA0 30 1B
(T)REL

TS(AUTO MON GR) ON CONTROL BAY

CAD 115

(FOR APP FIG. 4)

TO CAD 218A

F7 29
F4 28
F2 27
F1 26
F0 25
(F)KEY SW

E7 24
E4 23
E2 22
E1 21
E0 20
(E)KEY SW

D7 19
D4 18
D2 17
D1 16
D0 15
(D)KEY SW

TO MTF AM

C7 14
C4 13
C2 12
C1 11
C0 10
(C)KEY SW

B7 09
B4 08
B2 07
B1 06
B0 05
(B)KEY SW

A7 04
A4 03
A2 02
A1 01
A0 00
(A)KEY SW

TS(AUTO MON RTC) ON CONTROL BAY

TO MTF RST

SSR

LC OR SWBD CA

(M) SW

59
58
57
54
55
SHOWN ON SD-25680-01

L7 54
L4 53
L2 52
L1 51
L0 50
(L)KEY SW

K7 49
K4 48
K2 47
K1 46
K0 45
(K)KEY SW

TO MTF AM

J7 44
J4 43
J2 42
J1 41
J0 40
(J)KEY SW

H7 39
H4 38
H2 37
H1 36
H0 35
(H)KEY SW

G7 34
G4 33
G2 32
G1 31
G0 30
(G)KEY SW

TS(AUTO MON RTC) ON CONTROL BAY

TO CAD 218A

DRAWING ISSUE

51D	AWC	LM AAA
52D	WLM	RSL BBB
64A	TEK	JA AM
70A	ESM	
72A	DLB	
73D		
78D		CB

ISSUE 99A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G19

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

STABILO

SD-25800-01-G19

CAD 116

(FOR APP F'G. 3,7,9,14. 20,24,26,46,49,60,64,156,171,178,J&K)

TO CAD 207

LC

TO CAD 151 TVK

TO TTR

TVT2 — LC TO CAD 133 (A & M ONLY)
TVK — SWBD CA TO LVT REL UNIT (A & M ONLY) OR LC TO CAD 149

SDT2 81 — 6B
TVT2 90 — 3B
SDT1 83 — 9B — (CAM4) REL OR (ATV) REL
TTK 50 — 9T
TVK 36 — 6T

TO AMA TV FR 0, COMB AMA/ANI TV FR 0 OR PROGRAM CONTROLLED TRANSVERTER CKT

TO AMA TV FR 0, COMB AMA/ANI TV FR 0
TVT1 80 — 3T
TVT2 — 2B
TVT1 — 2T
SDT2 — 4B
TVK — 5T — (CAM4) REL
TTK — 7T
SDT1 — 7B

TO CAD 165

MFR DISC

LOOP AT POS OF UNEQUIPPED REL

TO LINE LK AUTO INCPT CONT UNIT ON REL RACK (A&M ONLY) OR TO LINE, LINE LK & MKR CONN CONT CKT OR TO AUX LINE FOR LLP OR LLP/AIS LINE FOR USE WITH NO. 5 ETS

TMT — TMT TO PROGRAM CONTROLLED TRANSVERTER CKT (CAMA)

TO PROGRAM CONTROLLED TRANSVERTER CKT (LAMA, ANI, OR LAMA-ANI)

RB 60 — (RMB) OR (TMT) KEY
ST 70 — 3B — (TP) REL
EXT 71 — 3B — (TBL) REL
— 2T — (STK) REL
B 91 — 1T — (CO) REL
TCB 92 — 13B — (RC1) REL
— 4B — (TCB) REL

TO AMA TV FR 0, OR CAMA TV FR 0

TO ANI TV FR 0

TO MA TST FR TST TRK FROM LTD (REL RACK FR) — LK 30 — 6T — (KTS) REL

TO APTT (SEE NOTE 204) (MFR DISC) OR TO CAD 168 — LK — 7T — (S1) REL IN VM TST CKT (SD-25792-01)

ATT

TO TRK LK & CONN (MFR DISC) OR TO 2W OR 4W TRK LK (JCTR BAY) — ATT 34 — 3T — (ATT) REL

TTK

TO TRK LK & CONN CKT (MFR DISC) OR TO 2W OR 4W TRK LK (JCTR BAY) — TTK 32 — TTK TO TRK TST CKT; 11T (MTT) REL; 2D (MTTA) KEY

REQD WHEN DIRECT ACCESS TO 101 ESS IS PROVIDED AND LINE LINK PULSING & AIS WITH DEDICATED SENDERS ARE NOT

TO AIS LINE CKT ON OS AIS FR — LTC — MFR DISC

TO TR REG CKT (TR REG REL RACK) — PCT 40 — 3T — (N1) REL

REQD WHEN LINE LINK PULSING IS PROVIDED AND AIS WITH DEDICATED SENDERS ARE NOT

REQD WHEN 3 DIGIT CALLING IS PROVIDED

TO CAD 202

MFR DISC

T(I)K, T(I)E, T(I)L — TO CAD 208

T — 01 — 8T — (LTI) REL — TI — T(I)J — TO CAD 196; TO CAD 225

T(I)A, T(I)C

TO TRK LK & CONN CKT (TRK LK FR) (MFR DISC) OR TO TRK LK FR (TRK BAY) (SEE NOTE 218)

R(I)K, R(I)E, R(I)L — TO CAD 208

R — 11 — 6B — (LTI) REL — RI — R(I)J — TO CAD 196; TO CAD 225

R(I)A, R(I)C

S(I)K, S(I)E — TO CAD 208

S — 21 — 4T — SI — S(I)J — TO CAD 196; TO CAD 225

S(I)A, S(I)C

TO CAD 203 REQD WHEN DIRECT ACCESS TO 101 ESS IS PROVIDED AND 3 DIGIT CALLING IS NOT

TS (B) ON CONT BAY

REQD WHEN AIS WITH DEDICATED SENDERS IS PROVIDED AND 3 DIGIT CALLING, DIRECT ACCESS, & LINE LINK PULSING ARE NOT

T(I)G, R(I)G, S(I)G — TO CAD 225

CWTH2, CWTH6 — TO CAD 237

REQD WHEN AIS WITH DEDICATED SENDERS IS PROVIDED

REQD WHEN LINE LINK PULSING IS PROVIDED AND 3 DIGIT CALLING & DIRECT ACCESS TO 101 ESS ARE NOT

OMIT WHEN 3 DIGIT CALLING, DIRECT ACCESS TO 101 ESS, LINE LINK PULSING OR AIS WITH DEDICATED SENDERS

(MFR DISC)

S2 — 7T — (NTC1) REL — NOT REQUIRED WHEN 3 DIGIT CALLING IS PROVIDED

S1 — FA — TO CAD 196

CHT — ADD — FOR ACD

30C — OMIT

TO CAD 241

TO CAD 202

TO TRK LK & CONN CKT (TRK LK FR) (MFR DISC) OR TO TRK LK FR (TRK BAY) (SEE NOTE 318) — FA(I) — 31 — 9B — (TMI) REL; 1T — (LT) REL; 8T

TO LINE INS TST CONT CKT (SEE NOTE 203) (MFR DISC) OR TO CAD 169 — T — 07 — NTS — TO CAD 217; 4T; 3T — (NTH) REL

R — 17 — 4B; 6T — (4WC) REL

TO NO TST CONN CKT (REL RACK FR) OR ACD LINE LK FR

S — 27 — 7T — (NTC1) REL — S — TO CAD 106; 11T — (NTH) REL

H — 37 — 3T — (LK1) REL; 2T; 3T — (4W8) REL

CHTO, CHTI — TO CAD 241

JC0 — 47 — 1T
JC1 — 08 — 3T
JC2 — 18 — 5T
JC3 — 28 — 7T
JC4 — 38 — 9T — (F1) REL
JC5 — 48 — 1B
JC6 — 09 — 3B
JC7 — 19 — 5B

TO NO TST CONN CKT (REL RACK) FR

SHOWN ON LINE INS TST CONT CKT

SHOWN ON LINE LK & CONN CKT (ORIG TST LINE)

T, R, S — 2W, 1W — HMDF

T — 02 — CR — MFR DISC — 3T
R — 12 — LT — 3B — LT — 6T — (NTC1) REL
S — 22 — LR — 6B — LR — 9T
LS — LS — CQ — MFR DISC — S — TO CAD 250; (4WF) OR (NTC1) REL; (4WC) REL; TO CAD 196 (MFR DISC)

TO CAD 202 — 8

TS (MISC 8) MFR DISC OR TS (3) ON CONT BAY

ADD, OMIT — WHEN ACD CALL TRANSFER IS PROVIDED

(COMPLETE TS SHOWN ON SD-25918)

ZJR

IA3 — 7B — (IA0) REL
IA2 — 1B — (SCB1) REL
IA1 — 2B
IA0 — 4B — (NTC1) REL — ZJQ

TO CAD 220

TO CAD 241 — AS

TO CAD 190 — CATN7 — 3B — (LLP3) REL; CATN1 — 1T — (LLP) REL

TO CAD 241 (ZPZ) OR TO CAD 251 (ZOA) — NTTS — (NTTS) KEY

CWTH8 — 12B
CWTH7 — 11B
CWTH5 — 7B — (LTI) REL
CWTH4 — 8T
TO CAD 237 — CWTH3 — 9T
MFC2A — 5T — (LK2) REL

TO CAD 220A — MFC2A — 4T — (LK2) REL

VER — 11T — (KFU) REL
TO CAD 237 — FTK — 2B — (FTK) REL
FKA — 2B — (FUK) REL
NTH — 5T — (NTH) REL
NTC1 — 5B

TO CAD 204 — EXT — 2B — (NTC) REL

KTS — 5B — (KTS) REL
TT — (TT) RES LP
PTS12B — 11T
TFT7 — 10T
TFT4 — 8T
TFT2 — 6T
TFT1 — 4T — (KTF) REL
TFTO — 2T
FGT2 — 6B
FGT1 — 4B
TO CAD 254 — FGTO — 2B
PTS11 — 9T — (KTS) REL
PTS2 — 3A/3C — (NTTS) KEY
PTS3 — 3A/3C — (TS) KEY
PTS9 — 9T — (KFS) KEY
PTS4 — 3C — (FS) KEY
PTS8 — 2B — (KFS) KEY
PTS5 — 3D — (NTFS) KEY

CT7 — 10T
CT4 — 8T
CT2 — 2T
CT1 — 4T
CT0 — 6T
CU7 — 10B
CU4 — 8B — (KCS3) REL
CU2 — 6B
TO CAD 256 — CU1 — 4B
CU0 — 2B
CR7 — 8 — SECT 2
CR4 — 5
CR2 — 7
CR1 — 4 — SECT 1 — (CRU) SW
CR0 — 2
CGB — 3A — (CSGB) KEY
CGA — 3B — (CSJA) KEY

ZXJ

TO CAD 201 — NG2K — 3B — (LLP) REL

135

TO CAD 222 — WI0B

146

TO CAD 237 — WI0

DRAWING ISSUE

51D	EN LW AHO
53D	P EM AHO
56D	DR EM AHO
57A	DR EM AHO
58D	JUR WHB AHO
59A	JUR WHB AHO
60D	MD TW AHO
62D	JR MSL AHO
63D	SSL WLP AHO
64A	JGS WLB AHO
65D	JEK L.a AHO
72A	ESN
73D	
79A	
79D	
77A	
78D	
80D	
82D	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G20A

BELL TELEPHONE LABORATORIES INCORPORATED

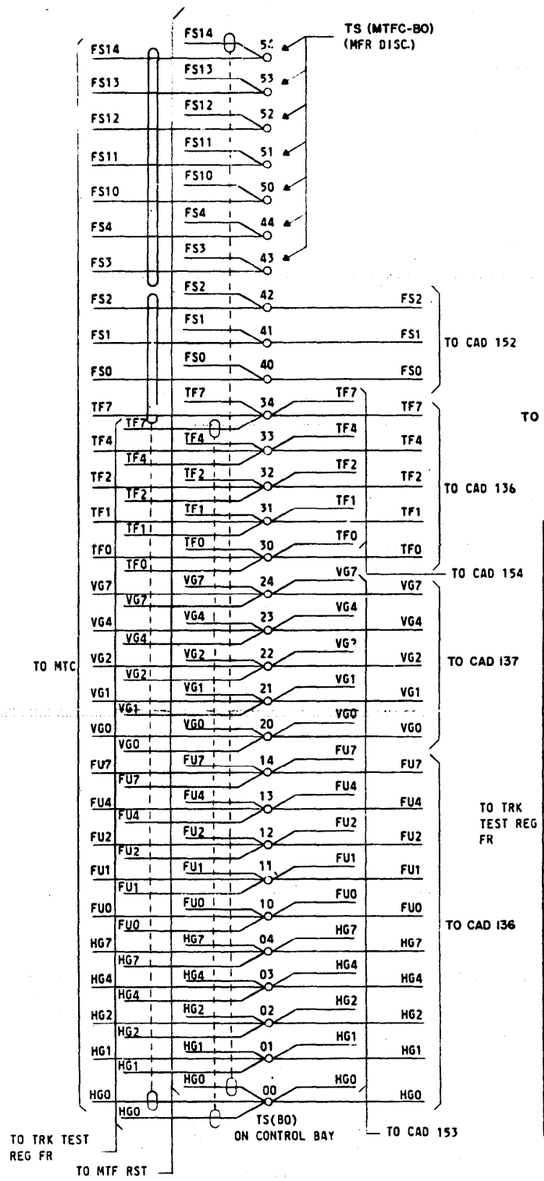
SIZE 6S

PRINTED IN U.S.A.

HIGGINS 4465 K&E

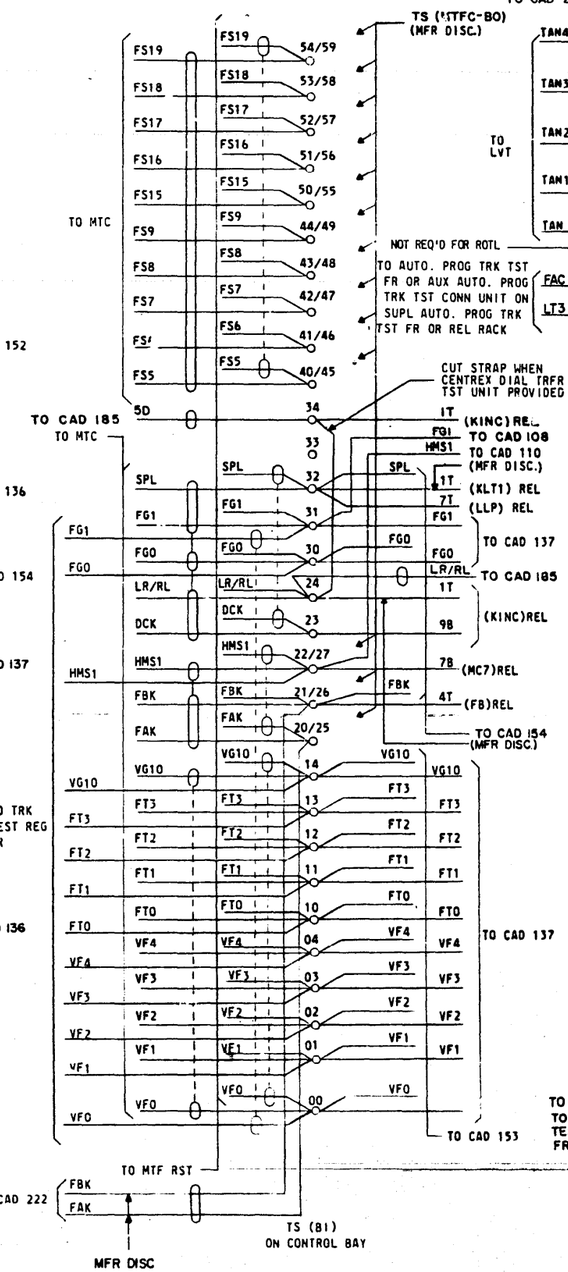
SD-25800-01-G20A

CAD 117



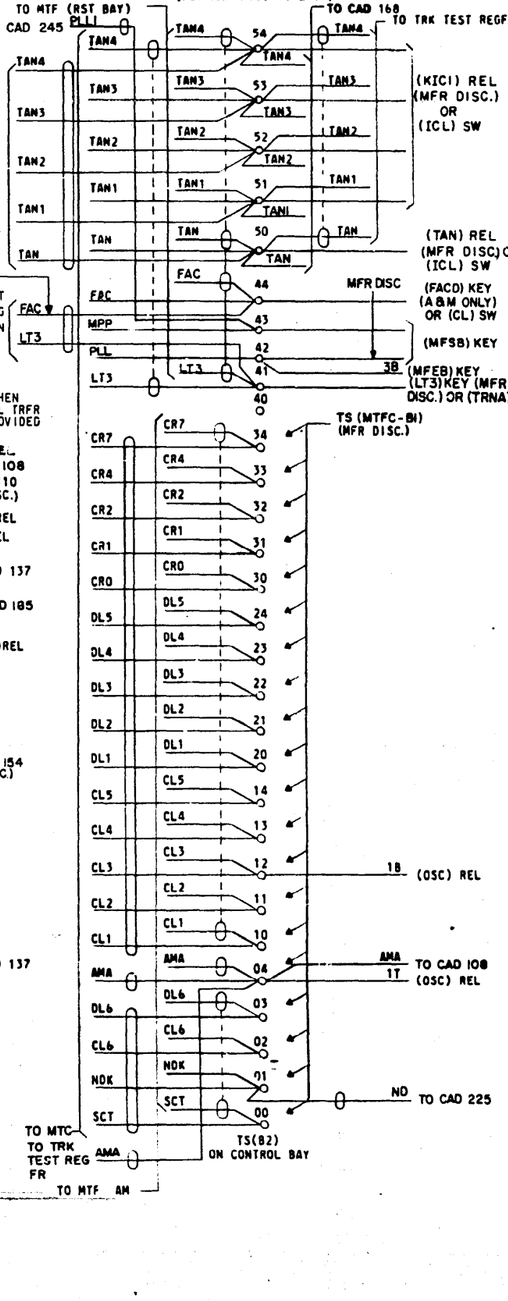
CAD 118

(FOR APP FIG. 11,13,15,60,178)



CAD 119

(FOR A.P FIG. 11 & 17)



DRAWING ISSUE

62D	AMA RLP AMA
63D	CF RLP AMA
64A	LCO RLP AMA
66A	SCA RLP AMA
69D	FSM
71D	SF
73D	
80D	
81A	

SD-25800-01-G208

STABILO

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G208

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CAD 120
FOR APP FIG. 7,11,13,H,W,X)

TO MTF RST
RO
TO MTC
INC
TO LVT
PCDI
PCD
PCR
2DT
THC
PHC
CRU7
CRU4
CRU2
CRU1
CRU0
OSG4
OSG3
OSG2
OSG1
OSG0
OS4
OS3
OS2
OS1
OS0
TBI
RI
BN
54
53
52
51
50
44
43
42
41
40
34
33
32
31
30
24
23
22
21
20
14
13
12
11
10
04
03
02
01
00
11T (KINC) REL MFR DISC OR (RO) KEY TO CAD 154
INC (K1C) REL MFR DISC OR (ICL) SW
TO TRK TEST REG FR
2DT (KLTI) REL TO CAD 111 TO CAD 165
(K1C1) REL MFR DISC OR (TRNA) SW
PCD1 (PCD1) REL MFR DISC OR (ICL) SW
PCD (PCD) REL MFR DISC OR (ICL) SW
PCR (PCR) REL MFR DISC OR (ICL) SW
(K1C) REL MFR DISC OR (TRNB) SW
TO CAD 110
10B
8B
6B (KCS6) REL
4B
1T
TO LVT CLASS OF SERVICE ON CLASS UNITS AND TENS BASIS AND 1-20 RATE TREATMENTS PROVIDED
TO CAD 256
TO LVT OR TO ETS-PDI CKT
5M
4M
3M
2M
1M (KOSA) REL
17M
16M
15M
14M
13M
11T
11B
9B (KLT1) REL
TO CAD 254
TO CAD 220
ZIK
ZIL
TO CAD 154
ADD
WHEN AIS (NOT USING LLP) IS PROVIDED
TS(B3) ON CONTROL BAY
REMOVE
4
1
3
11T
11B
9B (KLT1) REL
TO CAD 254

CAD 121
(FOR APP FIG.4)

TO MTF AM
L7
L4
L2
L1
L0
J7
J4
J2
J1
J0
G7
G4
G2
G1
G0
E7
E4
E2
E1
E0
C7
C4
C2
C1
C0
A7
A4
A2
A1
A0
TO MTC
TO CAD 110
1T (KK) REL
3B
1B
4T (KL) REL
6T
1T (KH) REL
3B
1B
4T (KJ) REL
6T
5B
3B
1B (KG) REL
4T
6T
5B
3B
1B (KE) REL
4T
6T
TO CAD 154
TO CAD 136
TO TRK TEST REG FR
TS(B4) ON CONTROL BAY

CAD 122
(FOR APP FIG.4,5,17)

TO LVT CKT IF PROVIDED OR TO CLVA OR TO ETS-PDI CKT
TO CAD 225
TO CAD 241
TOMTF RST
NGK
M7A
PK
PD
PS
M7
K7
K4
K2
K1
KO
H7
H4
H2
H1
HO
F7
F4
F2
F1
FO
D7
D4
D2
D1
DO
B7
B4
B2
B1
BO
TO MTC
TO LVT
MFR DISC
ADD
OMIT
WHEN WIDEBAND IS PROVIDED
TO CAD 221
TO CAD 108
3T (KOR1) REL
TO CAD 221
(PD) KEY
TO CAD 221
(PS) KEY
1T (KL) REL
TO CAD 110
1T (KJ) REL
3B
1B
4T (KK) REL
6T
5B
3B
1B (KH) REL
4T
6T
5B
3B
1B (KF) REL
4T
6T
10T
TO CAD 154
8T
6T (ND) REL
4T
2T
B7
B4
B2
B1
B0
TO MTF RST
TO CAD 136
TO MTF AM
TO TRK TEST REG FR
TS(B5) ON CONTROL BAY

CAD 123
(FOR APP FIG.7,11,12,17,W,X)

TO MTF AM
TO MTC
BR7
BR4
BR2
BR1
BRO
AR7
AR4
AR2
AR1
ARO
TOL
TCC
TCB
TCA
LT1
LT2
THT1
THTO
TCA
AVK1
TST
BT
MON
54
53
52
51
50
44
43
42
41
40
34
33
32
31
30
24
23
22
21
20
14
13
12
11
10
04
03
02
01
00
TS(MTF3-83) MFR DISC
SHOWN ON SD-25680-01
TO CAD 168
TO MTC
(K1C) REL MFR DISC OR (ICL) SW
TO LVT
TO MTC
1T (TCBT) REL (A&M ONLY) OR (CL) SW
TO CAD 134
TO CAD 168
3T (LT1) KEY MFR DISC OR (TRNA) SW
TO CAD 111
3A (LT2) KEY MFR DISC OR (TRNA) SW
TO MTC
3B (THT1) KEY
TO CAD 111
1B (THT1) KEY
MFR DISC
TO CAD 136
1A (THT1) KEY
TO LVT
TO LVT CKT IF PROVIDED OR TO ETS-PDI CKT
SHOWN ON SD-25680-01
1B (THT3) KEY
10M
9M
8M
7M
6M (KOSA) REL
1B (KOR) REL
ADD
OMIT
WHEN A MAX OF 4000 TRUNK NUMBERS PER MARKER GROUP PROVIDED
TO CAD 149
TO CAD 156 FOR FIG.A OR TO 9T (TV4) REL
TS(B6) ON CONTROL BAY
TS (MTF3-83) MFR DISC
TO TRK TEST REG FR
TO MTF RST
TO CAD 136

DRAWING ISSUE

53D	
55A	
59A	
62D	
63D	
65D	
66A	
69D	
73D	
77A	
78D	
79A	
80D	
81A	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-G21
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-G21

CAD 124
(FOR APP FIG. 11,12, & 17)

TO AMRST CKT
TO MTC CKT
TO CAD 138
(KTN1) REL
(KTN) REL
TO TRK TEST REG CKT
A & M ONLY
(KIC) REL MFR DISC OR (TRNA) SW OR (TRNA) SW
TO CAD 168
TO CAD 111
(KIC) REL MFR DISC OR (TRNA) SW
(LT2) KEY
(KOR1) REL
(LT1) KEY
(LT3) KEY
MFR DISC OR (TRNA) SW
MFR DISC
(11) KEY MFR DISC OR (TRNA) SW
(X11) KEY MFR DISC OR (TRNA) SW
TO APTT
TO CAD 153
(KLT1) REL MFR DISC OR (TRNB) SW
TO CAD 153
(KLTI) REL MFR DISC OR (TRNB) SW
(KOR) REL
TO MTC CKT
TO CAD 108
(CNR) KEY
(KOR1) REL
(SCN) KEY
TO AMRST CKT
TO LVT CKT
TS (B7) ON CONT BAY

CAD 125
(FOR APP FIG. 1,6,9 & 13)

TO CAD 202
MFR DISC
TO CAD 153
(KHGT) REL
(KV1) REL
(KFU) REL
TO CAD 154
(MC6) REL
(KINC) REL
TO CAD 108
(MC6) REL
WHEN EITHER APTT OR LVT OR BOTH IS PROVIDED
TO CAD 165
(KINC) REL
(MC1) REL
WHEN NEITHER APTT OR LVT IS PROVIDED
TO MTC CKT
(KHGA) REL
(KMT9) REL
TO CAD 165
WHEN NEITHER APTT OR LVT IS PROVIDED
MFR DISC
(KVG4) REL
(KVG3) REL
TS (C0) ON CONT BAY
TO TRK TEST REG CKT
TO CAD 153
TO CAD 251
(KMT9) REL
TO CAD 254
(MC2) REL

CAD 126
(FOR APP FIG. 6,9,10,13,15 & 41)

TO CAD 110
LOOP AT POS OF UNEQUIPPED REL TO CAD 165
TO LVT CKT
TO APTT CKT
(CAM1) REL
TO CAD 108
TO CAD 165
TO CAD 154
(F) REL
A & M ONLY
(FB) REL
TO CAD 153
(KFU) REL
(MC7) REL
(KCH) REL
(MC6) REL
MFR DISC
(XHGA) REL
TO MTC CKT
(KVI) REL
TO CAD 237
(KVG4) REL
(KVG3) REL
ADD
OMIT
WHEN CALL WAITING IS PROVIDED
TS (C1) ON CONT BAY
TO CAD 237
MFR DISC
TO CAD 251
TO CAD 222
(STP2) KEY
(STP) REL
(KRA) REL
(KFCI) REL
(KCH) REL
(CT4) REL

CAD 127
(FOR APP FIG. 1,2,7,9,25, 171 & 8)

MFR DISC
TO CAD 241
TO CAD 222
(FB) REL
(TNK) REL
TO TRK TEST REG CKT
TO CAD 108
(TSII) REL OR (TNK) DIODE
(MC4) REL
(MC6) REL
TO CAD 149 (TVI) OR (TV3) REL
(TRS) KEY
TO AMRST CKT
(KCS3) REL
(KCS2) REL
(KCS1) REL
(KCS0) REL
TS (C2) ON CONT BAY
TO CAD 153

DRAWING ISSUE
510 LM
52A LM
530 LM
56D DT
57A DT
60D RB
61A AS
62D AS
63D AS
64A AS
68A
710 RJF
81A

ISSUE 103A

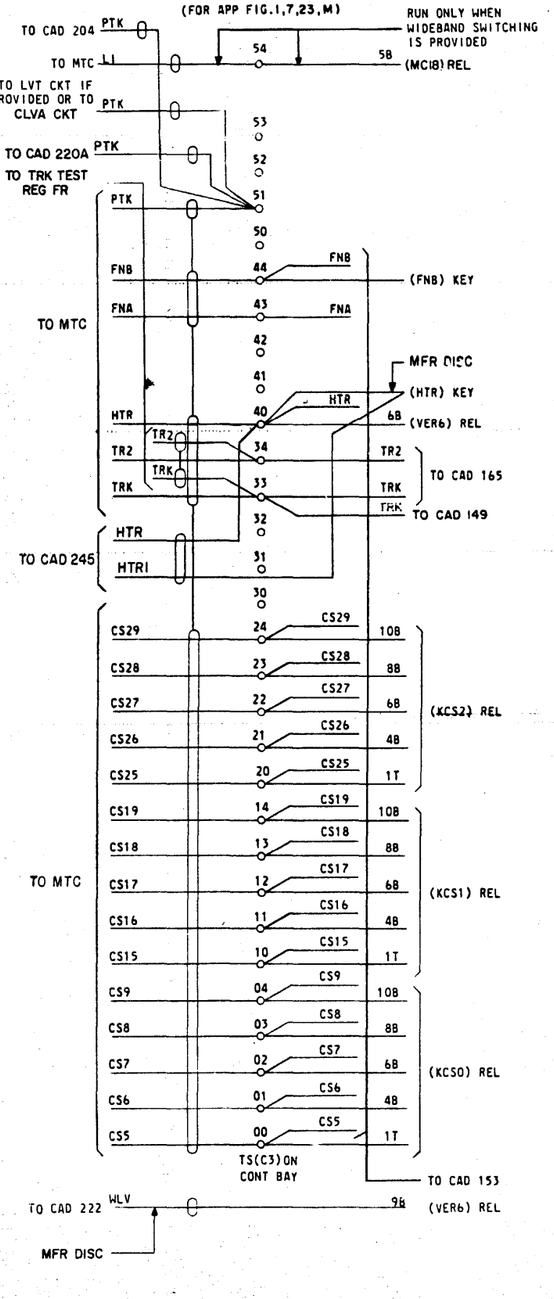
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-G22
BELL TELEPHONE LABORATORIES INCORPORATED
SHEET 6S

SD-25800-01-G22

STABILO

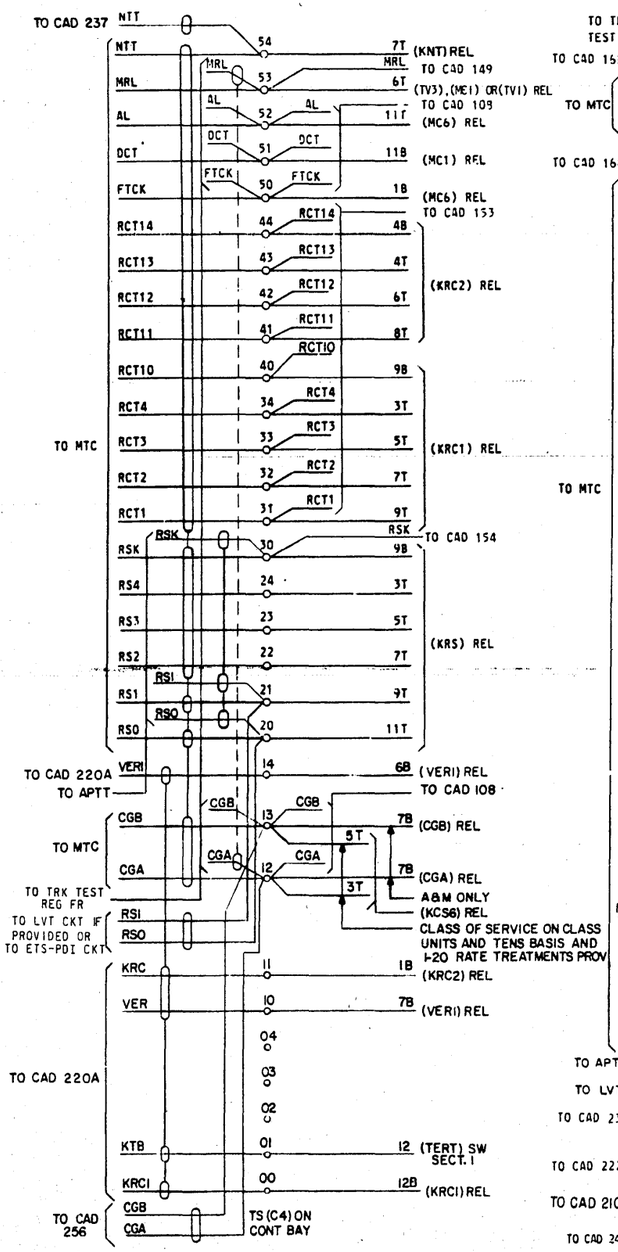
CAD 128

(FOR APP FIG.1,7,23,M)



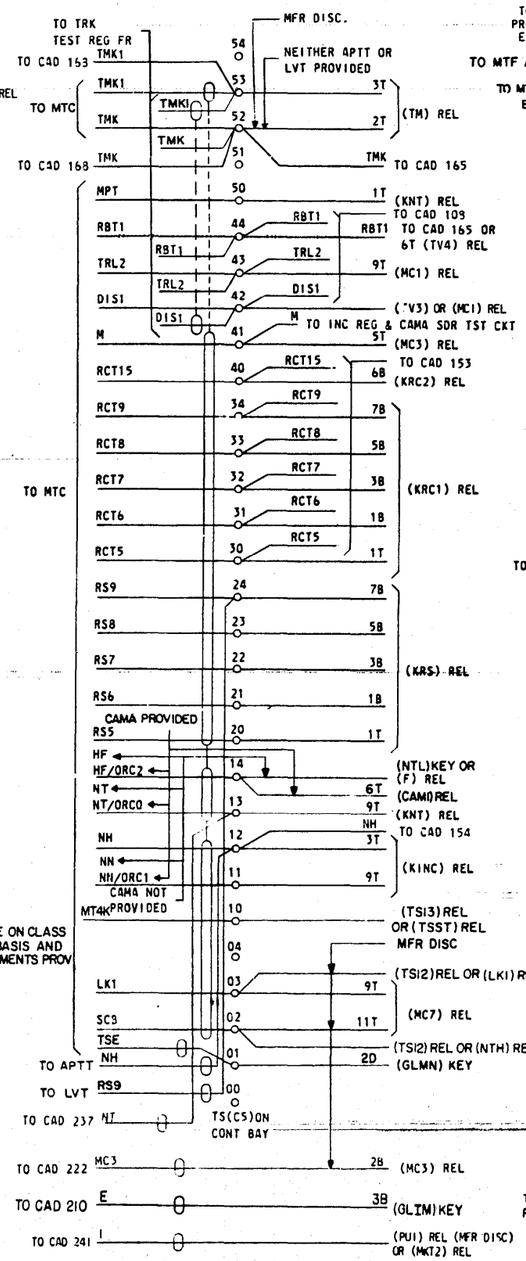
CAD 129

(FOR APP FIG.1,7,9,13,16,37,171,B)



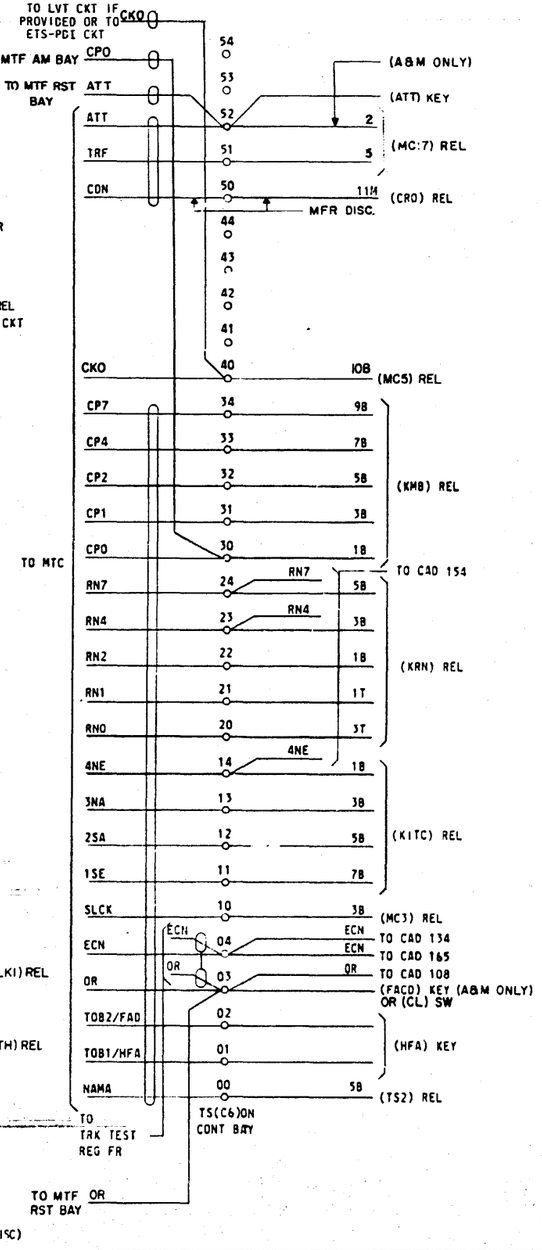
CAD 130

(FOR APP FIG.1,2,7,13,15,16,111,B)



CAD 131

(FOR APP FIG.2,3,12,13,17,25,55)



DRAWING ISSUE	
51D	
53D	
56D	
58D	
60D	
62D	
63D	
66A	
67D	
68A	
71D	
73D	
74A	
76D	
80D	
81A	
83A	

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G23

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

SD-25800-01-G23

CAD 133

(FOR APP FIG. 1,2,3,20, 40,41,43,44,46 53 54,63,64,82,85 &R)

CAD 132

(FOR APP FIGURES 9,12,13,17,20,W & X)

TO CAD PTS12 254 — 54 — (SGU) SW OR (TRF1) REL OR (KF2) REL

TO CAD 220 OSK

SSB — 42 — 20M
SSA — 41 — 21M
OSK — 34 — 22M
(KOSA)REL

ONN — 32 — 11B — TO CAD 154 (KITC) REL
NOB — 31 — 2B — (KTV)REL
OBS — 30 — OBS — TO CAD 165

TO MTC

MB7 — 24 — 1T
MB4 — 23 — 3T
MB2 — 22 — 5T
MB1 — 21 — 7T
MB0 — 20 — 9T
(KMB)REL

9NP — 14 — 9T
8SP — 13 — 7T
7RN — 12 — 5T
6NT — 11 — 3T
5ST — 10 — 1T
(KITC) REL

TO TRK TST REG FR — GPA, GPB — 04 — 5T — (KOR) REL
GPB — 03 — (GPB)KEY — TO CAD 108
GPA — 02 — (GPA)KEY
TO MTC — CNR — 01 — 5T — (KOR)REL
OCN — 00 — (OCN)KEY
MFR DISC.
TS(C7)ON CONTROL BAY
TO CAD 176
CONN WHEN SUPL 4-WIRE TEST UNIT NOT PROVIDED

TO CAD 254 PTS3 — GPA — 20 — 30 — (GPA) KEY
TO DAS ETS CKT — GPB — 3C — (GPB) KEY

TO ANI TRANS FR O (MFR DISC)
TO CTV FR O OR PROGRAM CONTROLLED TV CKT (CAMA)

SDT2 — 43
SDT1 — 42
(CAM4) REL OR (ATV) REL. (MFR DISC) OR (CAM4)REL

TU9 — 41
TU8 — 40
TU7 — 39
TU6 — 38
TU5 — 37
TU4 — 36
TU3 — 35
TU2 — 34
TU1 — 33
TU0 — 32
(POSU) ~~(P03)~~SW SECT. 2

TO CPL

SGB(1) — 31 — 2 OR 3T
PSB — 30 — 1 OR 1B — (SGB)REL
SGA(1) — 29 — 12 OR 3T
PSA — 28 — 11OR1B — (SGA)REL
ON — 27 — 4B — (GS)REL
C1 — 26 — 6B — (POSC)REL
L — 25
PD — 24
KPR — 23 — 9T
KPT — 22 — 8B — (AIA)REL
R — 21 — P
T — 20 — P

MFR DISC
TO CAD 244 MTCPO — EPR — 4T — (CDTT) KEY OR (CAM7), (ASDR) OR (LK2) REL
TO CAD 222 KRI — 3T — (KR) REL

SEE NOTE 208
SEE NOTE 207

11 — 21 — 7T (CAM4)REL
31 — 3T (P)REL
12 — 22 — 4B (CAM6)REL
32 — 3T (PDR)REL
13 — 23 — 2T (AIA)REL
23 — 6T (P)REL
33
14 — 24 — 3T (AIA)REL
34 — 3B (P)REL
15 — 25 — 2B (TBC)REL
4 (RO)INDR
35
16 — 26 — 4B (TBC)REL
1 (RO)INDR
36 — SEE NOTE 213
17 — SEE NOTE 214
27
37
(PD)REL 5T — 18
(PI)REL 4B — 38
(RO) RES
TS(A) ON J23255 U-( ) UNIT

TO CAD 168 — TST1 — 19 — (LOM1)KEY
TO CTV FR O — TSTO — 18
LONM — 17 — (LOMO)KEY
BIT — 16 — (BIO)KEY

TO CPL — MI — 15
TO APTT — MI
AIA — 14 — 12B (CAM7)REL
TO CAMA SDR — SRT — 13 — 3B (CAM)REL

WHEN CAMA IS PROVIDED
TO CAD 168 — RS — 12 — 11T (KR1)REL
TO CAMA SDR — RS
PS1 — 11 — 1T (MKT1)REL
TO CAD 168 — TST
TST — 10 — 8T (TKT)REL
TO CAMA SDR
TO HTI TONE SUPPLY ON PRTD — HTJ — 09 — (TN)CAP.
TO CAMA IN GRP TRK — F — 08 — 6T
TO CTV FR O — TSK1 — 07 — 9B — TSK1 — TO CAD 134 (TCB) REL — 6B
(CAM)REL
N — 06 — 7T (POSC) REL
RSTA — 05 — (ANY POS) KEY
RST — 04
TO CAMA SDR — SGA — 03 — 11T
SGB — 02 — 9T
PS2 — 01 — 3T
PD — 00 — 5B — 3T (CAM) OR (PLST) REL
(CAM)REL
TS(CAMA)ON CONTROL BAY
TO CAD 168
(MFR DISC.)

SHOWN ON SD-25918-01

99 — 76 — 6B (IR) REL
TO CAD 244 MTCP — 75 — (CAMI) OR (N) REL
TO APTT E2 — 74
TO CPL M2 — 73 — 6T (AIA) REL
E1 — 72 — 2T (PDR) REL
TO APTT
TO CAMA SDR MST — 71 — 1T
DMS — 70 — 4T — (DMS)REL

TO SERV OBS TRK SEL AND CONT CKT ON RR — CMT, CMG — 69
TO CA9 168 — CMT, CMG — 68
WHEN CAMA IS PROVIDED
TO SERV OBS TRK SEL AND CONT CKT ON RR — CMT, CMG — 67, 66 — (CAM1)REL
TO CAD 220B — CMT, CMG
TO CAD 168 — TBL, TVC — 65, 64
TO CTV — TBL, TVC

TO SENDER LINK ASSOC WITH CAMA SENDER GROUP 3 — SC, HM, R, T, AB — 63, 62
TO SENDER LINK ASSOC WITH CAMA SENDER GROUP 2 — SC, HM, R, T, AB — 61, 60, 59, 58, 57 — (SGU) ~~(56)~~SW SECT. 3
TO SENDER LINK ASSOC WITH CAMA SENDER GROUP 1 — SC, HM, R, T, AB — 56, 55, 54, 53, 52 — P — R 7B, T 9B — (CAMS)REL
TO SENDER LINK ASSOC WITH CAMA SENDER GROUP 0 — AB — 52 — (CA)KEY
SC, HM — 51, 50 — (SGU) ~~(56)~~SW SECT. 3

TO ANI TRANS FR O (MFR DISC) — TO CAD 116 A & M ONLY
TO CAD 168 — APTT, CAM — 49, 48 — (APTT)LP, 2B (TSK2)REL
TVT2 — 47
TVT1 — 46
TVK — 45 — (CAM4)REL OR (ATV) REL. (MFR DISC) OR (CAM4)REL
TTK — 44 — (MFR DISC)
TO CTV FR O OR PROGRAM CONTROLLED TV CKT (CAMA)
TO CAD 168 — TVK, TTK — TVT2(A), TVK(A) — LC TO CAD 149
PROVIDE ONLY WHEN ANI IS PROVIDED
TO APTT FR FOR ANI (MFR DISC)
TS(CAMA)ON CONTROL BAY

DRAWING ISSUE

5D	UH1 4W
52A	UH1 4W
53D	UH1 4W
64A	UH1 4W
71D	UH1 4W
80D	

ISSUE 104B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-G24

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-25800-01-G24

STANDARD

CAD 134

TO PROG SEL & DET TST UNIT OR SUPL LLP TST UNIT MFR DISC OR AUX IT TRK TST UNIT MFR DISC ON SUPL APTT OR REL RACK — TCB — 34
TO CAD 244 — PRI — 33
TO APTT FR OR AUX APTT CONN UNIT OR AUX IT TRK TST UNIT MFR DISC ON SUPL APTT OR REL RACK — ECN — 32
TO CAPTT FR OR TO PROG SEL & DET TST UNIT ON SUPL APTT OR REL RACK — PCR — 31
TO CAD 168 — PR1 — 30
MFC — 29
FTC — 28
SRT1 — 27
MTL(1) — 26
AKT — 25
TCB — 24
ECN — 23
MFR DISC — F — 22
TO APTT — INC — 21
TO CAPTT — INC — 20
TO CAPTT OR TO PROG SEL & DET TST UNIT ON SUPL APTT FR OR REL RACK — PCR — 19
TSK1 — 18
UT7 — 17
UT4 — 16
UT2 — 15
UT1 — 14
UT0 — 13
TO CAPTT — TT7 — 12
TT4 — 11
TT2 — 10
TT1 — 09
TT0 — 08
HT7 — 07
HT4 — 06
HT2 — 05
HT1 — 04
HT0 — 03
02
01
00

WHERE APTT IS ARRANGED TO TEST CAMA TRUNK

IT — (IR)REL
PR1 — (PR) REL
MFC — (MFC) REL
FTC — MFR DISC — TO CAD 161
SRT1 — TO CAD 162
MTL(1), AKT — TO CAD 147
TCB — TO CAD 123
ECN — TO CAD 131
F, INC — TO CAD 154
PCR — TO CAD 165
TSK1 — TO CAD 133
UT7, UT4, UT2, UT1, UT0, TT7, TT4, TT2, TT1, TT0, HT7, HT4, HT2, HT1, HT0 — TO CAD 138

TO AUX IT TRK TST UNIT OR TDM TRK TST UNIT ON SUPL APTT FR OR REL RACK
TS(C-APTT) ON CONTROL BAY

REQUIRED FOR ACD (A&M ONLY)

CROSS CONNECT PER NOTE 302

(HGT9) 69 — 10B
68 — 8B
67 — 6B
66 — 4B
65 — 2B
64 — 2T
63 — 4T
62 — 6T
61 — 8T
(HGTO) 60 — 10T — (KHGT) REL

CLASS OF SERVICE ON CLASS UNITS AND TENS BASIS

TO APTT — CTA4 — 59 — CTA4 — TO CAD 164
TO CAD 184 — CTA4 — 58

(VFT4) 54 — 4B
53 — 2B
52 — 2T
51 — 4T
(VFTO) 50 — 6T — (KV) REL

CROSS CONNECT PER NOTE 302

(UTR1) 49 — UTR1
(UTR) 48 — UTR
(UTP1) 47 — UTP1
(UTF) 46 — UTP
(TTR1) 45 — TTR1
(TTR) 44 — TTR
(TTP1) 43 — TTP1
(TTP) 42 — TTP
(THO1) 41 — THO1
(THO) 40 — THO
39
(HTR1) 38 — HTR1
(HTR) 37 — HTR
(HTP1) 36 — HTP1
(HTP) 35 — HTP

CROSS CONNECT PER NOTE 307 — TO CAD 246
CROSS CONNECT PER NOTE 307 — TO CAD 246

TS(C-APTT) ON CONTROL BAY
MFR DISC

PART OF CAD 135

(FOR APP FIG 4,5,49,55,56, & 57)

TERMINALS SHOWN ON CAD 111

CROSS CONNECT PER NOTE 301

(THA18) 42 — THA18
(THB18) 41 — THB18
(HNA18) 40 — HNA18
(HNB18) 39 — HNB18
(TA18) 38 — TA18
(TB18) 37 — TB18
(UA18) 36 — UA18
(UB18) 35 — UB18 — TO CAD 222

34 33 32 31 30 29 28 27 26

(THA17) 25 — THA17
(THB17) 24 — THB17
(HNA17) 23 — HNA17
(HNB17) 22 — HNB17
(TA17) 21 — TA17
(TB17) 20 — TB17
(UA17) 19 — UA17
(UB17) 18 — UB17 — TO CAD 222

CROSS CONNECT PER NOTE 301

17 16 15 14 13 12 11 10

MFR DISC — MFR DISC

TS (AP3) ON CONTRO. BAY

DRAWING ISSUE: 51D GAA, 52A EN, 53D EAN, 56D, 57A, 59A JJR, 60D, 63D, 64A JES, 67D, 71D, 80D, 81A, 82D, 83A

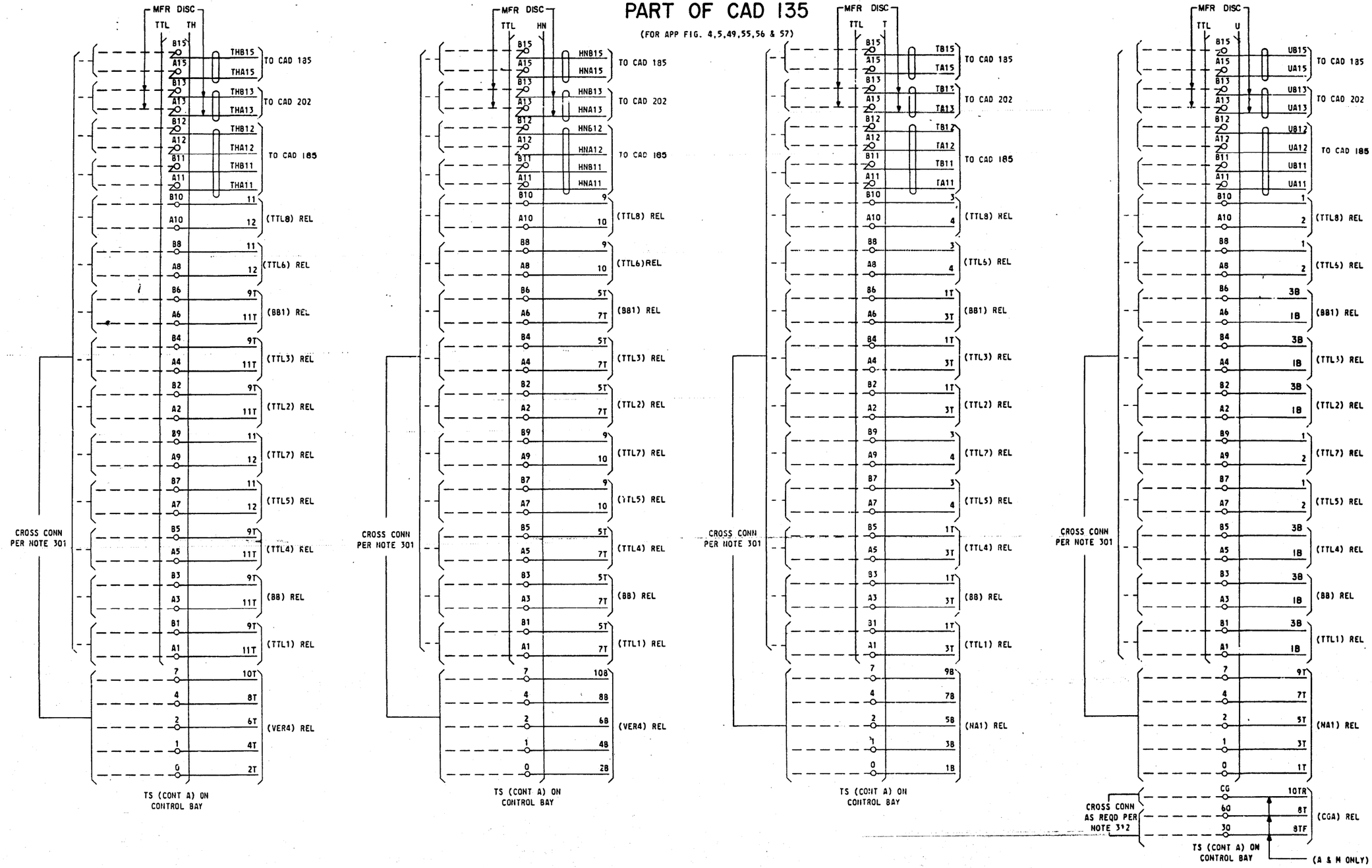
ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G25A
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G25A

PART OF CAD 135

(FOR APP FIG. 4,5,49,55,56 & 57)



DRAWING ISSUE

600	M/D	CB
51A		CB
67D	LP	CB
71D		CB

ISSUE 88D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G258

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G258

CAD 136

(FGR APP FIG. 4,5,6,9,11,49,856)

XCONN TO VG0-7 (CAD 137) PER NOTE 302 — A5 VG — VGA5 / B5 VGB5 — TO CAD 202

XCONN PER NOTE 303 — B2 B — 2T / A2 2B — (VERA) REL

XCONN PER NOTE 302 — A5 FU — FUA5 / B5 FUB5 — TO CAD 202

SPL

XCONN PER NOTE 303 — B2 A — 5T / A2 8T — (VERA) REL

XCONN PER NOTE 316 AND 302 — (KVG4) REL: VGT13 6B, VGT12 4B, VGT11 2B, VGT10 2T, VGT9 4T, VGT8 6T

(KVG3) REL: VGT7 8B, VGT6 6B, VGT5 4B, VGT4 2B, VGT3 2T, VGT2 4T, VGT1 6T, VGT0 8T

(VGU) SW: FS5 / FS2 — SECT.6; WS5 / WS4 — SECT.5

(VGT1) REL: WS3 5B, WS1 7B

TS (CONT B) ON CONTROL BAY

XCONN PER NOTE 303 — A1 A — 5T (VERIO) REL; B1 3T; A 5T (VER3) REL; B 3T

XCONN PER NOTE 303 — 0 A0 6B, 1 A1 4B, 2 A2 4T, 4 A4 6T, 7 A7 8T — (KA) REL

TO CAD 121

STRAP TO SIMILARLY DESIGNATED TERMINALS ON TS

X CONN PER NOTE 307 — THA 1B (KTN2) REL; THA1 1B (KTN3) REL; THE 1M (KTN4) REL; THG THG TO CAD 200

THT0 THT0 / THT1 THT1 — TO CAD 123

THT2 THT2 / THT3 THT3 — TO CAD 163

THG THG TO CAD 200

XCONN PER NOTE 307 — THT0 THT0 / THT1 THT1 — TO CAD 123; THA 1B (KTN2) REL; THA1 1B (KTN3) REL; THE 1M (KTN4) REL

XCONN TO HG0-7 (THIS CAD) PER NOTE 302 — HG A5 HGA5 / B5 HGB5 — TO CAD 202

SPL

MFR DISC — MFR DISC

XCONN PER NOTE 303 — B2 C — 5B / A2 8B — (VERA) REL

TS (CONT B) ON CONTROL BAY

XCONN PER NOTE 303 — A1 C — 5B (VERIO) REL; B1 7B; 4 5B (VER3) REL; 8 7B

XCONN PER NOTE 303 — 0 C0 2T, 1 C1 4T, 2 C2 6T, 4 C4 8T, 7 C7 10T — (NC) REL

TO CAD 121

XCONN PER NOTE 303 — A1 B — 1B (VERIO) REL; B1 3B; A 1B (VER3) REL; B 3B

XCONN PER NOTE 303 — 0 B0 2T, 1 B1 4T, 2 B2 6T, 4 B4 8T, 7 B7 10T — (N8) REL

TO CAD 122

STRAP TO SIMILARLY DESIGNATED TERMINALS ON TS

TS (CONT B) ON CONTROL BAY

TF — TO CAD 237

A1 TFA1 / B1 TFB1 — TO CAD 177

OMIT WHEN CALL WAITING IS PROVIDED

A TFA / B TFB — TO CAD 173

XCONN PER NOTE 304 AND XCONN TO TS (CONT D) PER NOTE 311 — 0 TF0 1T, 1 TF1 3T, 2 TF2 5T, 4 TF4 7T, 7 TF7 9T — (KTF) REL

TFA / TFB — TO CAD 225

HG — MFR DISC

XCONN PER NOTE 302 SEE CAD 106 — A2 / B2 — 1B (OTL5) REL

A1 / B1 — 3T (OTL3) REL

A / B — 1B (OTL1) REL

0 HG0 HG0 1B, 1 HG1 HG1 3B, 2 HG2 HG2 5B, 4 HG4 HG4 7B, 7 HG7 HG7 9B — (KVHG) REL

TO CAD 229

A4 FU — FUA / B4 FUB — TO CAD 184

XCONN PER NOTE 302 SEE CAD 106 — A2 / B2 — 7T (OTL5) REL

A1 / B1 — 7T (OTL4) REL

A / B — 7T (OTL1) REL

0 FU0 1B, 1 FU1 3B, 2 FU2 5B, 4 FU4 7B, 7 FU7 9B — (KFTU) REL

TO CAD 117

TS (CONT B) ON CONTROL BAY

STRAP TO SIMILARLY DESIGNATED TERMINALS ON TS

DRAWING ISSUE

51D	EN LA AP
52A	EN LA AP
53D	EN LA AP FR
54D	EN LA AP FR
59A	EN LA AP FR
60D	EN LA AP FR
74A	
76D	
79A	
80D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G26

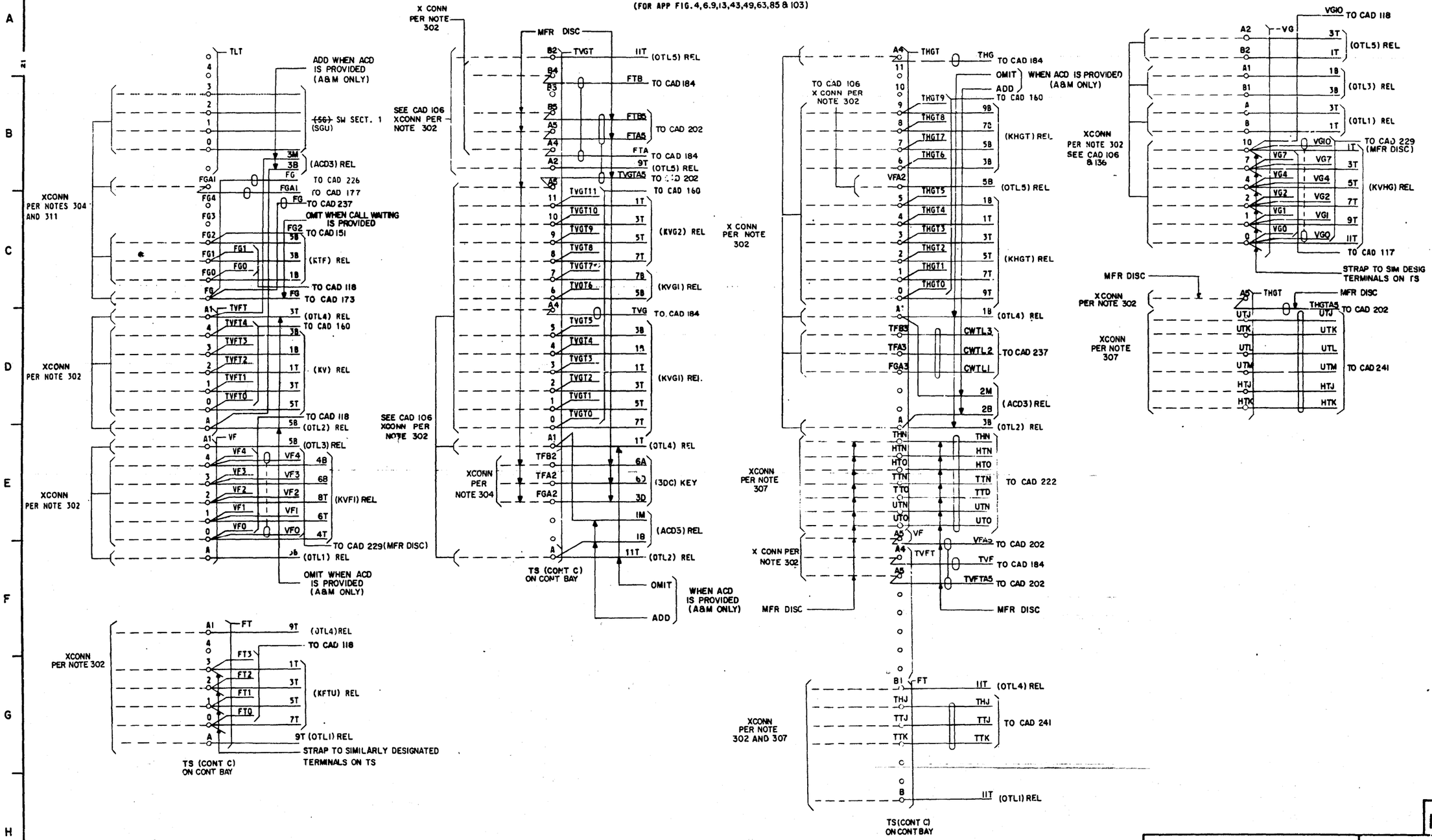
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G26

STABILO

CAD 137

(FOR APP FIG. 4, 6.9, 13, 43, 49, 63, 85 & 103)



DRAWING ISSUE	
51D	NF
53D	
60D	
62D	
64A	TJD
74A	
76D	
78D	
79A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G27

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G27

STABILO

CAD 138

(FOR APP FIG. 11,43,49,56,63,885)

UT

D1 9B
C1 11B (KTN3) REL
B1 11T
A1 9T
F 4M
E 5M (KTN4) REL
D 9B
C 11B
B 11T (KTN2) REL
A 9T
G UTG
H UTH TO CAD 200
0 UT0
0 UT0
1 UT1
1 UT1
2 UT2
2 UT2 TO CAD 124
4 UT4
4 UT4
7 UT7
7 UT7 TO CAD 134

XCONN PER NOTE 307

MFR DISC

MFR DISC

TUB

3
2
1
0 (SGU) (56) SW SECT.2

XCONN TO TS (CONT B) TS PER NOTE 311

TUA

3
2
1
0 (SGU) (56) SW SECT.1

TS (CONT D) ON CONTROL BAY

XCONN PER NOTE 307

MFR DISC

H HT HTH
G HTG TO CAD 200
F 10M
E 11M (KTN4) REL
A1 1T
B1 3T (KTN3) REL
A 1T
B 3T (KTN2) REL
0 HT0
0 HT0
1 HT1
1 HT1
2 HT2
2 HT2 TO CAD 124
4 HT4
4 HT4
7 HT7
7 HT7 TO CAD 134

MFR DISC

H TT TTH
G TTG TO CAD 200
F 7T
E 9M (KTN4) REL
A1 5T
B1 7T (KTN3) REL
A 5T
B 7T (KTN2) REL
0 TT0
0 TT0
1 TT1
1 TT1
2 TT2
2 TT2 TO CAD 124
4 TT4
4 TT4
7 TT7
7 TT7 TO CAD 134

TS (CONT D) ON CONTROL BAY

XCONN PER NOTE 305

MFR DISC

0AP
0AT
0BP
0BT TO CAD 165
0AE
0BE
56,29 (OFF29)
46,28 (OFF28)
36,27 (OFF 27)
26,26 (OFF 26)
16,25 (OFF 25)
55,24 (OFF 24)
45,23 (OFF 23)
35,22 (OFF 22)
25,21 (OFF 21)
15,20 (OFF 20)
54,19 (OFF 19)
44,18 (OFF 18)
34,17 (OFF 17)
24,16 (OFF 16)
14,15 (OFF 15)
53,14 (OFF 14)
43,13 (OFF 13)
33,12 (OFF 12)
23,11 (OFF 11)
13,10 (OFF 10)
52,9 (OFF 9)
42,8 (OFF 8)
32,7 (OFF 7)
22,6 (OFF 6)
12,5 (OFF 5)
51,4 (OFF 4)
41,3 (OFF 3)
31,2 (OFF 2)
21,1 (OFF 1)
11,0 (OFF 0) (OFU) SW

TS (MISC K) A & M ONLY ON CONTROL BAY

TS (CONT E) ON CONTROL BAY

CAD 139

(FOR APP FIG. 11,57 & H)

XCONN PER NOTE 320

63
62 (PC) 13T (PC) REL
61
60
59
58
57
56 (TAN) 13T (TAN) REL
55
54
53
52
51
50 (TOL) 13T (TOL) REL
49 (PCDIB)
48 (PCDB)
47 (PCRB)
46 (INCB)
45 (TOLB)
44 (TANB4)
43 (TANB3)
42 (TANB2)
41 (TANB1)
40 (TANB)
39 (PCDIA)
38 (PCDA)
37 (PCRA)
36 (INCA)
35 (TOLA)
34 (TANA4)
33 (TANA3)
32 (TANA2)
31 (TANA1)
30 (TANA)

SECT. 2
SECT. 3
(ICL) SW

TS (CONT E) ON CONTROL BAY

DRAWING ISSUE	
510	UHT LW AMP
560	LPM
630	CM
74A	

ISSUE 88D

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G28

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G28

STABILO

CAD 140

(FOR APP FIG. 14,20,27,53,54,56,57,82,& 86)

TO CENTREX CONF CKT TC

POS 43 — (TST CNSL) KEY

TO TST POS & POS LP CKT

CA 42 — (TST CNSL) KEY

CB 41 — (CB)LP

MFR DISC.

CI 40

TO POS & POS LP CKT CI

STI 39

TO TST POS & POS LP CKT

ST 38 — (TST CNSL) KEY

TO ATT TRK CKT FOR L LK ATT TRUNKS ONLY TTK 37 — TTK TO CAD 188

TO POS LINK CKT PLTO 36 — 4B (PLTO)REL

LT8 35

(POS LOOP) SW

TO POS & POS LP CKT

LT1 30

LB 29 — (LB)LP

PO 28 — (PO)LP

PRDY 27 — (TST CNSL) KEY

GT1 26 — (ANY POS) KEY

TO ATT TRK CKT

GT 25 — 2M

LT 24 — 2B

CROSS CONNECT TO ATTENDANT TRK

TT HMDF 23 — IL OR U (FDLP)REL

CA 22 — 6M

PS 21 — 6B

TR 20 — 4M,12M (PRDY)REL

TO POS LINK CKT

PTM19 19

(POSU) SW ~~(POS)~~

PTM00 00

TS (CONT F) ON CONT BAY

TO CAD 220A KR6 — (KR)LP

TO CAD 244 MTCP2 — 2B (OI2) KEY

MTCP1 — IB (AIDT) REL

TO CAD 214 PR — 8TF (PR)REL

WITH 101 ESS CONTROL UNIT

MFR DISC

WITH CONVENTIONAL PBX

5T (AIDT)REL

2B (MTCP)REL

3B (OFT2)KEY (OT2) KEY

3A (OFTI)KEY (OTI) KEY

1A

2B (CON)REL (CONA)KEY

TO AIOD TRANSLATOR CKT ON MISC RR FR

TOG 69

TOF2 68

TOFI 67

TOFO 66

TO CAD 193 18A 65

TO POS & POS LP CKT SPBL 64 — (SPBL)LP

TO CAD 195 16A 63 — (FCGA) KEY

TO TST INC TRK CKT ON RR FR ST 62

TO T-LL FR HAVING APP OF INC TRK ARR FOR TST ST 61

(LLAT) KEY

5B 60 — (DAT) KEY

TO CAD 188 4B 59 — (ATT) KEY

TO CAD 184 DTF 58 — (TI) KEY

5B 57 — 1T (SRTI) REL

4B 56 — 10B (TKTI) REL

55 SHOWN ON SD-25918-01

TO CAD 185 TRTT 54 — TO CAD 167

2B 53 — 6B (SRT1) REL

1B 52 — 10B (ORT) REL

8 51 — 2B (4WA) REL

7 50 — 9T (MC4) REL

6 49 — 5T (4WB) REL

TO CAD 184 5 48 — 7T (NTB) REL

4 47 — 2T (4WB) REL

3 46 — 2T (LK1) REL

2 45 — (4WB) REL OR (NTCI) REL

1 44 — 2C (NTC) KEY

TO CAD 222 WBNT

NTC

CUT STRAP WHEN CENTREX DIAL TRFR TEST UNIT PROVIDED

WHEN WIDEBAND SERVICE IS PROVIDED

OMIT

ADD

TS (CONT F) ON CONT BAY

DTI 6A

TO CAD 221 DTF 4A — (TI) KEY

AOTI 1D — (ATT) KEY

MFR DISC

SWBD CA OR LC

CAD 141

(FOR APP FIG. 3 & 86)

NS 33 — 2B

LS 32 — 1B (N)REL

HMDF 1W

LS — SHOWN ON LINE, LINE LK & CONN CKT (TERM. TST LINE)

NS — SHOWN ON NO. GRP CKT (TERM. TST LINE)

31 SHOWN ON SD-25918

TO CAD 195 1A 29 — (FCGB) KEY

28

27

26 SHOWN ON SD-25918

25

24

23

22

21

20

TO CAD 195 2A 19 — 3T (LHMA) REL

TO MTF RST BAY TRIC 18 — (TRT) KEY

ATTI 17 — (ATT) KEY

16 (A&M ONLY)

15

14

13

12 SHOWN ON SD-25918

11

10

9

8

7

TO CAD 195 3A 6 — 5T (CON) REL (CONA) KEY

MFR DISC.

5

4

3

2

1

SHOWN ON SD-25918

TS (CGS) ON CONT BAY

TO CAD 220 N2 — 9B (NI) REL

TO CAD 244 REP3 — 3D (REP) REL

REP2 — 12T (NI) REL

TO CAD 244 REP1 — 13T

(A&M ONLY) MFR DISC.

TO CAD 184 4A 69

3A 68

2A 67

1A 66 — (DTF) KEY

NCSL, NATT 65 — 3B (NCSL) KEY 3B (NATT) KEY

CBL, DAT2 64 — 3A (CSL) KEY (DAT) KEY

TO MTF RST BAY RT5, TI 63 — 3A (RTRF) KEY (TI) KEY

RT4, MAN 62 — 3D (RTRF) KEY 3C (NATT) KEY

T5 61 — 3C (TRF) KEY 3B (5DG) KEY

T4 60 — 6C (TRF) KEY (4DG) LP

TO CAD 190 KR 59 — (DAT) LP

DAT 58 — 9T (FC) REL

FC1 57

DTF 56 — (DTF) LP

TO CAD 184 FC 55 — 7T (FC) REL

KR 54 — 10B (KR) REL

CSGB 53 — 1D (CSGB) KEY

DTR1 52 — 3D (DTF) KEY

DTR 51 — 6T (OR) REL

DT1 50 — 6B (MC4) REL

TO CAD 194 KR 49 — 12B (4W) REL

TO CAD 195 10B 48 — 3B (MC4) REL

HGK 47 — 4T (HGK) REL

TO CAD 184 HGK1 46 — 1B (VGA) REL

VGA1 45 — 13T (MC7) REL

TO CAD 195 21A 44 — 4B (VGA) REL

VGA 43 — 4T (KVG2) REL

TO CAD 184 KVG 42 — 9T (SRT1) REL

OTL 41 — 3D (KCS) KEY

DTR 40

TO CAD 256 DTI 39

OMIT WHEN CNTX DIAL TRANSFER PROVIDED

WHEN ETS IS PROVIDED OMIT 38

ADD 37

CUT STRAP WHEN CENTREX DIAL TR TST UNIT PROVIDED

TO CAD 202 HGK 36

OTL9 35 — SHOWN ON SD-25918

102 34

TO CAD 190 CATN4

MFR DISC

TS (CGS) ON CONT BAY

TO CAD 222 N 1T — (N) REL

FC 4B — (FC) REL

MFR DISC

DRAWING ISSUE

51D	RS LW 4WD
52A	NF LW 4WD
53C	TEM DNC ANC
54B	CAN DNC ANC
56D	MS DTM ANC
57A	DNC ANC
58D	ANC
59A	ANC
60D	DTM
62D	ANC
66A	ANC
70A	ANC
71B	ANC
72A	ANC
73D	
74A	
78D	
80D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-029

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-029

STABILO

CAD 142

(FOR APP FIG.1,2,3,9,14,19,20, 24,28,36,39,52,81,120,171,B,F,L&M)

TO MISC CKT ON ASSOC MKR FR

CUT STRAP WHEN LINE IDENT TEST UNIT IS PROVIDED

A&M ONLY

TO CAD 109

TO CAD 177

TO CAD 188

TO MISC CKT ON ASSOC MKR FR

MFR DISC.

TO CAD 170

SHOWN ON SD-25918-01

TO AMRST CKT

TO INC REL & CAMA SDR TEST CKT

TO CAD 165

TO MTC CKT

CAD 154

NEITHER APTT OR LVT PROVIDED

TO CAD 241

TO CAD 108

SHOWN ON SD-25762-01

TO CAS-ETS CKT

TO ROTC CKT OR TO ROTL ACCESS CKT

TO CAD 201 (MFR DISC) OR TO CAD 214

TO CAD 220A

TO AMRST CKT

TO LVT

TO CAD 153

TO CAD 2208 (FOR ETS-CAMA)

TO MTC CKT

TO TRK TST REG CKT

TO CAD 244

TO DAS CKT OR DAS ETS (FOR LAMA-C/SCC)

TS(MISC D) MFR DISC. OR TS (D) ON CONTROL BAY

ADD WHEN LAMA-C/SCC OR ETS-CAMA IS PROVIDED

OMIT

TO CAD 149

TO CAD 222

TO CAD 204

TO CAD 245

TO CAD 250

TO CAD 254 (FOR ETS-CAMA)

LC

LW OR LC

(MTU) (MT) SW SECT. 4

(MTU) (MT) SW SECT. 5

(MT) SW SECT. 1 (MD)

(MTO) KEY (A&M ONLY) OR (MT11) KEY

(TGTS) KEY OR (ACDI) REL (MFR DISC) OR (LLS) REL OR (WROR) KEY OR (PT) REL

(MT11) KEY (MD)

(MT10) KEY (MD)

(MC3) REL

(PC2) REL

(MT9) KEY (MD)

(MT8) KEY (MD)

(MT7) KEY (MD)

(MT6) KEY (MD)

(MT5) KEY (MD)

(MT4) KEY (MD)

(MT3) KEY (MD)

(MT2) KEY (MD)

(MT1) KEY (MD)

(MTO) KEY (MD)

(4W8) REL

(KR1) REL

(MTT) REL

(NTC) REL

(NTB) REL

(SDR2) REL

(KTS) REL

(MC) REL

(VER2) REL

(MC3) REL

(MRL) REL

(TM) OR (DISI) REL

(VER2) REL

(CAM) REL

(REC) REL

(LAMC) DIODE 1B (MC5) REL

(LAMC) DIODE

(ITNP) REL

(CKG) REL

(PC2) REL

(MFC1) REL

(MC3) REL

(MC2) REL

(MC3) REL

(LAMC) OR (TCPO) KEY

(LAMC) KEY

TS(MISC D) MFR DISC. OR TS(D) ON CONTROL BAY

SHOWN ON SD-25572-01

TO CAD 254

TO CAD 214

(MC5) REL

(ROTP) OR (TTRP) OR (AREP) OR (WTRP) REL

TO CAD 218A

TO CAD 185

TO CAD 246

MFR DISC

(MC4) REL

TO CLVA CKT OR ETS-PDI CKT

TO LINE VERIFICATION TST CKT

TO JACK, LAMP & KEY CKT FOR ASSOC GRP (MTF JK BAY)

TO TRK TEST REG CKT

TO CAD 185

TO CAD 210

(LVP) REL

(OSGO-11) REL

(TTRP) REL

(WSD) REL

(TKS) REL

TO ROTL CKT OR ROTL REG CKT OR TO MTF CONN CKT

(ROTP) REL

TO CAD 222

TO CAD 170

TO MISC CKT ON ASSOC MKR FR

(ATTP) REL

(LVP) REL

(MTU) SW SECT. 4

DRAWING ISSUE	
51D	OS LW ABD
52A	OS LW ABD
56D	MS LPM ABD
57A	MS LPM ABD
58D	LPM ABD
63D	WS XLP GKD
64A	WS XLP GKD
65D	SCK LA ABD
67D	XP
68A	XP
70A	RF
71D	RJF
74A	
76D	
78D	
80D	
81A	
82D	

ISSUE 106B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G30

BELL TELEPHONE LABORATORIES INCORPORATED

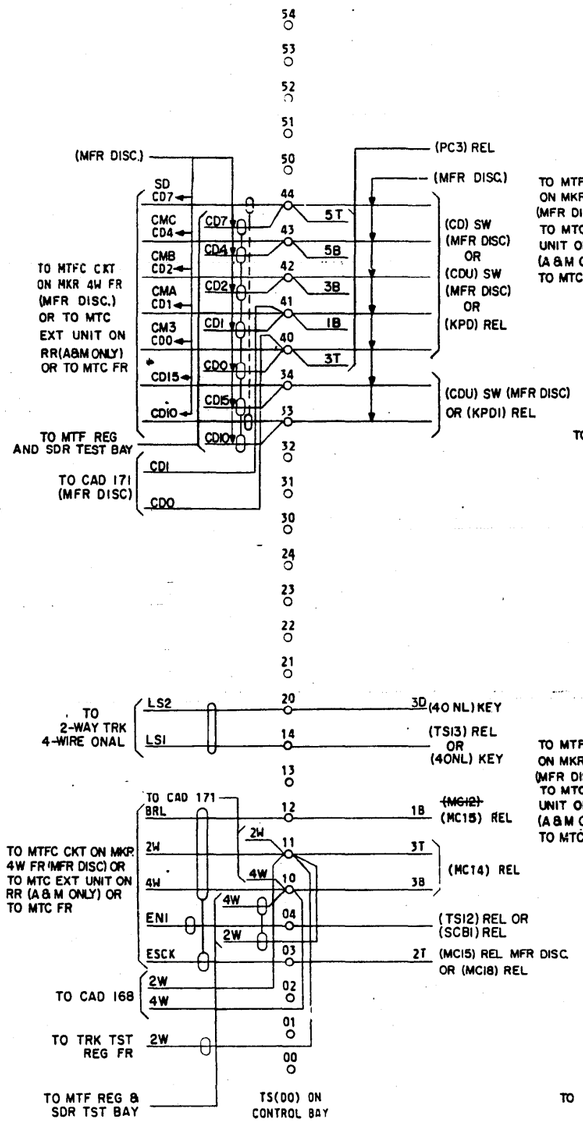
6S

SD-25800-01-G30

STABILO

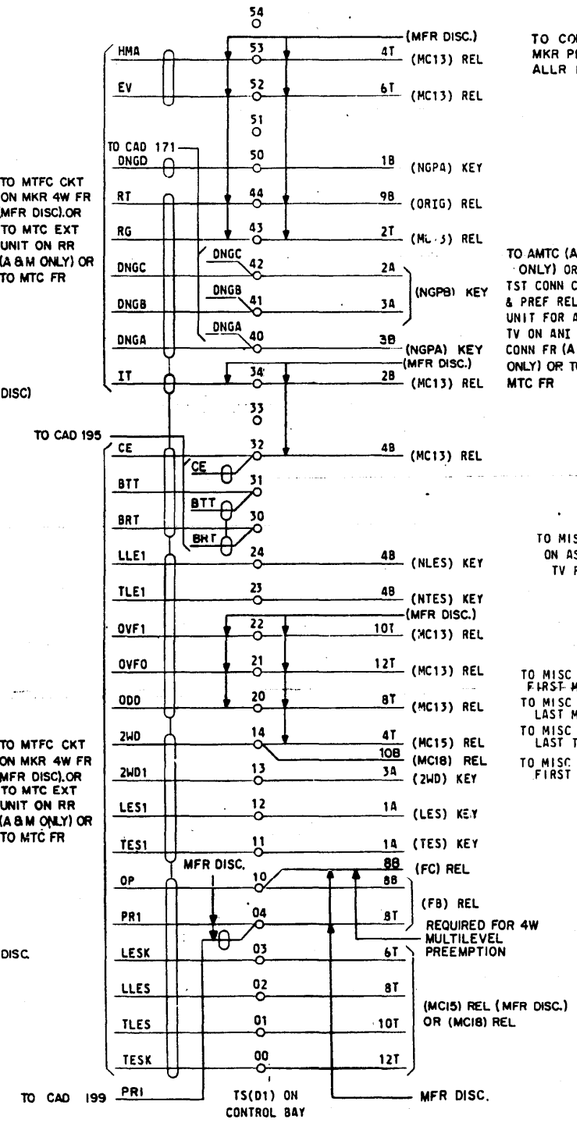
CAD 143

(FOR APP FIG.1, 15, 49, 95, 96, 112 & F)



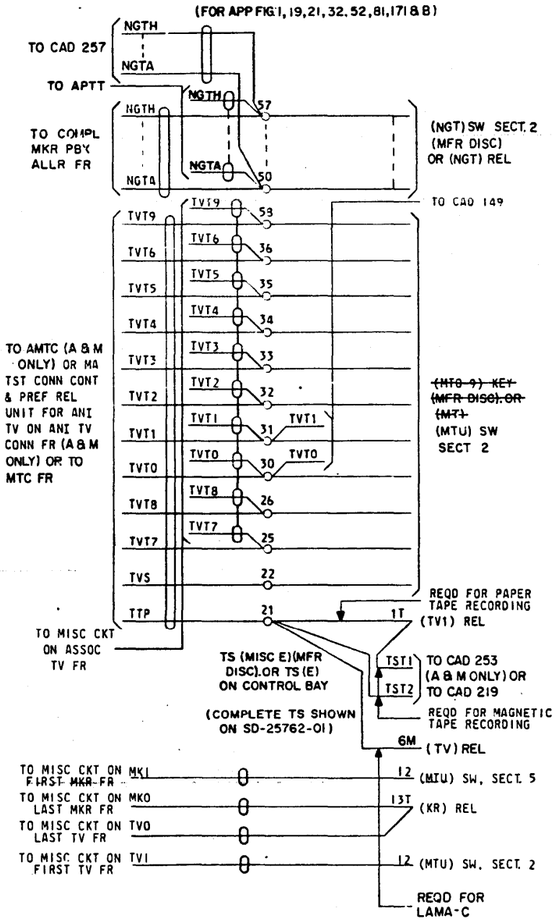
CAD 144

(FOR APP FIG. 1, 2, 13, 49, 51 & 76)



CAD 145

(FOR APP FIG.1, 19, 21, 32, 52, 81, 171 & 8)



DRAWING ISSUE

51D	FMS LW
52A	FMS LW
56D	FMS
57A	FMS
58D	LEN
61A	JR
62D	JR
63D	TJD
67D	
73D	
76D	
77A	
80D	
82D	

ISSUE 98B

SD-25800-01-G31

STABILO

MASTER TEST CONTROL CIRCUIT (2)		SD-25800-01-G31
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S	PRINTED IN U.S.A.

CAD 146
(FOR APP FIG.36)

49 08 06 — SHOWN ON SD-25918-01

45 35 25 15 05 — SHOWN ON SD-25762-01

TO JACK LAMP & KEY CKT FOR ASSOC GRP (MTF JK BAY)

SEE NOTE 1

MBB9	43	5T
MCB8	33	5T
MBB7	23	5T
MBB6	13	5T
MBB5	03	5T
MBB4	42	5T
MBB3	32	5T
MBB2	22	5T
MBB1	12	5T
MBB0	02	5T
MBA9	41	2T
MBA8	31	2T
MBA7	21	2T
MBA6	11	2T
MBA5	01	2T
MBA4	40	2T
MBA3	30	2T
MBA2	20	2T
MBA1	10	2T
MBA0	00	2T

(OSGO-11) REL

TS(MISC F) MFR DISC.OR TS (F) ON CONTROL BAY

TO MTF RST BAY — RVTK — 59 — 12T — (TKT1) REL

58 57 56 55 54 53 52 — SHOWN ON SD-25918-01

51 50 48 47 46 44 — SHOWN ON SD-96410-01

39 38 37 36 — SHOWN ON SD-25918-01

34 — SHOWN ON SD-96410-01

29 28 27 26 — SHOWN ON SD-25918-01

24 — SHOWN ON SD-96410-01

19 13 17 16 — SHOWN ON SD-25918-01

14 — SHOWN ON SD-96410-01

9 7 — SHOWN ON SD-25918-01

4 — SHOWN ON SD-96410-01

TS(MISC F) MFR DISC.OR TS (F) ON CONTROL BAY

TO AUTO. MON REG AND SDR TEST

SEE NOTE 1

OG7	99		
OG4	98	SECT.2	(CNG) SW
OG2	97		
OG1	96		
OG0	95	SECT. 1	
OF7	94		
OF4	93	SECT. 2	(CNF) SW
OF2	92		
OF1	91		
OF0	90	SECT. 1	
OE7	89		
OE4	88	SECT. 2	(CNE) SW
OE2	87		
OE1	86		
OE0	85	SECT. 1	
OD7	84		
OD4	83	SECT. 2	(CND) SW
OD2	82		
OD1	81		
OD0	80	SECT 1	
OCA7	79		
OCA4	78	SECT. 2	(CNC) SW
OCA2	77		
OCA1	76		
OCA0	75	SECT. 1	
OB7	74		
OB4	73	SECT. 3	(CNB) SW
OB2	72		
OB1	71		
OB0	70	SECT. 1	
OA7	69		
OA4	68	SECT. 2	(CNA) SW
OA2	67		
OA1	66		
OA0	65	SECT. 1	
TVT2	64	LC 1B	PROVIDE ONLY WHEN ANI IS PROVIDED
TVK	63	TVT2(A) 4T	(ATV)REL TO CAD 149
TTK	62	TVK(A) 7T	(ATV)REL TO CAD 149
SDT2	61	48	(ATV)REL
SDT1	60	78	
TVK			
TTK			

TO ANI TV FR O OR PROGRAM CONTROLLED TRANSVERTER CKT

TO APTT FR FOR ANI

TS(MISC F) MFR DISC.OR TS (F) ON CONTROL BAY

NOTE 1. (A) WHEN OFFICE IS ARRANGED FOR AUTOMATIC CALL DISTRIBUTOR, DISCONNECT THE LOCAL CABLE ON PUNCHINGS 60 -99 OF THE (F) TS AND CONNECT PER CAO 217.
(A&M ONLY) (B) DISCONNECT THE LOCAL CABLE ON PUNCHINGS 00-43 OF THE (F) TS AND CONNECT PER CAD 252.

DRAWING ISSUE

51D	OS LW AME
53D	GLA TRA AND
55A	GLA CNB AND
56D	TRA CNA AND
65D	TAK L & AND

ISSUE 95A

MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-G32

6S

SD-25800-01-G32

STABILO

CAD 147

FOR APP FIG.7,11,31,38,52,81,J56,F,&H

TO SENDER LINK CKT ASSOC WITH REVERTIVE SENDERS — SC 29 9T; HM 28 6T — (PCR) REL

TO SENDER LINK CKT ASSOC WITH REVERTIVE SENDERS — D 26 11B; AB 25 6B; R 24 4B; T 23 4T — (PCR) REL

TO AMRST CKT — TT 22 — (FVOT) KEY (A&M ONLY) OR (TRNA) SW

TO AMRST CKT — LT 21 — (IC) SW (MFR) DISC) OR (TRNA) SW

TO AMRST CKT — 2DT 20 — (2DT) KEY (A&M ONLY) OR (TRNA) SW

TO SENDER LINK CKT ASSOC WITH 2ND GROUP OF DIAL PULSE SENDERS — SC 19 8T; HM 18 6T — (PCD1) REL

TO MTC CKT — AKT 17 4TK — TO CAD 134

TO SENDER LINK CKT ASSOC WITH 2ND GROUP OF DIAL PULSE SENDERS — D 16 11B; AB 15 6B; R 14 4B; T 13 4T — (PCD1) REL

27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10

SHOWN ON SD-25918

TO SENDER LINK CKT ASSOC WITH 1ST GROUP OF DIAL PULSE SENDERS — SC 09 8T; HM 08 6T — (PCD) REL

TO MTC CKT — MTL(1) 07 MTL(1) — TO CAD 134

TO SENDER LINK CKT ASSOC WITH 1ST GROUP OF DIAL PULSE SENDERS — D 06 11B; AB 05 6B; R 04 4B; T 03 4T — (PCD) REL

TO CAD 210 — TSE 02 3B — (MC5) REL

TO ORIG OR DIGIT REG CKT — H 01; ON 00 11T — (ORT) REL

TS (G) ON CONTROL BAY — ORT; ON — TO CAD 250

ADD; OMIT — WHEN ACD WITH TV IS PROVIDED

TO CAD 210 — IRPTO 5B (PTRI) REL; PC2 6B (PC2) REL; PST (PST) RES; PTI 2T (PTI) REL; GR 6 (GR) REL; CMCO 1T (CMC) REL; CMCI 2T (CMC) REL; PTI 7B (PTI) REL — LC

TO ORIG REG — BS 59 2T — (XMA) REL

TO LINE VERIF TEST CKT — LHC 58 LHC — TO CAD 156

TO AMRST CKT — TOL4 57 1B; TOL3 56 4B; TOL2 55 7B; TOL1 54 1T — (TCBT) REL

TO PRTO (A&M ONLY) OR MTC CKT — PTT2 53 3; PTT1 52 2; PTTO 51 1; PTS 50 11 — (MTU) SW SECT. 3

TO MTC CKT — STR 49 STR; MKS(1) 48 MKS(1); LVP(1) 47 LVP(1); TS(C) 46 TS — TO CAD 171

TO AMTC (A&M ONLY) OR MA TEST CONN CONT & PREF REL UNIT FOR ANI TV ON ANI TV CONN FR (A&M ONLY) OR TO MTC CKT — TVS 45 TVS; LTP 44 LTP

43 11T (MC7) REL

TO PRTD (A&M ONLY) OR TO MTC CKT — PTP 42 1T (PT) REL; SD 41 5T; CM3 40 3T — (PC3) REL

TO MTC CKT — CMC 39 5B; CMB 38 3B; CMA 37 1B — (PC3) REL

TO CAD 210 — KRI — A&M ONLY

PTR 36 3B (PC2) REL; PCK 35 1B; RLK 34 9B (PC1) REL; PRL 33 7B (PC1) REL

TO PRTD (A&M ONLY) OR TO MTC CKT — HD 32 5B (PC1) REL; GR 31 3B (PC1) REL; GIT 30 1B (PC1) REL

TS (G) ON CONTROL BAY

TO MTF CONN CKT — PTT4 5; PTT3 4 — (MTU) SW SECT. 3

TO MTC CKT FOR INC REG PRT CONN CONT — PTT7 7; PTT6 6; PTT5 5 — (MTV) SW SECT. 3

CAD 148

(FOR APP FIG.15)

STRAP PER NOTE 206 B — TI 73; 72 — (CJ2) RES

STRAP PER NOTE 206 A — TJ 71 (CE) RES; 70 (CE1) RES

TS (H) ON CONTROL BAY

(COMPLETE TS SHOWN ON SD-25988)

TO CAD 210 — CMC 4T; CMC2 3B; CMC3 5T — (CMC) REL

TO CAD 210 — IRPT2 10B (PC1) REL; IRPT3 1B (RLK) KEY; IRPT4 2B (PRL) REL; IRPT5 11TR (PRL) REL

TO MTC CKT — CMK 12T (PC2) REL; CMK 11T; IRL 9T (PC1) REL

TO CAD 210 — IRL 1D (RLO) KEY

TO CAD 221 — LHMT (LHMT) RES; LLJ (LLJ) RES; TLH (TLH) RES

LC OR SWBD CA

MFR DISC

CAD 149

TS(MISC)A&M ONLY AT TOP OF FR

TO LVT CKT IF PROVIDED OR TO CLVA OR ETS-PDI CKT — OFT2 22,106 OFT2; OFT1 12,105 OFT1; OFTO 51,104 OFTO; OFF9 41,103 OFF9; OFF8 31,102 OFF8; OFF7 21,101 OFF7; OFF6 11,100 OFF6 — TO CAD 159

TR 99 TR — TO CAD 108; TO CAD 151

ITR 98 ITR — TO CAD 68

A&M ONLY

TLV 97 TLV — TO CAD 142

OF 96 OF; TSL 95 TSL; TIK 94 TIK — TO CAD 151

TO LVT CKT — MRL 93 MRL — TO CAD 129; TO CAD 109

TO LVT CKT IF PROVIDED OR TO CLVA OR ETS-PDI CKT — TRL 92 TRL — TO CAD 127; TRK/ITR 91 TRK — TO CAD 128

TO LVT CKT — BT 90 BT — TO CAD 123; MO1 91 MO1 — TO CAD 161

TO LVT CKT IF PROVIDED OR TO CLVA OR ETS-PDI CKT — MOA 90 MOA — TO CAD 151

PROVIDE ONLY WHEN AMA OR COMBINED AMA-ANI IS FURNISHED

TVK 66 TVK — TO CAD 116; TVK(A) TO CAD 133 (MFR DISC.) OR CAD 146

TVT2 65 TVT2 — TO CAD 116; TVT2(A) TO CAD 133

PROVIDE ONLY WHEN ANI IS FURNISHED

TO LVT CKT — CGB 64 CGB; CGA 63 CGA; MT19 61 MT19; MT10 60 MT10 — TO CAD 156

TM 48 TM — TO CAD 109; TO CAD 142

MTIK 39 MTIK — TO CAD 161

TO LVT CKT IF PROVIDED OR TO CLVA OR ETS-PDI CKT — TVT1 38 TVT1; TVTO 37 TVTO — TO CAD 145

MKT1 36 MKT1; MKTO 35 MKTO — TO CAD 142

TO CAD 108 (MFR DISC.)

OMIT WHEN NEW NUMBER PLAN IS PROVIDED

MFR DISC

TS (J) ON CONTROL BAY

(COMPLETE TS SHOWN ON SD-25675)

DRAWING ISSUE

51D	GAV LLM AMM
52A	GAV LMM AMM
54B	EJM TMM AMM
57A	DFT TMM AMM
61A	DFT AAM AMM
62D	DFT AAM AMM
63D	DFM RFT AMM LPT JJB TMM
66A	JJB TMM
68A	JJB
71D	TMM
76D	
78D	
80D	
82D	

ISSUE 102B

SD-25800-01-G33

STABILO

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G33

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CAD 150
(FOR APP FIG. 44 & 45)

TO MTF AM (MFR DISC)

(CNE) SW SECT 1 & 2 (A & M ONLY) OR SECT 3 & 4

(CND) SW SECT 1 & 2 (A & M ONLY) OR SECT 3 & 4

(CNB) SW SECT. 1 & 2 (A & M ONLY) OR SECT. 3 & 4

TO AMTC (A & M ONLY) OR TO MTC FR

(CNB) SW SECT. 1 & 2 (A & M ONLY) OR SECT. 3 & 4

(CNA) SW SECT. 1 & 2 (A & M ONLY) OR SECT. 3 & 4

TS (K) ON CONT BAY

49 ← SHOWN ON SD-25918-01

ROPT 48 — (ROP) KEY

PRLT 47 — 3B

SK1 46 — 12B — (MC10) REL

SKO 45 — 10B

TO AMTC (A & M ONLY) OR TO MTC FR

TI3 44 — (TI3) KEY

TI2 43 — (TI2) KEY

TI1 42

TIO 41 — (TI1) KEY

TRIT 40

OFT — 2T — (CAM7) REL

39 / 38 / 37 / 36 — SHOWN ON SD-25918-01

PRLK 35 — 4B — (MC10) REL

OG7 34

OG4 33

OG2 32

OG1 31

OG0 30 — (CNG) SW SECT. 1 & 2 (A & M ONLY) OR SECT. 3 & 4

TO AMTC (A & M ONLY) OR TO MTC FR

OF7 29

OF4 28

OF2 27

OF1 26

OF0 25 — (CNF) SW SECT. 1 & 2 (A & M ONLY) OR SECT. 3 & 4

TS (K) ON CONT BAY

TO MTF AM (MFR DISC)

CAD 151
(FOR APP FIG. 6, 13, 16, 17, 20, 24, 41, 46, 48, 58, 64, 86, 125, 126, 133, 134, 171, 8 & X)

TO LVT IF PROVIDED OR TO ETS-PDI CKT

PROVIDED WHERE THE OFFICE IS EQUIPPED WITH MORE THAN TEN SENDER GROUPS

OSG11 — 29 — 12M

OSG11 — 28 — 11M — (KOSA) REL

OSG10

TO MTC

T — 27 — 9

R — 26 — 10 — (MCI7) REL

MFR DISC.

TO CAD 189 — LIDE — 25 — 2A — (IDO) KEY

TO CAD 185 — TSI — 24 — 12T — (NTH) REL

TO SUPL TRK TST UNIT G (RR FR) — TET — 23 — 12B — (TVT) REL

TO AMTC (A & M ONLY) OR TO MTC FR

ST2 — 22 — 3B

ST1 — 21 — 3M — (LLS) REL

OF — TO CAD 149

OF — 20 — 4T — (TV4) REL

TO CAD 234 — WRA3 — AICT — TO CAD 245

TO COMPLETING MKR COM EQPT FR — MT23 — 19 — 6C — (DL 4) KEY

MFR DISC

TO CAD 201 (MFR DISC) OR CAD 214 — 208 — 18 — 1B — (MTT) REL

TO AUTOMATIC PROGRESSION TRUNK TEST CKT — MT23 — 17 — 102 (MFR DISC) — 7B — (OTLI) REL

TO CAD 202 — VGA — 16 — 139 — 8B

OTL2 — 15 — 6B — (OTL2) REL

TO DAS ETS — AIS

MFR DISC.

IOD — 14 — 6B

NID — 13 — 8B — (KTV) REL

TO MTC — AOS — 12 — 10B

CAM — 11 — (CAM) KEY — TO CAD 149

TSL — 10 — TSL — 11B

RLA — 09 — 9B — (MC8) REL

RK — 08 — 6T — (RC2) REL

MOA — 07 — MOA — 5T — (MC8) REL

TRA — 06 — TRA — TRR/TRA — TO CAD 154 — TO CAD 161

TO AMTC (A & M ONLY) OR MA TST CONN UNIT FOR ANI TV ON ANI TV CONN FR (A & M ONLY) OR TO MTC FR

ANI PROVIDED — DIST — 05 — 1T — (ATLV) REL

7T — (TV3) REL

ANI NOT PROVIDED

MC — 04 — MC — 2T — (TVT) REL

9 — (TV2) REL

OP1 — 03 — 2B

TNO — 02 — 12T — (TVT) REL

TOP — 01 — 10T

TIK — 00 — TIK — 5B — TO CAD 149 (MC8) REL

DIST

TO CAD 218 — MC

TS (L) ON CONT BAY

REQD FOR LAMA-C

REQD FOR PAPER TAPE RECORDING

OMIT WHEN MAGNETIC TAPE RECORDING PROVIDED

REQD FOR MAGNETIC TAPE RECORDING

LC

AISO — 2A

TO MASTER TEST FRAME TRUNK TEST CIRCUIT — AIS1 — 3A

AIS2 — 5A — (AIS) KEY

AIS3 — 6A

TO MTF TRK TST CKT ON MTF CONT BAY — STL — IM — (LLS) REL

LC

TO CAD 218 — DCN — 6B — (ASDR) REL

TO MTC — RNT20 — 30 — (RNT2) KEY

TO TRANSLATOR ACCESS CKT — TVK — TVK — TO CAD 116

TO CAD 244 — MTCP5 — 59 — 5T — (CAM4) OR (ATV) REL (A & M ONLY)

TO MTC — RCY — 58 — 7B — (MC18) REL

TR — 57 — TR — 2T — (CAM5) REL

TO AMTC (A & M ONLY) OR MA TST CONN UNIT FOR ANI TV ON ANI TV CONN FR (A & M ONLY) OR TO MTC FR

TIC — 56 — 8B — (RC2) REL

2T — (CAM7) REL

OFT — 55 — 7T — (TV4) REL

CI-FAT — 54 — 8T — (TVT) REL

DTK1 — 53 — 12T — (RC2) REL

CX — 52 — 4B — (RC1) REL

TO LVT IF PROVIDED OR TO ETS-PDI CKT — 2LN — FTT5 — 51 — FTT5 — 11B

FTT4 — 50 — FTT4 — 11T — (KV1) REL

TO MTC — RIP — 49 — 11T — TO CAD 153 (KLT) REL A&M ONLY

2LN — 48 — 9T — (KTBS) REL

CSW — 47 — 11B — (KRS) REL

TO LVT — CSW — 46 — (FCGB) KEY

TO MTC — TSM — DTF — 45 — LC OR SWBD CA — (WBCX) OR (TI) KEY

TO MTF RST BAY — DTF — CI-4T — 44 — 10B

TO AMTC (A & M ONLY) OR TO MTC FR — CI-3T — 43 — 8B

CI-2T — 42 — 6B — (TVT) REL

CI-1T — 41 — 4B

TO MTF RST — FG2 — FG2 — TO CAD 108

TO MTC — FG2 — 40 — FG2 — TO CAD 137

TO TRK TST REG FR — FG2

TO MTC FR OR (A&M ONLY) TO MTC-GO RELAY UNIT (RR) — ODT/RNTO — 39 — (AD) KEY MFR DISC OR (OD) KEY

AD/RNT1 — 38 — (AD) KEY

DNC — 37

WKC — 36 — (DNC) KEY

LCD2 — 35 — (LCD2) KEY

TO AMTC (A & M ONLY) OR TO MTC FR — LCD1 — 34

LCD0 — 33 — (LCD1) KEY

FC — 32 — (FC) KEY

VTC — 31 — (VTC) KEY

ACD — 30 — (ACD) KEY

PROVIDE FOR CAMA AND/OR CONFIRMATION SIGNALING (A&M ONLY)

TS (L) ON CONT BAY

ODT/RNTO

TO AMTC (A & M ONLY) OR TO MTC FR (2/5 A & M ONLY) — AD/RNT1

PROVIDE FOR CAMA

PROVIDE FOR CAMA

DRAWING ISSUE 105A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G34

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G34

STABILO

CAD 152

SWBD CABLING FROM THE MTF CONT TO THE LIT

TERMINALS SHOWN ON SD-25918-01

VGT1	29	VGT1
VGT0	28	VGT0
VFT4	27	VFT4
VFT3	26	VFT3
VFT2	25	VFT2
VFT1	24	VFT1
VFT0	23	VFT0
FUT9	22	49
FUT8	21	48
FUT7	20	FUT7
FUT6	19	FUT6
FUT5	18	FUT5
FUT4	17	FUT4
FUT3	16	FUT3
FUT2	15	FUT2
FUT1	14	FUT1
FUT0	13	FUT0
HGT9	12	HGT9
HGT8	11	HGT8
HGT7	10	HGT7
HGT6	09	HGT6
HGT5	08	HGT5
HGT4	07	HGT4
HGT3	06	HGT3
HGT2	05	HGT2
HGT1	04	HGT1
HGT0	03	HGT0
FS2	02	FS2
FS1	01	FS1
FS0	00	FS0

TO LIT

TO CAD 153

TO CAD 117

TS (LIT) ON CONTROL BAY

FTT5	45	FTT5
FTT4	44	FTT4
FTT3	43	FTT3
FTT2	42	FTT2
FTT1	41	FTT1
FTT0	40	FTT0
VGT11	39	VGT11
VGT10	38	VGT10
VGT9	37	VGT9
VGT8	36	VGT8
VGT7	35	VGT7
VGT6	34	VGT6
VGT5	33	VGT5
VGT4	32	VGT4
VGT3	31	VGT3
VGT2	30	VGT2

TO LIT

TO CAD 153

TS (LIT) ON CONTROL BAY

DRAWING ISSUE

51D	GAF
61A	NJC
69D	

SD-25800-01-G35

69

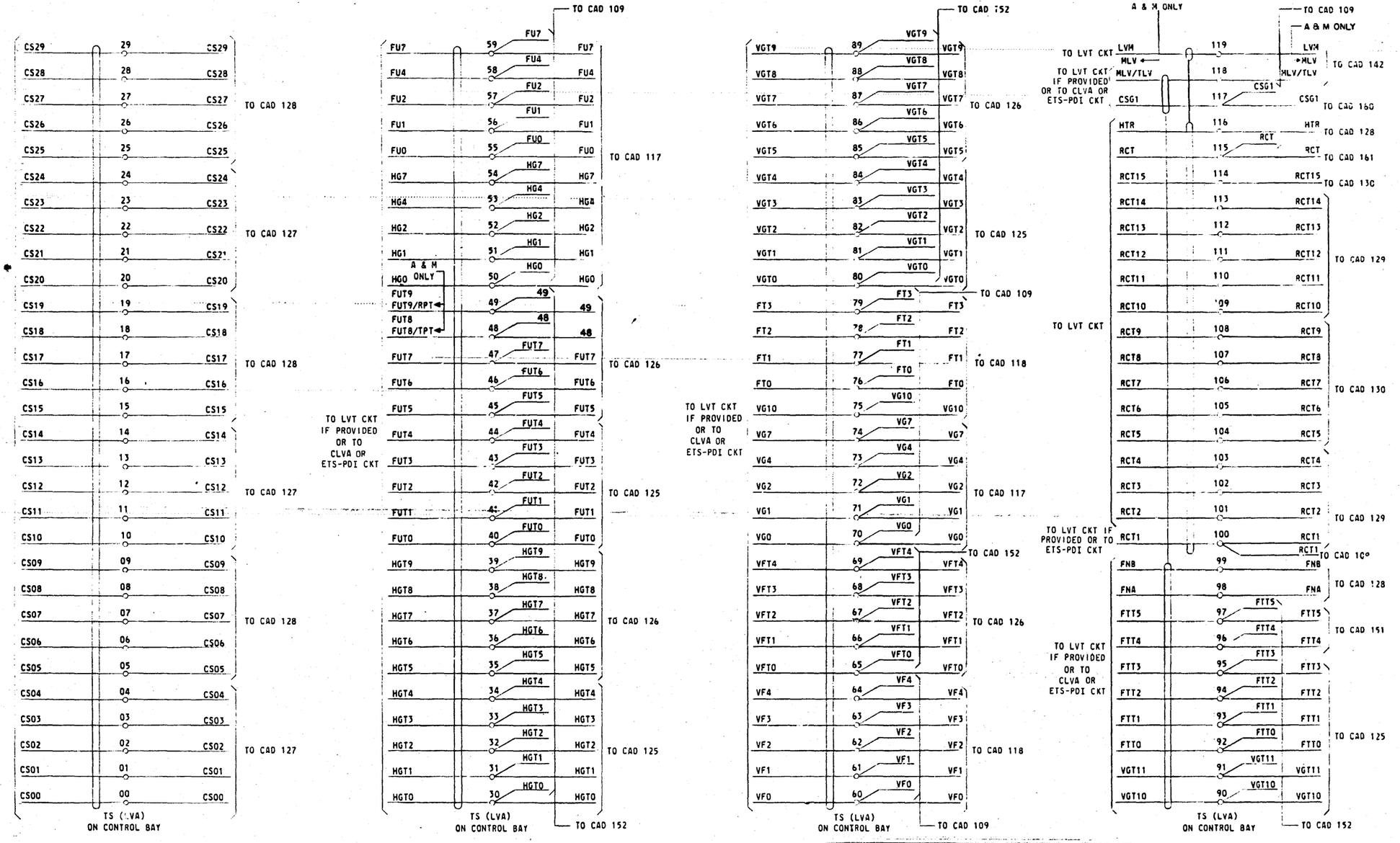
MASTER TEST CONTROL CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-G35

CAD 153



DRAWING ISSUE

51D	GAV	XMR ANR
61A	MLV	ASL ANO
62D	N.F	ASL ANO

ISSUE 96B

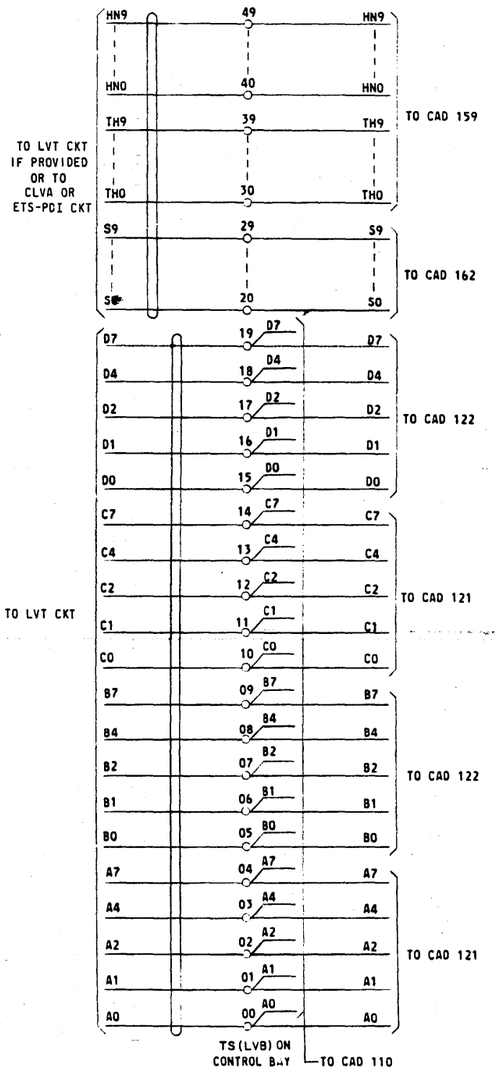
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G36

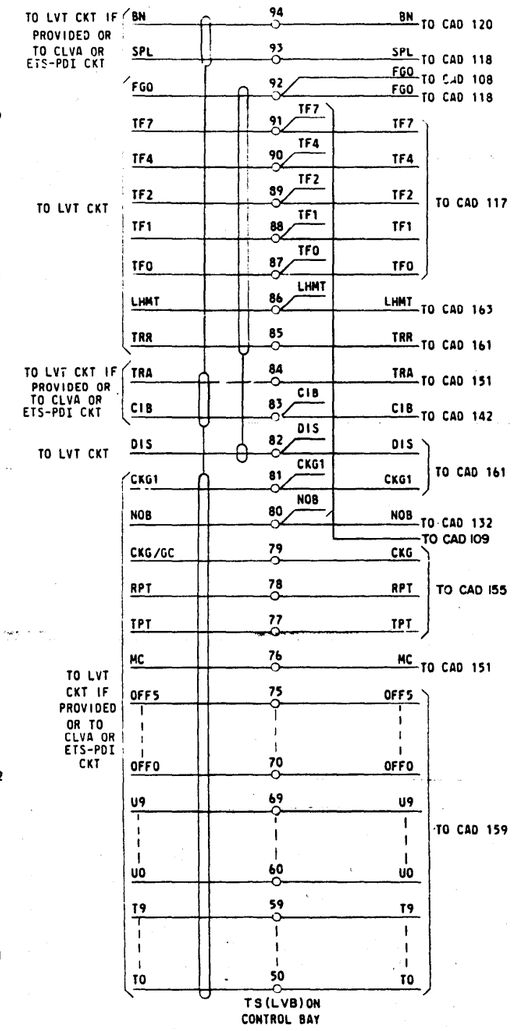
BELL TELEPHONE LABORATORIES INCORPORATED 6S

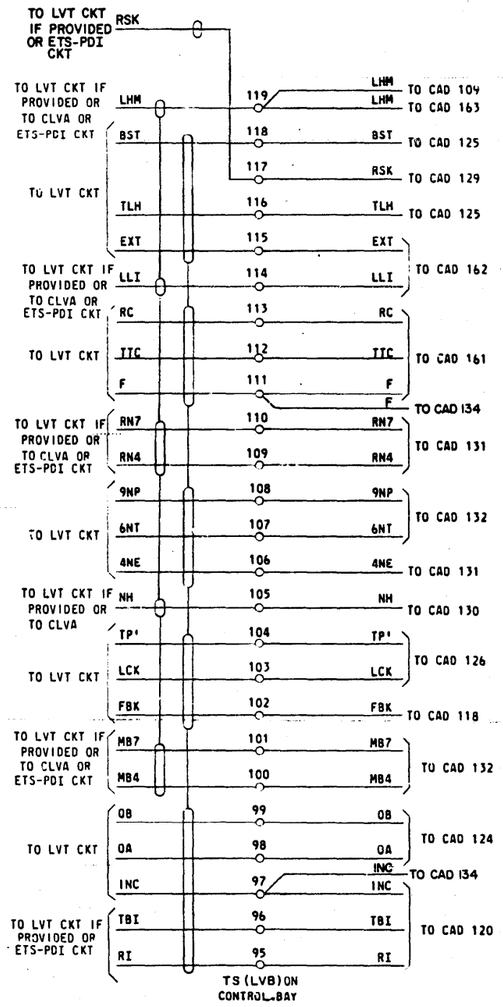
SD-25800-01-G36

MARS

CAD 154



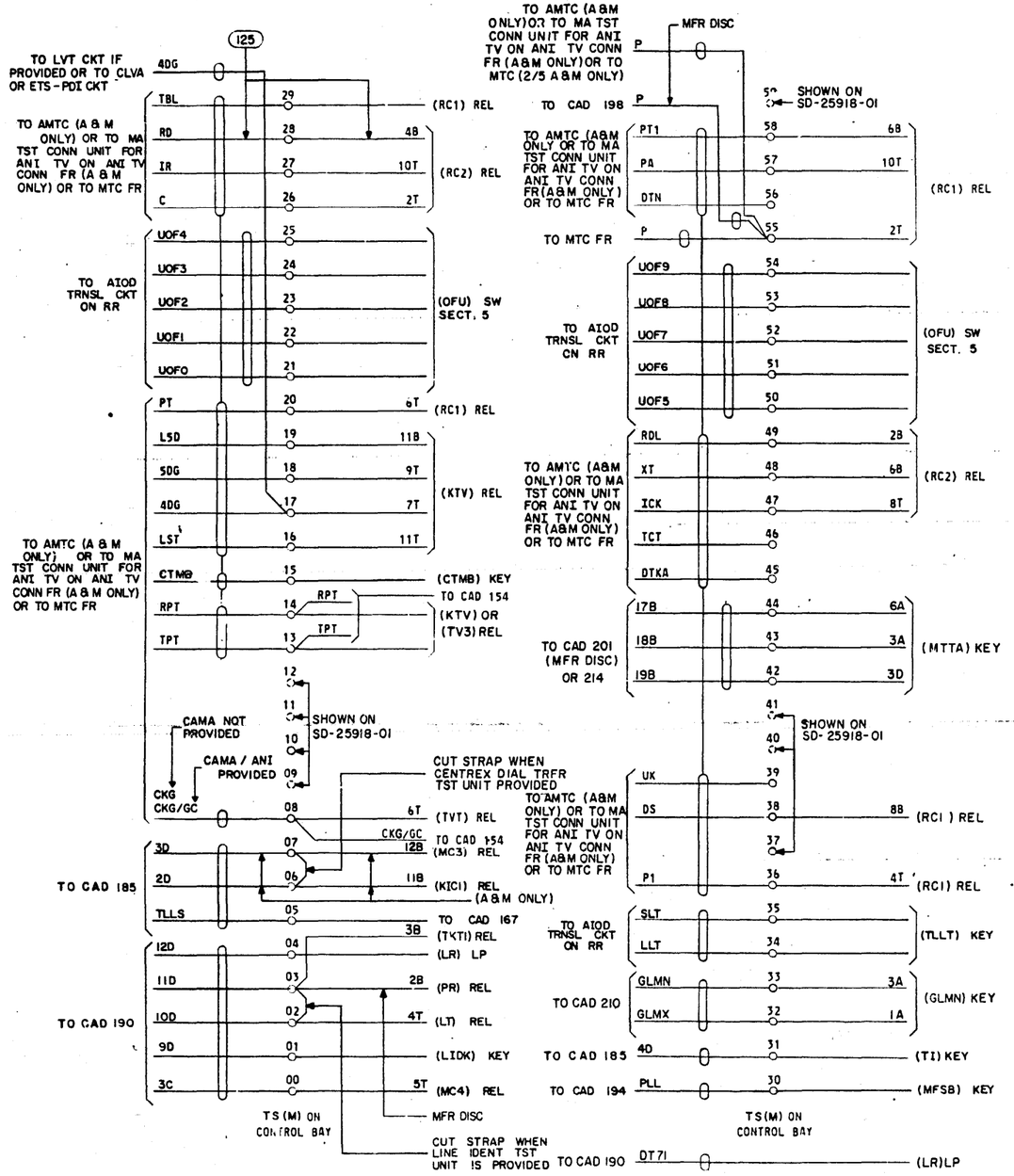




DRAWING ISSUE
51D
52D
ISSUE 103A
SD-25800-01-G37
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-G37
BELL TELEPHONE LABORATORIES INCORPORATED
6S

CAD 155

(FOR APP FIG. 3,20,56,87,111,114 & 171)



DRAWING ISSUE

51D	GA		
58D			
59A			
62D			
63D			
64A			
66A	UP		
67D	UP		
70A	BM		
73D			
80D			
83A			

ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G38

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G38

STABILO

CAD 156

(FOR APP FIG. 1,2,7,8,9,10,16, 25,31,32,34,35,40,M,V)

TO CAD 257 NGTR, NGT4, NGT12, TNGA

ADD / OMIT — WHEN LLP/ETS IS PROVIDED

(NGT)RES 128 (NGT)REL

49 SHOWN ON SC 25762-01

TO AUTO. RANGE MT8 EXT TEST CKT

TO APTT TO MKR — TTA, TTA, TNGA

TO CAD 169

MFR DISC. (NGT) SW SECT. I (MFR DISC) OR (NGT) KEL

MT19 TNGA MT10 MT9 MT8 MT3 MT9 MT3 MT9 MT3 ASB MT2

TO MARKER CKT

TO CAD 259

TO TRK TEST REG CKT

TO APTT (SEE NOTE 204) MFR DISC. OR TO CAD 168

TO MARKER CKT

MT19	98	TO CAD 165 (LLPV) REL
MT19 / MT10		SWBD CA TO LVT REL UNIT (A&M ONLY) OR LC TO CAD 149
MT10	9T	(VER6) REL
MT10		TO CAD 165 (KJSC) REL
MT8	18	
MT8	12S	TO CAD 165
	12T	(FSO) REL
		WHEN NEITHER APTT OR LVT IS PROVIDED
ASB	2T	(ASB) REL
MT2	4T	(KOS) REL
ASB		
MT2		TO CAD 165

TT19 … TT0 — TO TRK TEST REG CKT

(TS) KEY MFR DISC. OR (TSU) SW SECT. 1 MFR DISC.

(TS) KEY MFR DISC. OR (TSU) SW SECT. 2 MFR DISC.

TO AUTO PROG TRK TST CKT (SEE NOTE 204) MFR DISC. OR TO CAD 168

TS(MKR A) ON CONTROL BAY

TO CAD 165

TO APTT (MFR DISC.) OR TO CAD 169 — OTT

TO MARKER CKT — OTT, TTM, DISC, DISC, LHC

TO CAD 169

MFR DISC.

OTT	79 / 98	(CAM) REL
TTM	78	WHEN CAMA IS PROVIDED
DISC	77 / 58	(REC) REL
DISC		TO CAD 147
LHC	76 / LHC	TO CAD 165 (LHC) REL
	75	WHEN NEITHER APTT OR LVT IS PROVIDED
	74	
	73	
	72	WHEN EITHER APTT OR LVT OR BOTH IS PROVIDED
	71	
	70	

SHOWN ON SD-25988-01

TO MARKER CKT

NGF	69	(LP) REL
LLF	68	(CHT) KEY OR (LP) REL
NDT	67 / 1T	(TS3) REL
RLT	66	(RLT) KEY
DIS	65	(RBT) KEY
RBT	64	
TRR	63 / 7B	(TSI2) REL (TRR) KEY
NOLL	62	WHEN SPECIAL MARKERS ARE EQUIPPED WITH MESSAGE REG POTENTIAL DETECTOR
NTR	61 / 6T	(NTR) REL
NFLH	60 / 4B 2B	(MPT) REL (MPT4) REL
LL9	59	
LL8	58	
LL7	57	
LL6	56	
LL5	55	
LL4	54	
LL3	53	
LL2	52	
LL1	51	
LL0	50	

MFR DISC.

TO COMP OR ACD MARKER CKT

TO AUTO. RANGE EXT TEST CKT — TO LVT CKT

(S) SW SECT. 1 ~~(50-9) KEY~~

TO FIRST COMPLETING MARKER CKT — NOLL

TS(MKR A) ON CONTROL BAY

TO CAD 221 WB 6B (TSI2) REL

TO CAD 203 WB 5B

TO CAD 220A LP 2B (LP) REL

BK

REQD ONLY IN OFFICES HAVING 6D CLASSES OF SRV (1/30 BASIS WITH PHASE I OR II CENTREX AND NO RATE TREATMENT

FTC29	99 / 9B	(FS2) REL
FTC28	98 / 7B	
FTC27	97 / 5B	
FTC26	96 / 3B	
FTC25	95 / 1B	
FTC24	94 / 9T	
FTC23	93 / 7T	
FTC22	92 / 5T	
FTC21	91 / 3T	
FTC20	90 / 1T	

TO MARKER CKT

CGB1 CGA1 — TO AUTO. RANGE EXT TST CKT

CLASS OF SERVICE ON CLASS UNITS AND TEN-BASIS AND 1-20 RATE TREATMENTS PROVIDED

TO AUTO. RANGE EXT TEST CKT — CGA, CGB

TO LVT CKT (A & M ONLY) — CGB1, CGA1

TO COMPL MKR IN CENTREX OFF WITH 6D CLASSES OF SERV (A&M ONLY) — CGB1, CGA1

TO APTT (SEE NOTE 204) MFR DISC. OR TO CAD 168

TO DIAL TONE MARKER

TO DIAL TONE WIRE SPRING MKR OR ACD MARKER FR

TO CAD 188

CGB	89 / 7B	SWBD CA TO LINE VERIF TST UNIT (A&M ONLY) OR LC TO CAD 149
CGA	88 / 5B	
	87 / 3B	(TSI0) REL
	86 / 1B	
	85 / 11T	MFR DISC.
MT4	9T	(KCS5) REL
WSD	7T	
ETSO	5T	
ETS1	3T	(TS10) REL
OTSO	1T	
OTS1	8T	
ETSO	6T	
ETS1	12T	
MT4	10T	TO CAD 165
WSD	6B	
CGB	8B	
CGB1	2B	
CGA	4B	
CGA1		A&M ONLY

TO TRK TEST REG CKT — MT4, ETSO, ETS1, OTSO, OTS1

TO CAD 165

TS(MKR A) ON CONTROL BAY

TO CAD 254 — OSK1 7T (OSK) REL; MC22 1B (MC) REL; PTS 1T; GRD 8T (TSI) REL; TSI9 10; TSI0 1; TSO9 10 (TSU) SW SECT. 1; TSO0 (TSU) SW SECT. 2

TO CAD 220

TO CAD 256 — PCS 7T (MC) REL

TO MARKER CKT — FTC19 … FTC0 (FS1) REL; FTC9 … FTC0 (FSO) REL

TS(MKR A) ON CONTROL BAY

DRAWING ISSUE: 51D JMT, 53D EJM, 56D LFR, 59A SAU, 62D RBT, 63D RLV, 64A BKW, 65D JLM, 67D RF, 71D RJF, 74A, 76D, 77A, 79A

ISSUE 107A

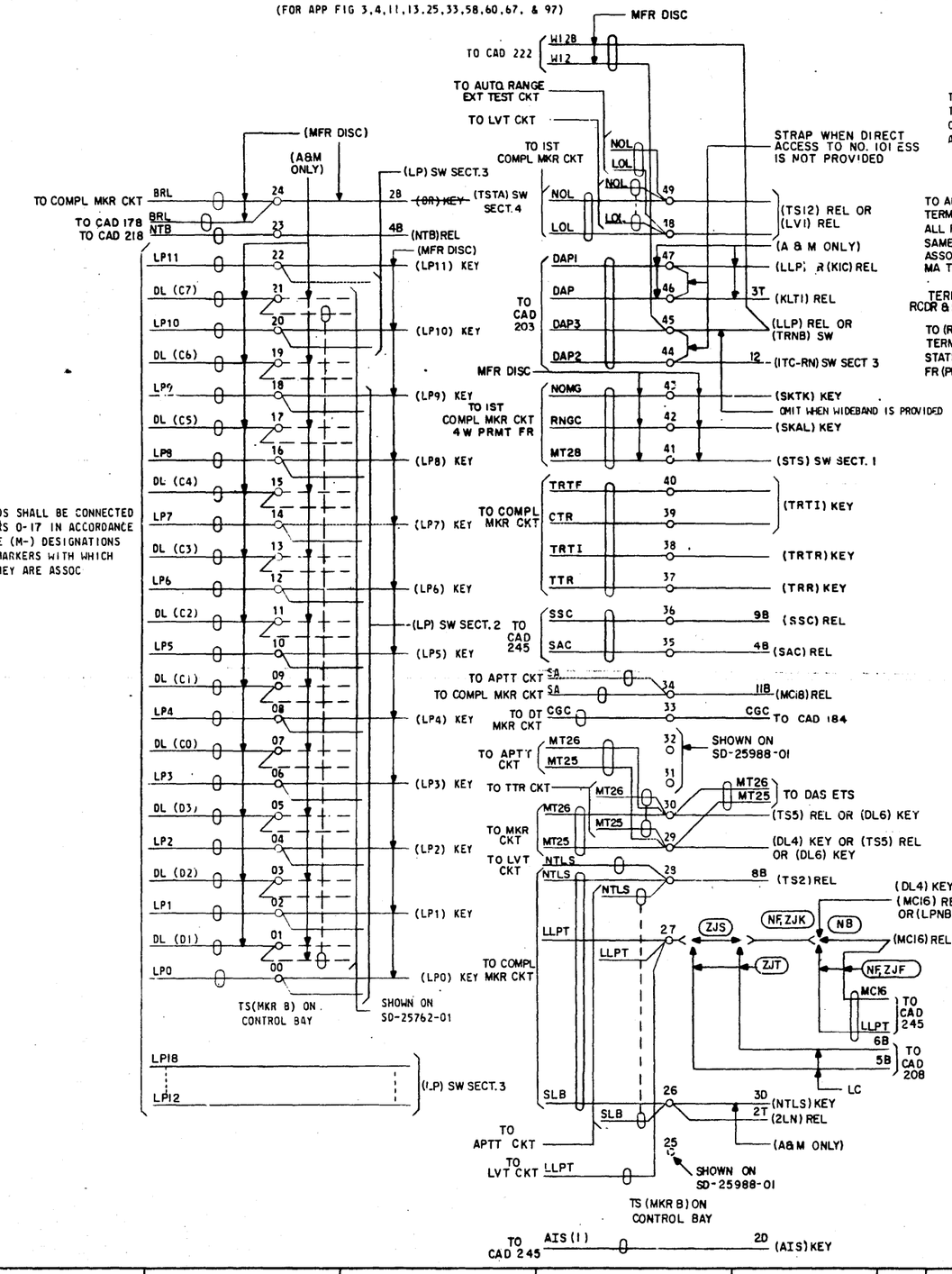
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G39

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

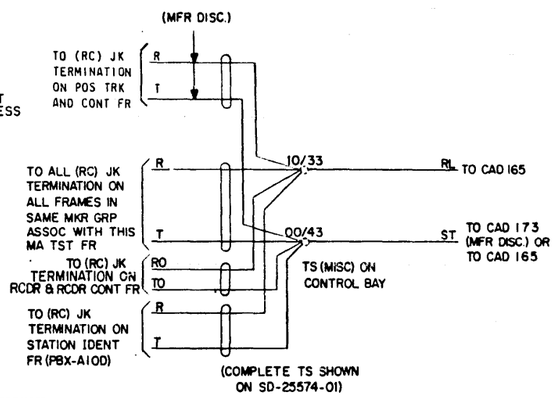
SD-25800-01-G39

CAD 157

(FOR APP FIG 3,4,11,13,25,33,58,60,67, & 97)



CAD 158



DRAWING ISSUE

510
52A
53D
56D
57A
58D
59A
60D
61A
62D
63D
64A
67D
730
760
800
83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G40

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-G40

STABILO

CAD 159

(FOR APP FIG. 15,20,49,57)

TO CAD 154

HN9 29 HN9 10T
HN8 28 HN8 8T
HN7 27 HN7 6T
HN6 26 HN6 4T
HN5 25 HN5 2T
HN4 24 HN4 10B
HN3 23 HN3 8B
HN2 22 HN2 6B
HN1 21 HN1 4B
HN0 20 HN0 2B
(HN) REL

TO MTC CKT

TH9 19 TH9 10T
TH8 18 TH8 8T
TH7 17 TH7 6T
TH6 16 TH6 4T
TH5 15 TH5 2T
TH4 14 TH4 10B
TH3 13 TH3 8B
TH2 12 TH2 6B
TH1 11 TH1 4B
TH0 10 TH0 2B
(TH) REL

TO CAD 149

OFF9 →31,09 OFF9 8B
OFF8 →52,08 OFF8 6B
OFF7 →42,07 OFF7 4B
OFF6 →32,06 OFF6 2B
OFF5 05 OFF5 2T
OFF4 04 OFF4 4T
OFF3 03 OFF3 6T
OFF2 02 OFF2 8T
OFF1 01 OFF1 10T
OFF0 00 OFF0 12T
(OFF) REL

TO CAD 154

TS (MISC L) A & M ONLY ON CONT BAY

TS(N) ON CONT BAY

TO CAD 171

TS (MISC L) A & M ONLY ON CONT BAY

TO CAD 149

OFT2 →43,59 OFT2 3B (OFT2) KEY
OFT1 →33,58 OFT1 3A
OFT0 →23,57 OFT0 1A (OFT1) KEY
2WT 56 1T
4WT 55 1B (MC14) REL
CDT0 54 1 SECT. 3 (MFR DISC)
CDT1 53 1
CDT2 52 2
CDT4 51 4
CDT7 50 7 SECT. 4 (MFR DISC) (CD) SW (MFR DISC.) OR (CDU) SW

TO MTC CKT

U9 49 U9 10T
U8 48 U8 8T
U7 47 U7 6T
U6 46 U6 4T
U5 45 U5 2T
U4 44 U4 10B
U3 43 U3 8B
U2 42 U2 6B
U1 41 U1 4B
U0 40 U0 2B
(U) REL

T9 39 T9 10T
T8 38 T8 8T
T7 37 T7 6T
T6 36 T6 4T
T5 35 T5 2T
T4 34 T4 10B
T3 33 T3 8B
T2 32 T2 6B
T1 31 T1 4B
T0 30 T0 2B
(T) REL

TS(N) ON CONT BAY

TO CAD 154

CAD 160

(FOR APP FIG. 1,6,7,20,50,96 & 112)

ACD OFFICE E/W CALL TRANS

ADD OMIT

TO CAD 220A VER2 5T (VER2) REL
TO CAD 222 WBT8 2B (KVFI) REL
MFR DISC TS1 13T (TS1) REL
CKG2 TO CAD 250
CKG2 29 18 (MS1) REL
CKG3 TO CAD 250 9B (MC1) REL

OCI 28
THGT9 27 THGT9
THGT8 26 THGT8
THGT7 25 THGT7
THGT6 24 THGT6
THGT5 23 THGT5
THGT4 22 THGT4
THGT3 21 THGT3
THGT2 20 THGT2
THGT1 19 THGT1
THGT0 18 THGT0
TVFT4 17 TVFT4
TVFT3 16 TVFT3
TVFT2 15 TVFT2
TVFT1 14 TVFT1
TVFT0 13 TVFT0
VGA 12 9T (KVG2) REL

TO CAD 137

TVGT11 11 TVGT11
TVGT10 10 TVGT10
TVGT9 09 TVGT9
TVGT8 08 TVGT8
TVGT7 07 TVGT7
TVGT6 06 TVGT6
TVGT5 05 TVGT5
TVGT4 04 TVGT4
TVGT3 03 TVGT3
TVGT2 02 TVGT2
TVGT1 01 TVGT1
TVGT0 00 TVGT0
VGA

TO CAD 137

TO MTC CKT

TO CAD 202 MFR DISC

TS(P) ON CONT BAY

102

LW OR LC

U9 11B
U8 9B
U7 7B
U6 5B
U5 2T
U4 4T
U3 6T
U2 8T
U1 10T
U0 12T
(KCS1) REL

TO CAD 250

T2 8T
T1 10T
T0 12T
(KCS0) REL

OTL1F 7B (OTL1) REL
OTL1E 6B (OTL2) REL
OTL1D 6B (OTL1) REL
OTL1C 4B (OTL2) REL
OTL1B 4B
OTL1A 2B (OTL1) REL
OTL1 13T

KVG3 11T (KVG3) REL
KVG2 8B (KVG2) REL
KVI 13T (KVI) REL

REQD WHEN ACD IS NOT PROVIDED

REQD FOR ACD ONLY (MFR DISC.)

MFR DISC.

MLFA 59 12 SECT. 2 (RG) SW
RT3 58 2A (RT0) KEY
RT2 57 3C (RT3) KEY
RT1 56 SECT. 2 (ORG) SW
RT0 55 3D (RT2) KEY
NSP 1C (RT1) KEY
NSP 3A (RT0) KEY
SA SECT. 1 (RG) SW

TO MTC CKT

TO LVT CKT IF PROVIDED OR TO CLVA OR ETS-POI CKT

NSP 54 4B (MC14) REL
SA 53 9B (MFR DISC)
PML 52
LNP 51 (ATMT) SW SECT. 1
LNPR 50
NPR 49 8B (TS1) REL OR (VER9) REL
OHS 48 3B (2LN) REL
PLB 47 11B (KLT) REL
CDP15 46
CDP10 45
CDP7 44
CDP4 43 (CDPU) SW (MFR DISC) OR (KPD) REL
CDP2 42
CDP1 41
CDP0 40
COP1

TO MTC CKT

TO LVT CKT
TO MTC CKT KCS 39 MFR DISC TO CAD 187
TO CAD 185 CTL2 38 3A (CTL2) KEY
37 MFR DISC.
OBS1 36 (OBS) KEY
TC1 35 7B (MC1) REL
MLF 34 (MLF) KEY
MF 3
2 10 SECT. 2 (ORG) SW
MF 33 (MF) KEY
D 32
1 SECT.1 (RG) SW
1C (RT3) KEY
2B (KCS6) REL
CSG2 TO CAD 165
CSG2 TO CAD 109
CSG2 31
1B (KESO) REL (MFR DISC) SEE CAD 186 PCHG 42
CSG1 5T (VER2) REL
CSG1 TO CAD 153
CSG1 30 3B (KCS2) REL

TO CAD 220A TO AMRST CKT

TS(P) ON CONT BAY

TO TRK TST REG CKT
REQD FOR ACD ONLY (MFR DISC.)

NEITHER APTT OR LVT IS PROVIDED (MFR DISC)

REQD WHEN ACD IS NOT PROVIDED

DRAWING ISSUE

51D GA
53D EA
56D
57A LE
58D
60D
61A
62D
63D
65D
66A MS
68A JF
70A RJ
71D CLB
74A
76D

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

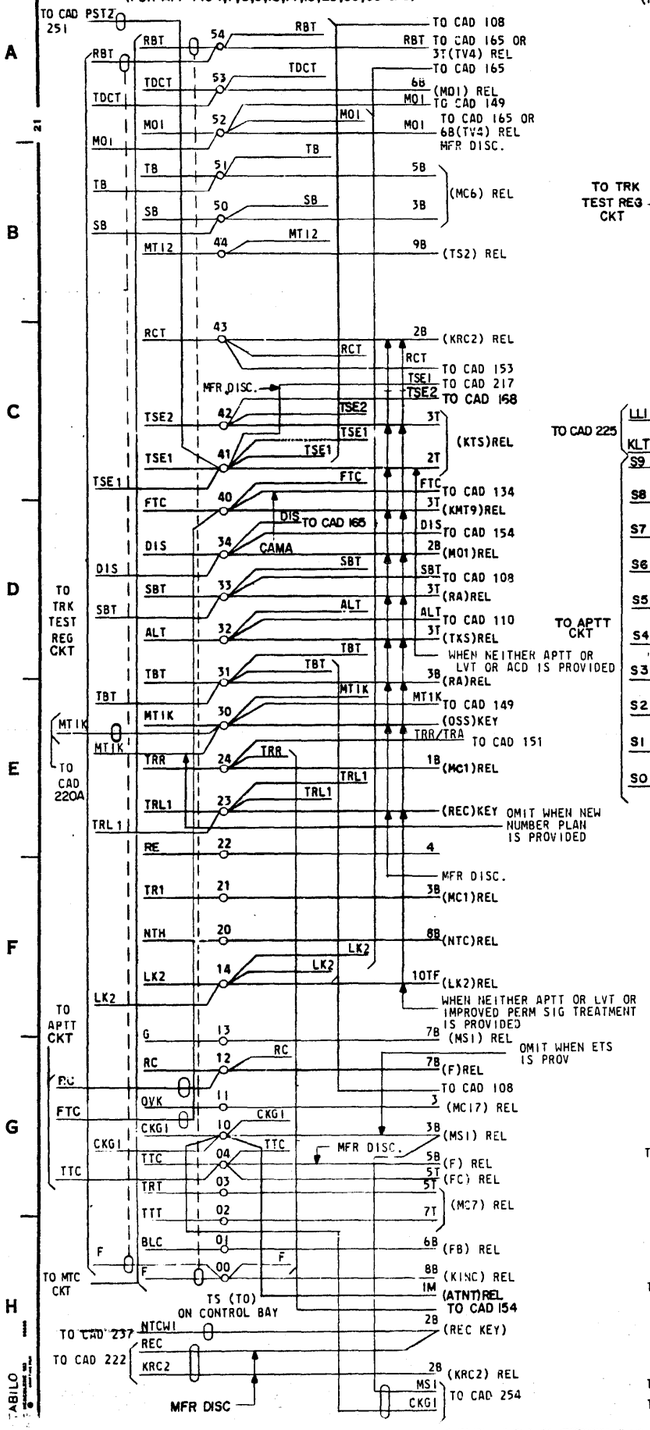
SD-25800-01-G41

BELL TELEPHONE LABORATORIES

SD-25800-01-G41

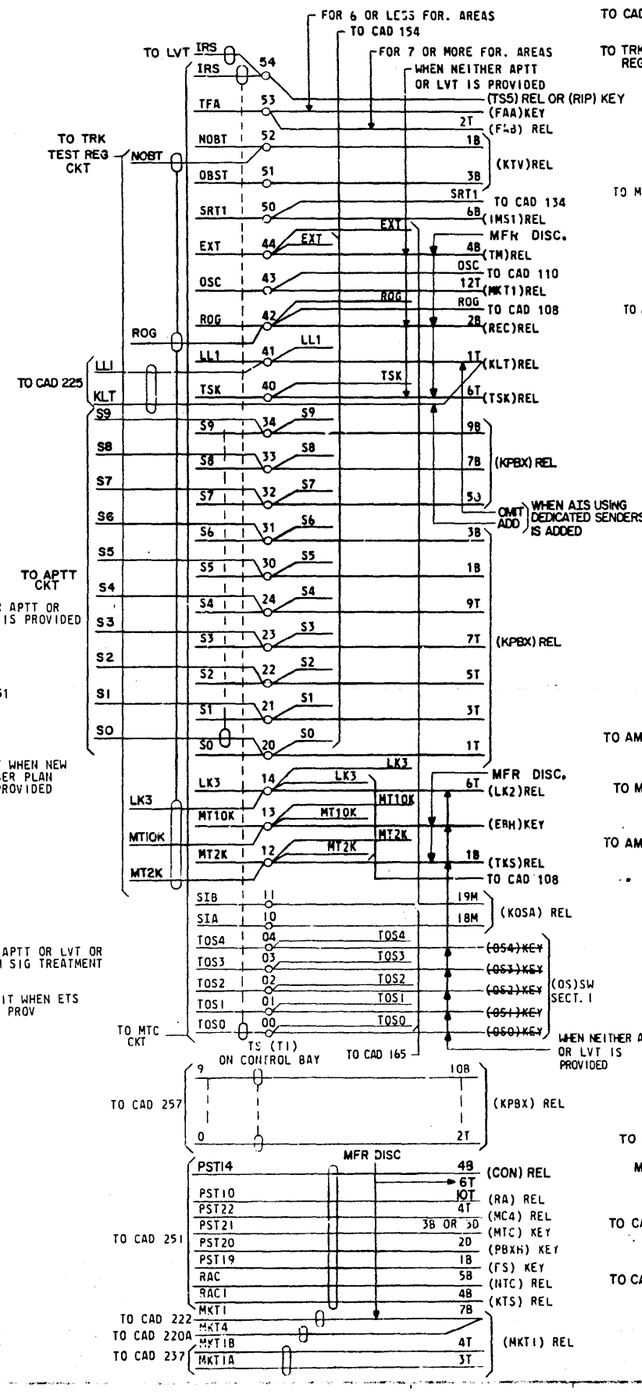
CAD 161

(FOR APP FIG 1,7,8,9,13,14,15,25,35,55 & 8)



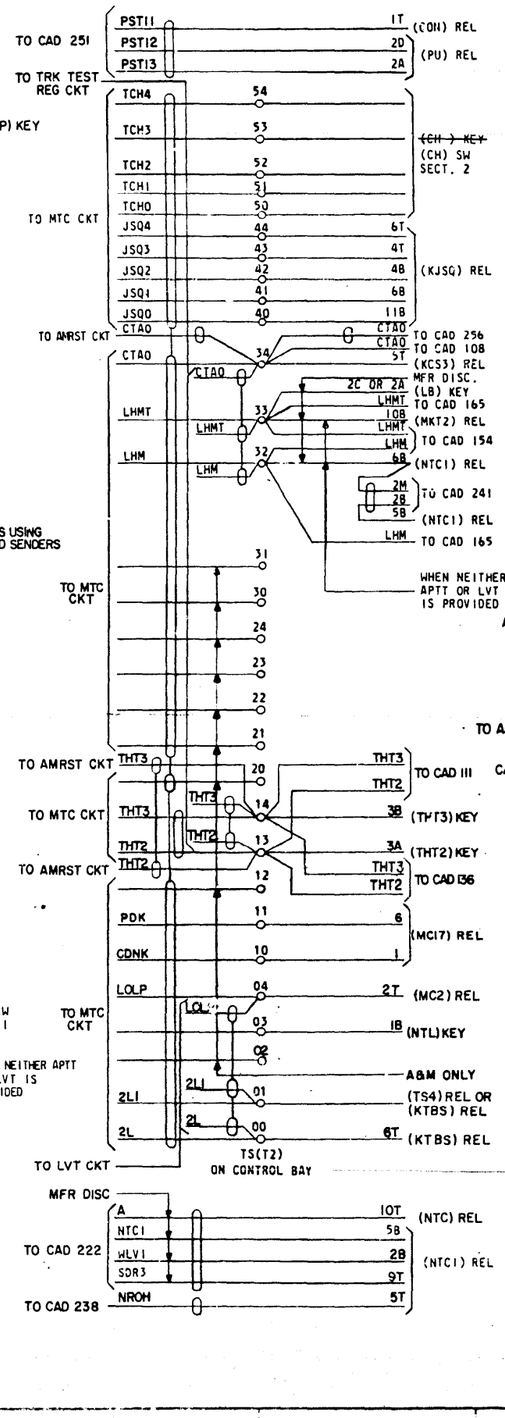
CAD 162

(FOR APP FIG. 1,2,8,9,13,15,16,20,22,30,35,58,65.84,& X)



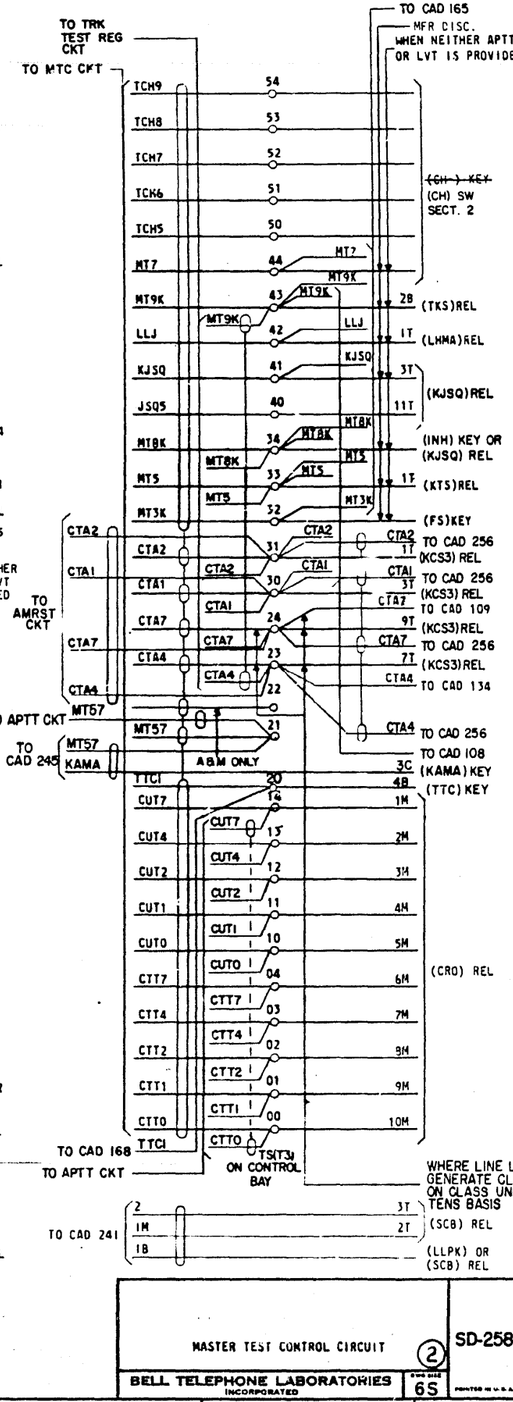
CAD 163

(FOR APP FIG 1,2,3,7,10,14,15,25,55,58 & 65)



CAD 164

(FOR APP FIG 7,9,10,11,14,20,55 & 60)



DRAWING ISSUE
51D
52A
53D
57A
58D
62D
63D
64A
65D
67D
70A
71D
73D
74A
76D
77A
80D
81A
83A

ISSUE 105A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G42

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-G42

CAD 165

(FOR APP FIG. 1,3,9,11,12,20,25,27,37,41,68,171 88)

TO CAD 237 CW2 5T, CW1 2T (NTCI) REL — OMIT, ADD WHEN CALL WAITING IS PROVIDED

R (R) RES

TO CAD 112 T 3T (LV5) REL

SDT1 4B

SDT2 (TOF) KEY

TTK 6B (TKT2) REL

TO CAD 116 TVK 4T (MTCP) REL — MFR DISC.

TVT1, TVT2 (TVT1) KEY

TO CAD 120 PCD (CAM2) KEY; PCD1 (CAM3) KEY; PCR (CAM1) KEY

TO CAD 134 PCR

TO CAD 123 BT 3T (MC1) REL

TO CAD 125 XFT 5T (TS5) REL

WHEN EITHER APTT OR LVT OR BOTH IS PROVIDED

TO CAD 125 TLH 9B; (KINC) REL 5T 10B (TS10) REL

TO CAD 126 OTT 7T (MC5) REL; NDT 3T (TV2) REL

TO CAD 128 TRK, TR2 (TR2) KEY

TO CAD 130 RBT1 1T (MC1) REL; TMK 7T (TS3) REL

TO CAD 131 ECN (KTN2) REL MFR DISC. OR (OCN) KEY

TO CAD 132 OBS 4B (KTV) REL

TO CAD 139 OAP (KLT1) REL OR (THC) KEY; OAT (KLT1) REL, (E), OR (THC) KEYS; OBP (KLT1) REL OR (THC) KEY; OBT (KLT1) REL, (E), OR (THC) KEYS; OAE (OAT), (E), OR (ETCH) KEYS; OBE (OBT), (E), OR (ETCH) KEYS — MFR DISC. — OR (TCL) SW A&M ONLY

SKT MFR DISC. 7M OR 10B (SDR2) REL; 3T (EPR) REL

TO CAD 142 T1 1B, CIB 3B (TS2) REL

TO MTF TRK TEST CKT SKT2, SKT1 2T (ITNP) REL

TO CAD 244 SKTA — CONNECT WHEN CENTREX MLPP 2-WAY TRK TEST IS PROVIDED

CG81 10T (VER8) REL

CGA1 4B

CG8 2T (KCS4) REL

CGA 5T

OTS1 (TS) KEY MFR DISC. OR (TSU) SW SECT. 3

OTSO

ETS1 (TS) KEY MFR DISC. OR (TS.) SW SECT. 4

ETSO

MT8 7B (TS3) REL

MT10 9B

MT19 12B

MT2 5B (TS4) REL

ASB 1B

WHEN EITHER APTT OR LVT OR BOTH IS PROVIDED

LHC 5B (TS5) REL

TO CAD 156 TT0 1T

TT1 3T

TT2 5T

TT3 7T

TT4 9T (TS6) REL

TT5 1B

TT6 3B

TT7 5B

TT8 7B

TT9 9B

TT10 1T

TT11 3T

TT12 5T

TT13 7T

TT14 9T (TS7) REL

TT15 1B

TT16 3B

TT17 5B

TT18 7B

TT19 9B

WSD (WSD) REL

TO CAD 251 MT4 1T (KFS) REL; MT3 5T — MFR DISC.

TO SDR TST CKT

TO CAD 158 RL 2B (KR2) REL

TO CAD 173 (MFR DISC.) OR CAD 158 ST (LT) KEY

TO CAD 160 CSG2 11T (TS3) REL

RBT 6T (MO1) REL

MO1 11T

TRL1 5T (TS2) REL

DIS 9T

10B (MC8) REL

RCT 9T (TS3) REL

MT1K 3B (TS4) REL

TO CAD 161 LK2 1T (TS2) REL

FTC 3T

TBT 9T

ALT 7T (TS5) REL

SBT 11T

TSE1 11T

TSE2 11B (TS6) REL

MO1 11T

LK3 3T (TS2) REL

ROG 7T

EXT 11B (TS3) REL

TOSO 1T

TOS1 3T

TO CAD 162 TOS2 5T (TS4) REL

TOS3 7T

TOS4 9T

MT2K 7B (TS5) REL

MT10K 9B (TS3) REL

TSK 11T (TS7) REL

TO CAD 163 LHMT 11B (TS2) REL; LHM 3T (TS3) REL

TO CAD 241 CHT12 3C (IAO) KEY — MFR DISC.

TO CAD 254 PCAM 7C (CAM1) KEY

TO CAD 164 MT8K 3B; KJSO 1B; MT7 5B; LLJ 5T (TS3) REL

MT3K 9B; MT9K 11B (TS5) REL

MT5 (TS7) REL

(TS2) REL 10B; (CAM5) REL 1T; (TV3) REL 1T (ITNP) REL

(TT1) KEY

TO CAD 222 PR, B (MTCP) REL OR (ROTP) REL; 9B (SDRI) REL — MFR DISC. — LOOP AT POS OF UNEQUIPPED APP

TO CAD 214 8B

TO CAD 220A ITNP 1B (ITNP) REL; MT1K 4B (TS4) REL

TO CAD 244 MTCP6 8B (TV2) REL; EPR3 6T (MFC) REL; EPP2 5T

DCT 8T (DCT) REL

AL 3A; RTM 6A (REP) KEY

TO TRK TST CKT REP 7T (TKT1) REL; MISC 9B (MISC) REL; IAO 9B (IAO) REL; KR 13T (KR) REL

TO CAD 214 T3A 1B (TKT3) REL

TO CAD 251 PST2 12T (TS6) REL; PSTO 2; PST1 3T (KTS) REL

TO CAD 245 REP 5B (REP) REL — A&M ONLY

TO CAD 214 12 3T (MTCP) REL; 12B (ROTP) OR (ATTP) REL — ADD, OMIT — WHEN LIT WITH DIRECT NO. PRINTOUT IS PROVIDED

ISSUE 102B

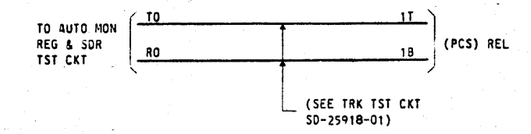
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G43

BELL TELEPHONE LABORATORIES INCORPORATED SIZE 6S

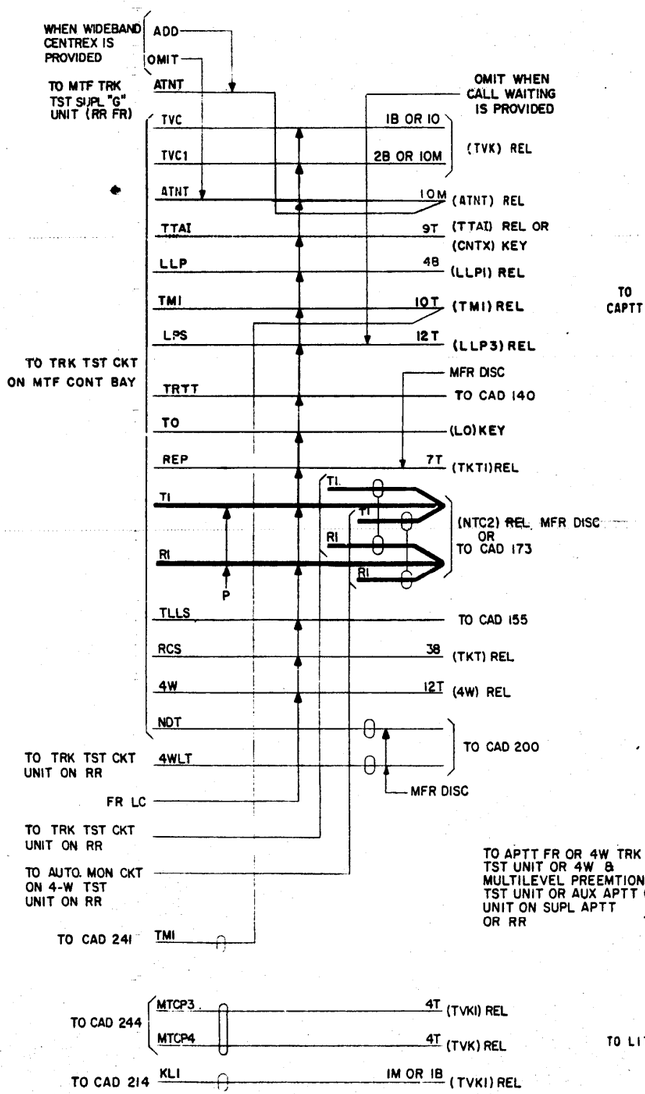
STABILO

SD-25800-01-643

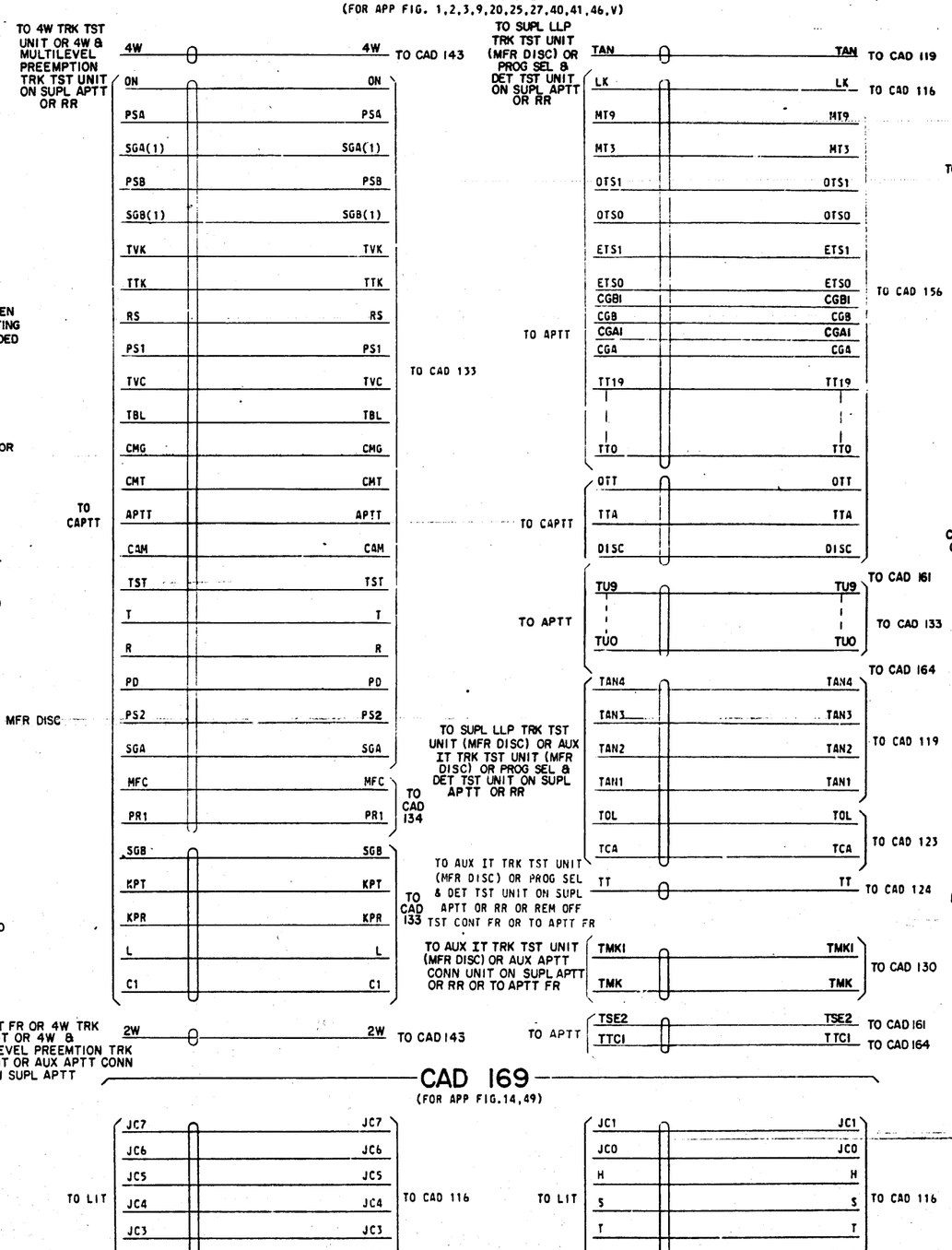
CAD 166
(FOR APP FIG. H)



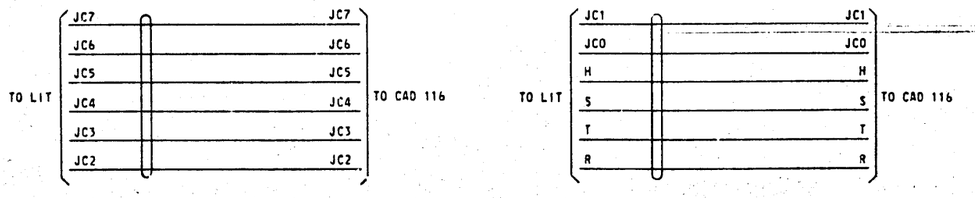
CAD 167
(FOR APP FIG 4,6,29,41,49,55,56,60 & 171)



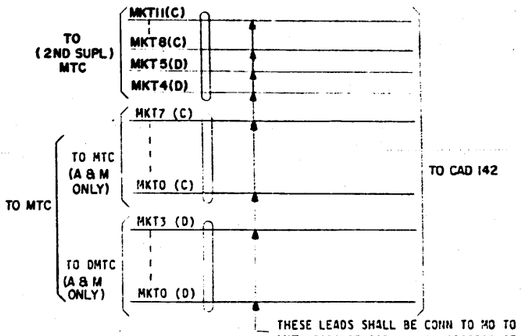
CAD 168
(FOR APP FIG. 1,2,3,9,20,25,27,40,41,46,V)



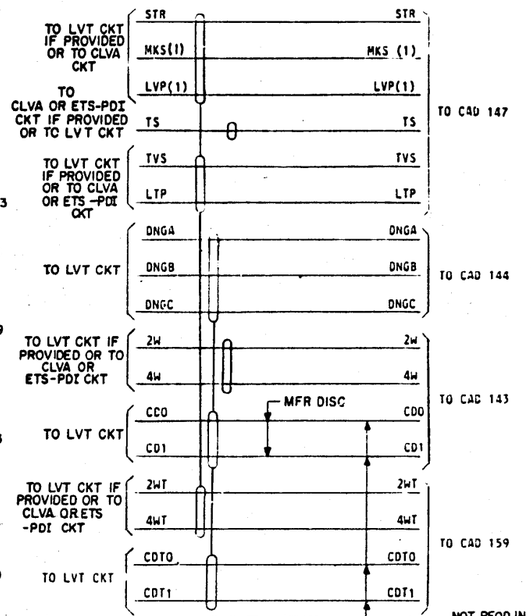
CAD 169
(FOR APP FIG.14,49)



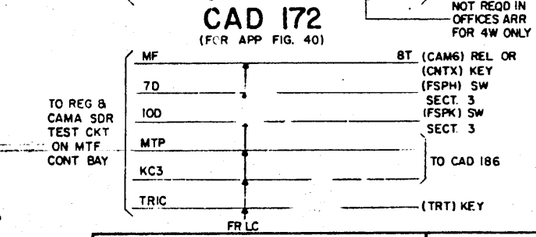
CAD 170
(FOR APP FIG. 52)



CAD 171
(FOR APP FIG. 15,49)



CAD 172
(FOR APP FIG. 40)



DRAWING ISSUE 98B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G44

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G44

CAD 173

(FOR APP FIG 1,4,13,17,24,31,49, 51,59,61,62,67,90,91,103,108, & F)

MFR DISC

TO CAD 194
- FU0 34 10T (KFU) REL
- FU 33 3A (MFSB) KEY
- (MFEB) KEY

TO CAD 177
- LO3 32 3C
- LO2 31 3B (LO) KEY

TO CAD 177 — 30 — 8T (MCI) REL

TO PCHG 40 — LOI 29 — 7B (SRTI) REL

TO CAD 177
- LO 28 (LO) LP
- STRC

TO CAD 178
- STRC 27 2B (STRC) KEY
- TI 26 6C
- AST 25 2B (IST) KEY

TO CONF CONT CKT
- T4 24 2D (CTAD) KEY
- STL 23 (STL) LP
- EC 22 (EC) LP
- RC 21
- CC 20 (CCT) LP
- RC

TO CAD 178 — TO 2-WIRE TRK LK FR — MTT 19 2T (MTT) REL

MTT
- LRF 18 (4WTL) LP
- LRF 17 (2WTL) LP
- LRF 16 (2WLL) LP
- FT 15 (LRFT5) LP
- FT 14 (LRFT4) LP
- FT 13 (LRFT3) LP
- FT 12 (LRFT2) LP
- FT 11 (LRFT1) LP
- FT 10 (LRFT0) LP

TO 4-WIRE TRK LK FR

FU 09 (LRFU9) LP

FU 00 (LRFU0) LP

TO LINE LK AUTO INCPT CONT UNIT ON RR (A&M ONLY) OR TO 2-WIRE LINE LK FR (MFR DISC) OR TO AUX LINE FOR LLP OR LLP-AIS LINES FOR USE WITH NO 5 ETS

TO 4-WIRE LINE LK FR

TS(CONT G) ON CONTROL BAY

CONN WHEN SUPL 4-WIRE TST UNIT NOT PROVIDED

MFR DISC.

TO CAD 245 — FSB 15 — 3B (OR) KEY

14 — 2B (MCI5) REL

13 — 2A (BRL) KEY

12 — 13T (CBRL) KEY

11 — 7T (BRL) REL

10 — 5T (BRL1) REL — TO CAD 165

9 — 5T — TO CAD 158

TO CAD 178 — CCE 7 — 2A (RC) LP

6 — 3B (CCM) KEY

5 — 4C (IST) KEY

4 — 2B (STAQ) KEY

3 — 2A (STAD) KEY

2 — 2C (ST) LP

TO CAD 237 — CW 1 — 2C (STRC) KEY

TO CAD 194 — 5C — 2D (MFEB) KEY

TO CAD 203 — TMI 18 — 4B (MFSB) KEY

TM1 — 4W 54 — (4W) LP

OTL6 — 53 — 4B (TMI) REL

17 — 52 — 4T (MRL) REL

16 — 51 — 9B (MKT3) REL

15 — 50 — 1B (MC12) REL

14 — 49 — 2B

13 — 48 — 3C (CPN) KEY

12 — 47 — (PE) LP

11 — 46 — 3T (TV1) REL

TO CAD 176 — 5T (BRL1) REL

45 — 2T (PT) REL

TFA — 1B (NIT) KEY

9 — 44 — TFA CAD 136

FG — 43 — 5T (KLT) REL

7 — 42 — 4D (3DC) KEY

6 — 41 — FG CAD 137

T1 — 40 — 3T (KLT) REL

R1 — 39 — 1D (3DC) KEY

3 — 38 — 6TF (MRL) REL — TO CAD 167

2 — 37 — 3T (NTC2) REL

TO CAD 188 — 11B — 36 — 4B (4W) REL

TO PCHG 30 — 35 — 7B (OTL3) REL

MFR DISC — 2B (WSD) REL

CONN WHEN SUPL 4-WIRE TST UNIT NOT PROVIDED

TO CAD 237 — TFA, FG

TS(CONT G) ON CONTROL BAY

NOT REQUIRED WHEN 3-DIGIT CALLING IS PROVIDED

OMIT WHEN CALL WAITING IS PROVIDED

CONNECT WHEN SUPL 4-WIRE TEST UNIT NOT PROVIDED

NOT REQUIRED WHEN 3-DIGIT CALLING IS PROVIDED

TO CAD 245 — CKI
TO CAD 218 — CKI — ZQV

TO CAD 177
- 14 — 104 — 12T (MCI) REL
- 13 — 103 — 3T (CKI) REL
- 12 — 102 — ZQU — 3B (PERT) KEY
- 11 — 101 — 2A (TDV) KEY OR (TRR) KEY — 4B (BRL1) REL — OMIT WHEN CALL WAITING IS PROVIDED
- 10 — 100 — 5B (BRL) REL

TO CAD 237 — TFB
TO CAD 195 — 20A — 99 — MFR DISC. (CONA) KEY

TO CAD 177
- TFB — 98 — TFB CAD 136
- 7 — 97 — 7T (KLT) REL — MFR DISC.
- 4A (3DC) KEY

TO CAD 195 — 19A — 96 — (CONA) KEY

5 — 95 — 1A (CBRL) KEY OR (ORT) REL — (BRL) KEY

4 — 94 — 3T (ORT) REL

TO CAD 177 — 3 — 93 — 2D (BRL) KEY

2C (RLT) KEY

2 — 92 — 3A (BRL) KEY

3A (CBRL) KEY

FU5 — 91 — 2B

FU4 — 90 — 2T

TO CAR 194 — FU3 — 89 — 4T (KFU) REL

FU2 — 88 — 6T

FU1 — 87 — 8T

ST16 — 86 — ~~16~~

ST15 — 85 — ~~15~~

ST14 — 84 — ~~14~~

ST13 — 83 — ~~13~~ — (SELU) SW SECT 1 (ST SEL SW)

ST12 — 82 — ~~12~~

ST11 — 81 — ~~11~~

ST10 — 80 — ~~10~~

ST9 — 79 — ~~9~~

TO CONF CONT CKT — ST8 — 78 — ~~8~~

ST7 — 77 — ~~7~~

ST6 — 76 — ~~6~~

ST5 — 75 — ~~5~~

ST4 — 74 — ~~4~~ — (SELU) SW SECT 2 (ST SEL SW)

ST3 — 73 — ~~3~~

ST2 — 72 — ~~2~~

ST1 — 71 — ~~1~~

ST0 — 70 — ~~21~~

TS(CONT G) ON CONTROL BAY

MFR DISC

TO CAD 254
- 1L — 1T (K2) REL
- 8 — 2B (KC) REL

ZKW

TO CAD 185
- 3C — 3C
- 3B — 3B (CONA) KEY

TO LAMA TV CKT FOR AMA MAG TAPE RECORDING — ATDL — 3B (ATDL) KEY

TO CAD 218A
- KG 8T (KG) REL
- KF 8T (KF) REL
- KE 8T (KE) REL
- KD 8T (KD) REL
- KC 10T (KC) REL
- KB 10T (KB) REL
- KA 10T (KA) REL

TO CAD 218
- ATD 1C
- DNK 5C (ATDL) KEY

TO CAD 218A
- ATV 2C
- TV 9T (TV) REL
- SP (SP) RES LP
- TS 11B (TS) REL
- ANI 4C (ANI) KEY

TO CAD 218
- MCI 5T (MCI) REL
- TV3 2T (TV3) REL

TO CAD 194
- STP (STP) LP
- FEB 2B (MFEB) KEY

CONNECT WHEN PAIRED LINE LK CONTROL UNIT NOT PROVIDED

TO CAD 246 (MFR DISC)
- ULL 2C (ULLT) KEY
- FTK
- TO CAD 220A — FUK

4C — 119 — 4T (FTK) REL

FTK

3C — 113 — (FT) SW. SECT 3

2C — 117 — 4T (FUK) REL

FUK

1C — 116 — (FU) SW. SECT 3

TO CAD 194
- FT5 115 12B
- FT4 114 12T
- FT3 113 2T (KV1) REL
- FT2 112 4T
- FT1 111 6T
- FT0 110 8T
- FU9 109 10B
- FU8 108 8B
- FU7 107 6B (KFU) REL
- FU6 106 4B

MFR DISC

TO CAD 177 — DISI 105 — 4B (DISI) REL

TS(CONT G) ON CONTROL BAY

DRAWING ISSUE

51D	GAV AMD
52A	GAV AMD
53D	ELM AMD
55A	GLM AMD
56D	ELM AMD
57A	ELM AMD
58D	PCJ AMD
59A	PCJ AMD
61A	APS AMD
62D	APS AMD
63D	BEM AMD
64A	JSS AMD
76D	
78D	
80D	
82D	
83A	

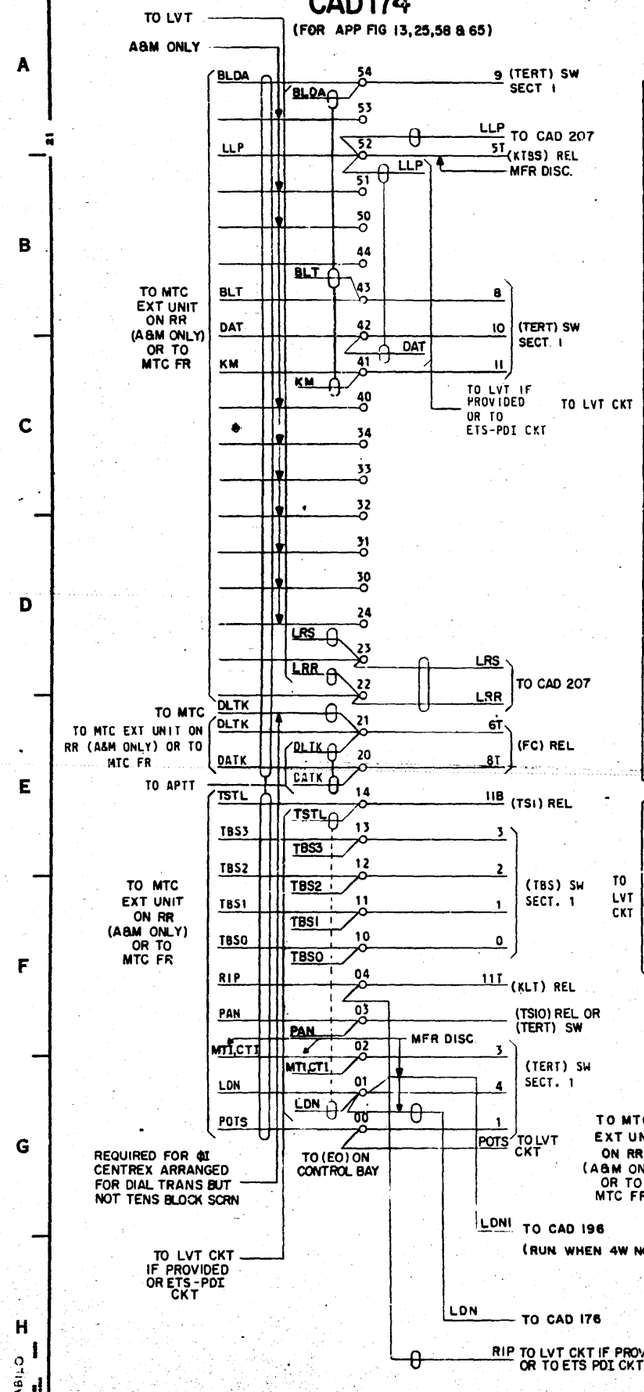
ISSUE 107A

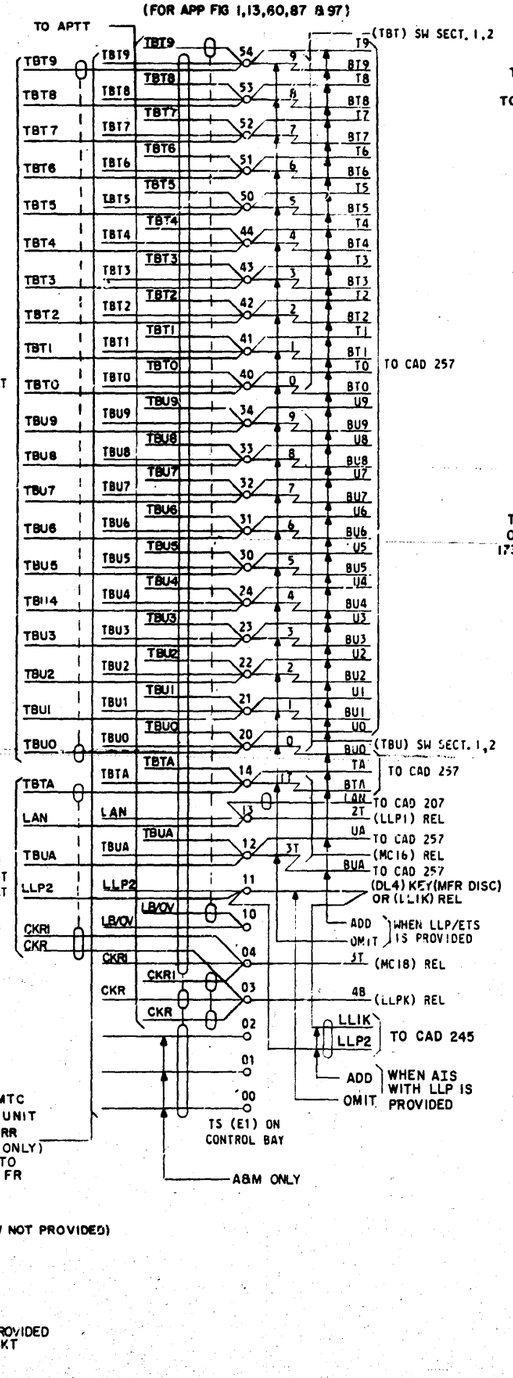
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G45

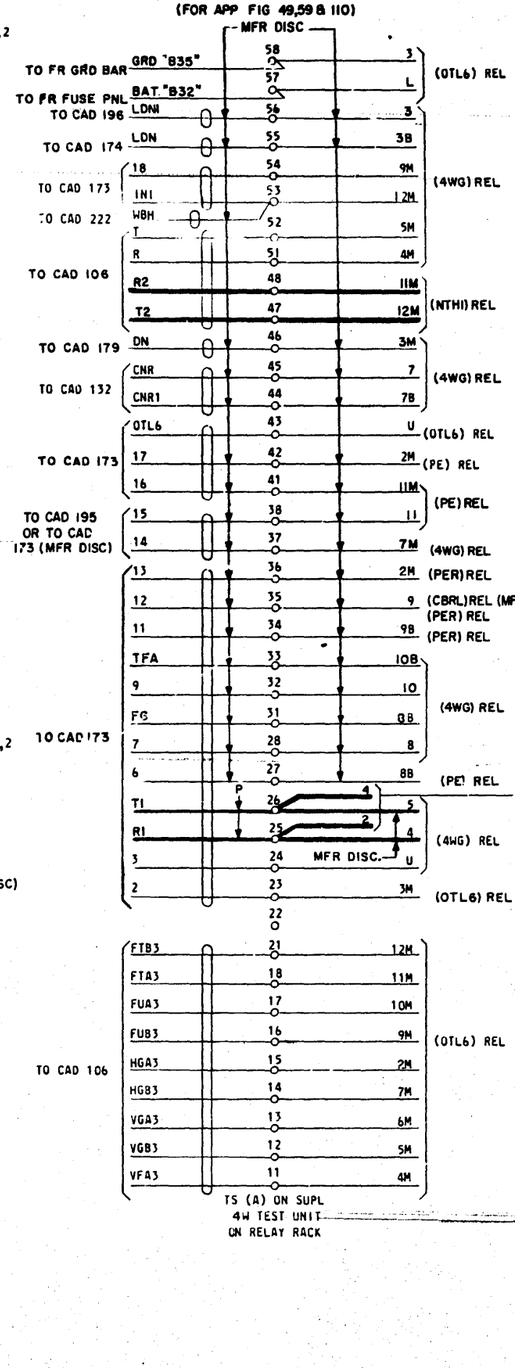
BELL TELEPHONE LABORATORIES INCORPORATED 6S

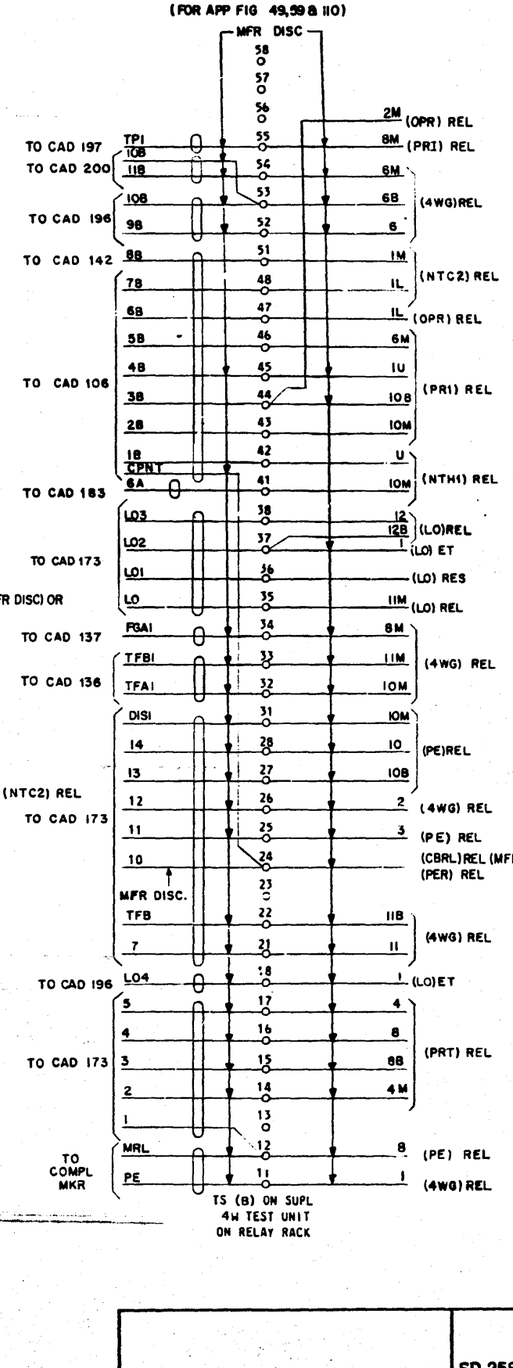
SD-25800-01-G45

STABILO









DRAWING ISSUE

51D	GLA, WWB AND
52A	RTL, WWB AND
53D	EM, PAU AND
55A	CTN AND
56D	CWS, PTM AND
57A	CTN AND
58D	JLR AND
60D	DM, ANL AND
61A	GLS, ASL AND
62D	GLS, ASL AND
63D	CWS, QLP AND
64A	CWS, QLP AND
66A	
71D	RJF
72A	ESM
76D	
78D	

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G46

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G46

STABILO

CAD 178 (MFR DISC)
(FOR APP FIG 62 & 110)

58 57 56 55 54 53 52 51 48 47 46 45 44 43 42 41 38 37 36 35 34

TO CAD 197 — CBRL — 33 — 4M (CBRL) REL — MFR DISC
TO CAD 157 — BRL — 32 — 12
15 — 31 — 12M
14 — 28 — 11M
13 — 27 — 10B (CCT) REL
12 — 26 — 10
11 — 25 — 8B
10 — 24 — 8
9 — 23 — 12M
TO CAD 173 — RC — 22 — 1U (CRC) REL
STRC — 21 — 10M
7 — 18 — U (CCT) REL
6 — 17 — 9
5 — 16 — 8M (ASTR) REL
4 — 15 — 12
3 — 14 — 11M (STA) REL
2 — 13 — 1B (RST) REL
CCE — 12 — (CCE) RES
TO CONF CONTROL CKT — STA — 11 — 12M (STA) REL

TS (C) ON SUPL 4-WIRE TST UNIT ON RELAY RACK

CAD 179
(FOR APP FIG 95 & 112)

MFR DISC — 54 53 52 DN — 51 — DN — TO CAD 176 — 50 44 43 42 41 40
TO MTC EXT UNIT ON RP — 34 33 32 31 30 24 23 22 21 20 14 13 12 11 10
MFR DISC

TO MTFC CKT ON MKR 4 W FR MFR DISC OR TO MTC EXT UNIT ON RR FR

CDA7 — 04 — 1B
CDA4 — 03 — 11T (CDA) SW SECT 2
CDA2 — 02 — 9T
CDA1 — 01 — 7T (CDA) SW SECT. 2 (MFR DISC) OR SECT. 1
CDA0 — 00 — 5T (CDA) SW SECT. 1

TS (D2) ON CONTROL BAY
TO LVT
(KPDI) REL
MFR DISC

TO MTF REG AND SDR TST BAY

CDA7
CDA4
CDA2
CDA1
CDA0

MFR DISC

CAD 180
(FOR APP FIG 1, 11, 20, 24, 49, 60, 74, H & N)

TO SDP TST CKT ON MTF CONTROL BAY

ST — 1D (TST, KEY) (TSTB) SW SECT. 3
AV — 2T (SDT) REL
LS — 2 (SDR3) REL
RL — 2C (RL) KEY
TSTK — 6T
TVTK — 4B (STK) REL
MTT — 3B (MTT) REL
4W — 1B (4W) REL
STG — 8T (SDT) REL
T — 4T
R — 4B (LLP2) REL
T1 — 2T
R1 — 2B (NTC2) REL
TAN — 7B (TAN) REL
TOL — (IC-TOL) KEY (MFR DISC) OR (SDR4) REL
TO — 1T
RO — 1B (PCS) REL
LPS — 12T (LLP3) REL
TO CAD 222 — TAN — 1T (TAN) REL
MFR DISC — OMIT WHEN CALL WAITING IS PROVIDED
ST — ADD WHEN CALL WAITING IS PROVIDED
CWH
CWHA — 3B (KR2) REL
TO CAD 237 — CWKR2 — 11T (KR) REL
CWKRI — 7T (SDT) REL
T — KK TO TRK TST CKT
TO CAD 112 — R
SDT
REPS — 12T (KR) REL
REP4 — 2D
TO CAD 245 — REP3 — 6D (REP) KEY
REP2 — (REP) KEY
REPI — (TSTB) SW-SECT. 1 OR (OGT) KEY
TO CAD 241 — CHT12 — 3 (TSTB) SW-SECT. 4

FR LOC CABLE

TM2 — 10T (MSI) REL
TO CAD 254 — TMI — 4B (TS) REL
VERI — 11T (VER4) REL

DRAWING ISSUE
51D 56D 58D 59A 61A 63D 71D 76D 77A 103A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G47
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G47

STABILO H&E

CAD 181 (MFR DISC)

(FOR APP FIG 66)

DRAWING ISSUE: 51D (SHOWN ON DWG ONLY); 74A

SHOWN ON SD-25988

TS(FSPA) ON CONT BAY

TO TST CKT FOR REG & CAMA SENDERS ON AMTF

B21 59 (FSPB) SW SECT. 1
C21 58 (FSPC) SW SECT. 2
B18 57
B14 56
B13 55 (FSPB) SW SECT. 3
B12 54
B11 53
B10 52
B7 51
B4 50 (FSPB) SW SECT. 2
B2 49
B1 48
B0 47 (FSPB) SW SECT. 1
A10 46
A7 45
A4 44 (FSPA) SW SECT. 2
A2 43
A1 42
A0 41
FSP 40 (FSPA) SW SECT. 1

SHOWN ON SD-25988

TS(FSPA) ON CONT BAY

TO TST CKT FOR REG & CAMA SENDERS ON AMTF

G7 89
G4 88
G2 87 (FSPG) SW SECT. 2
G1 86
G0 85 (FSPG) SW SECT. 1
F10 84
F7 83
F4 82 (FSPF) SW SECT. 2
F2 81
F1 80
F0 79 (FSPF) SW SECT. 1
E10 78
E7 77
E4 76 (FSPE) SW SECT. 2
E2 75
E1 74
E0 73 (FSPE) SW SECT. 1
D10 72
D7 71
D4 70 (FSPD) SW SECT. 2
D2 69
D1 68
D0 67 (FSPD) SW SECT. 1
C10 66
C7 65
C4 64 (FSPC) SW SECT. 2
C2 63
C1 62
L0 61 (FSPC) SW SECT. 1
B22 60 (FSPB) SW SECT. 2

TS(FSPA) ON CONT BAY

REMOVE WHEN WB IS PROVIDED

TO CAD 221

WRORI 119 (LLS) REL OR (TGTS) KEY
WROR2 118 (PT), (TVI), OR (ITNP) REL
117
116
115
114
113
112
111
110
109

SHOWN ON SD-25988

K10 108
K7 107
K4 106 (FSPK) SW SECT. 2
K2 105
K1 104
K0 103 (FSPK) SW SECT. 1
J10 102
J7 101
J4 100 (FSPJ) SW SECT. 2
J2 99
J1 98
J0 97 (FSPJ) SW SECT. 1
H10 96
H7 95
H4 94 (FSPH) SW SECT. 2
H2 93
H1 92
H0 91 (FSPH) SW SECT. 1
G10 90 (FSPG) SW SECT. 2

TO TST CKT FOR REG & CAMA SENDERS ON AMTF

TS(FSPA) ON CONT BAY

ISSUE 102B

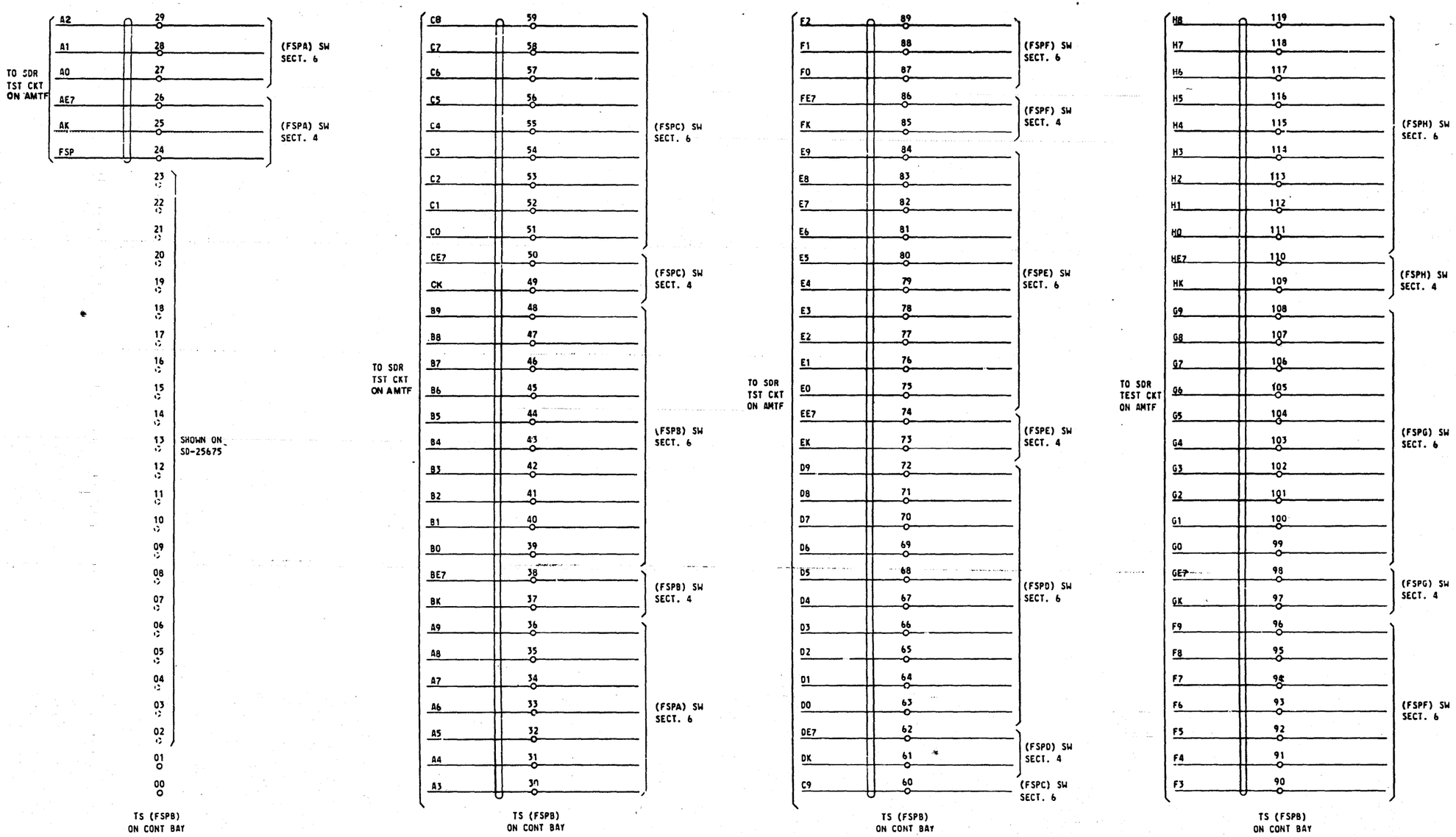
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G48

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G48

CAD 182 (MFR DISC)

(FOR APP FIG 66)



DRAWING ISSUE
SID
74A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G49

BELL TELEPHONE LABORATORIES INCORPORATED

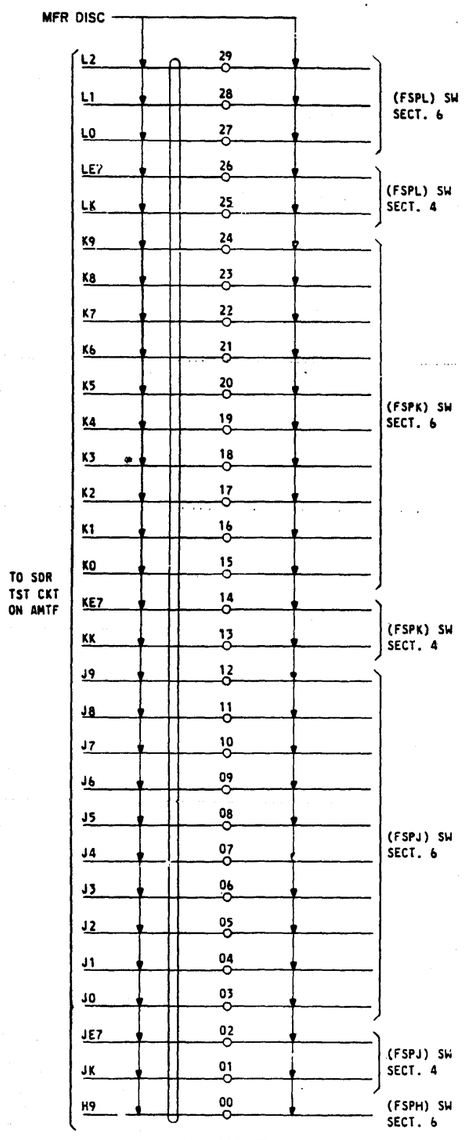
6S

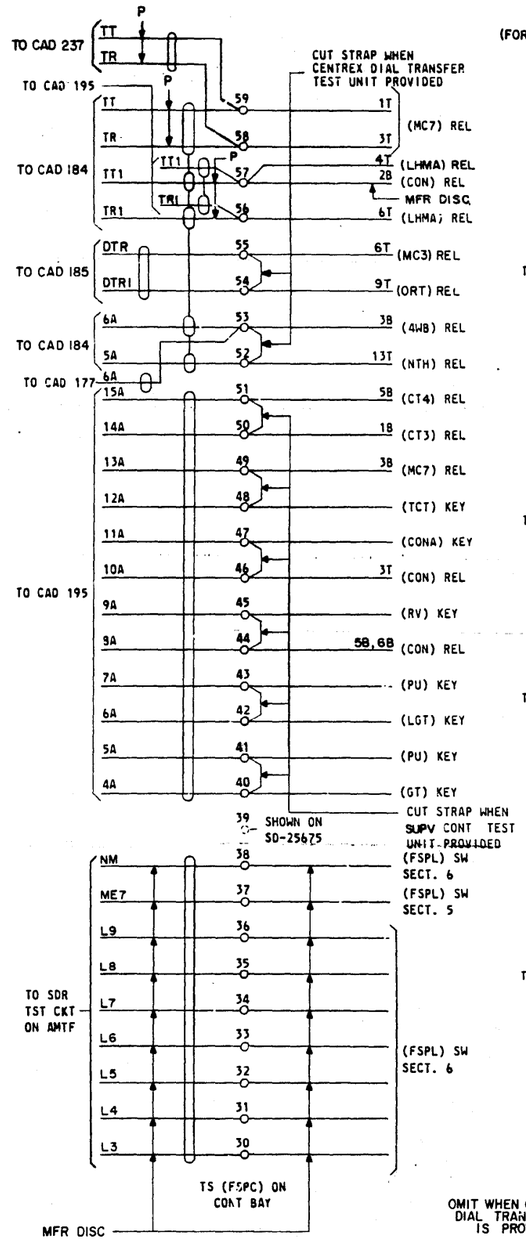
SD-25800-01-G49

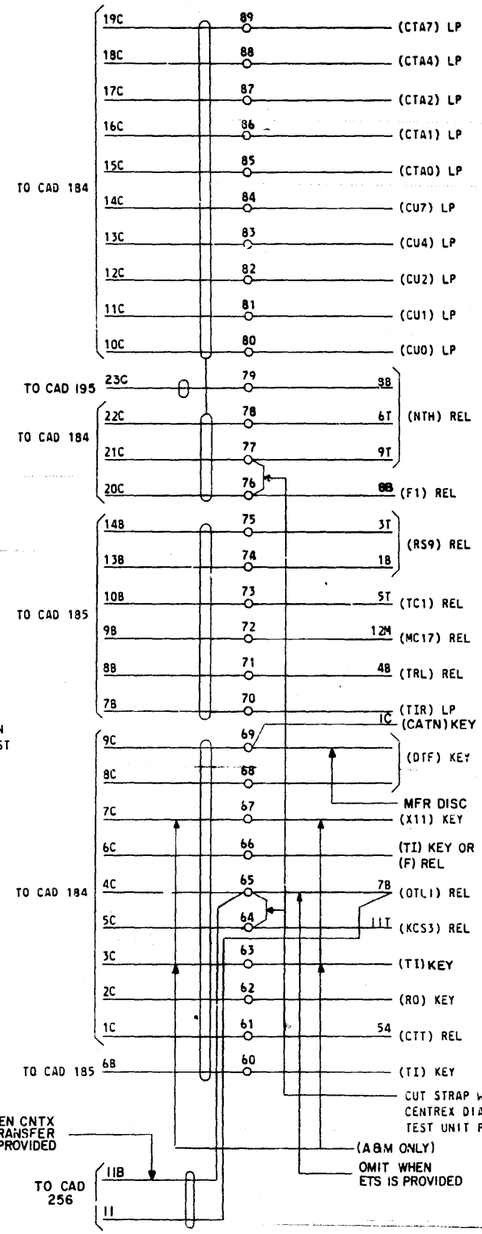
STABLO NEW

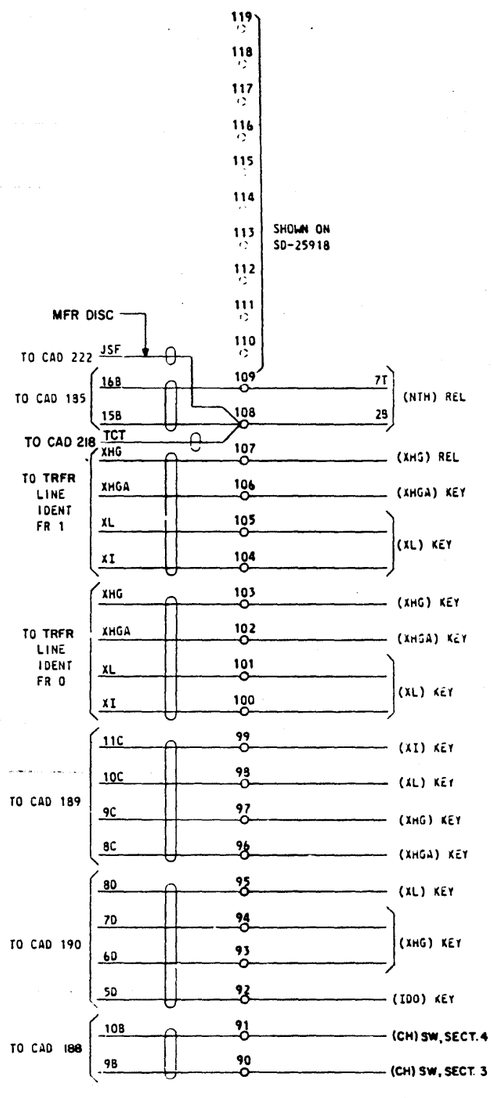
CAD 183

(FOR APP FIG. 2,10,14,31,34,66,86,8148)









DRAWING ISSUE	
51D	RWD MAD AMD
56D	CL CTNL AMD
57A	CL CTNL AMD
58D	SKY MAD AMD
59A	SKY MAD AMD
61A	NLF ASL AMD
63D	CP RLY AMD
67D	CWK
71D	DLB
73D	
76D	
78D	

ISSUE 103A

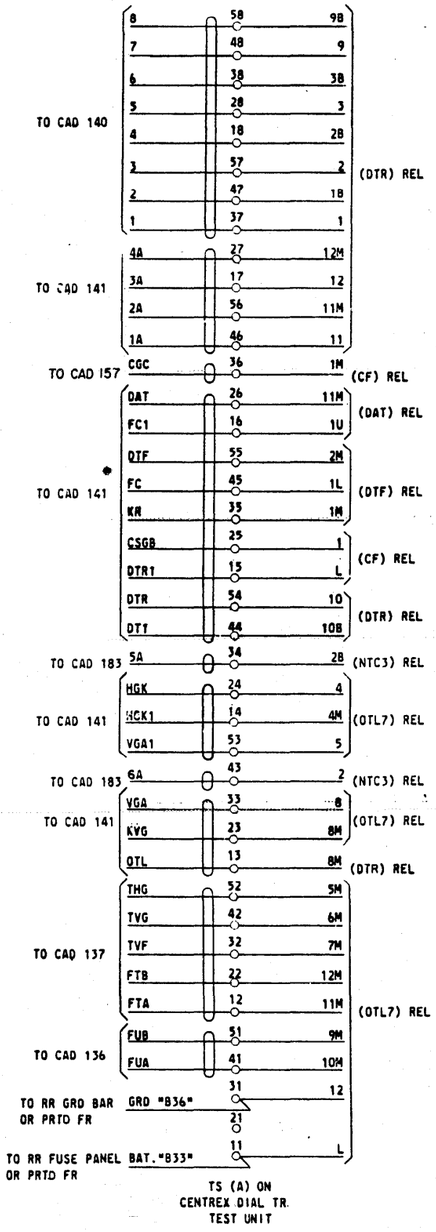
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G50A

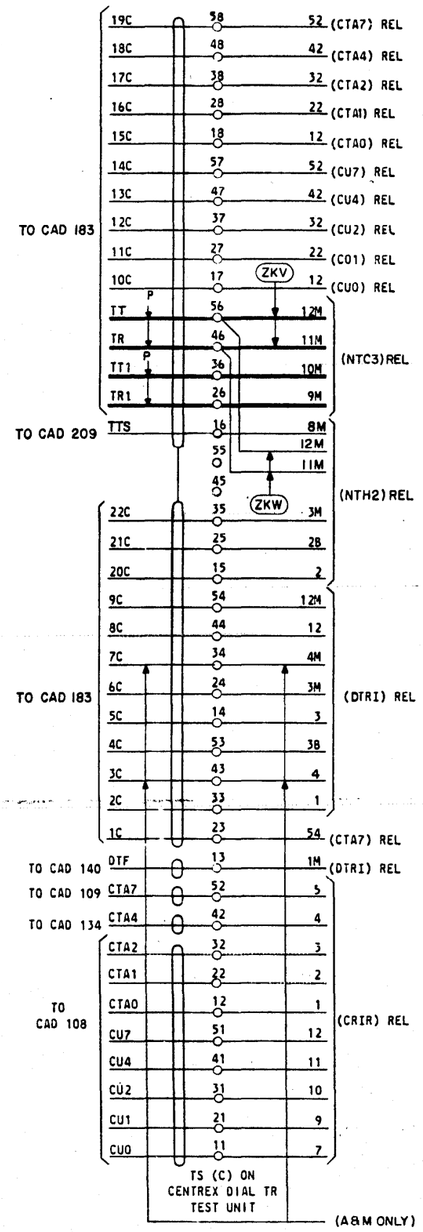
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G50A

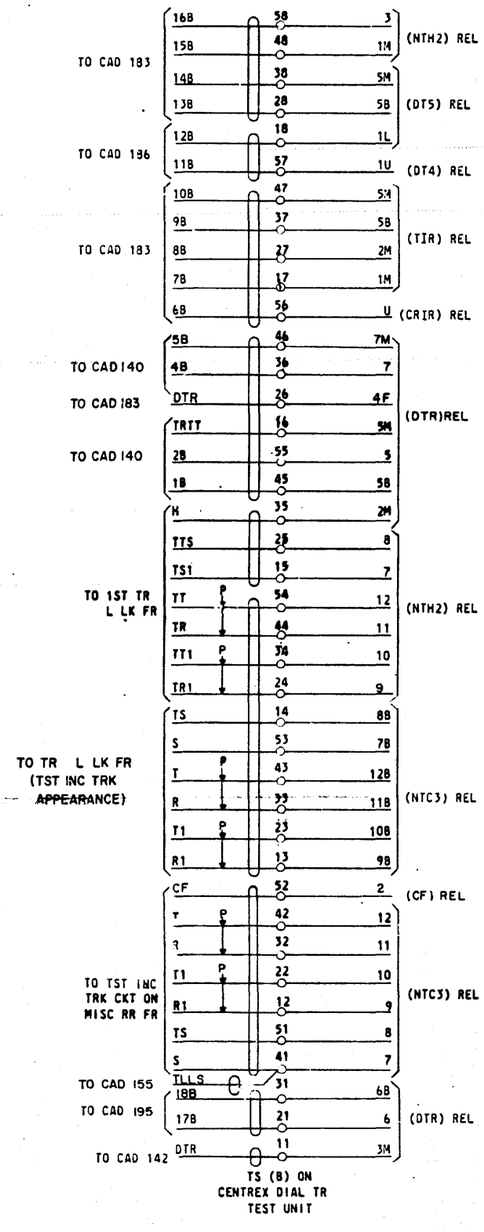
STABILOK

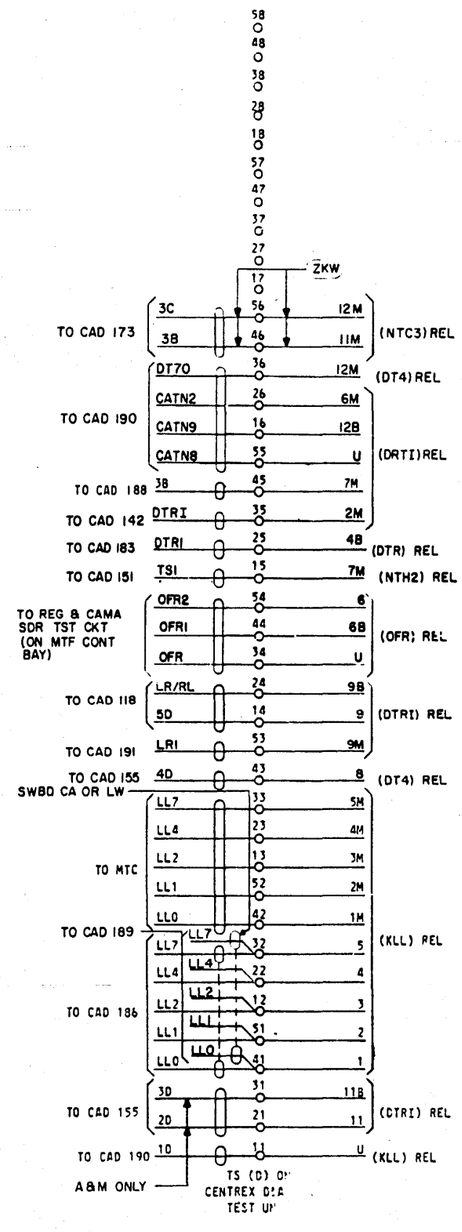
CAD 184
(FOR APP FIG. 86)





PART OF CAD 185
(FOR APP FIG. 86)





DRAWING ISSUE
53D
56D
57A
59A
61A
63D
64A
66A
67D
72A
73D
74A
76D
77A
78D
82D

ISSUE 98B

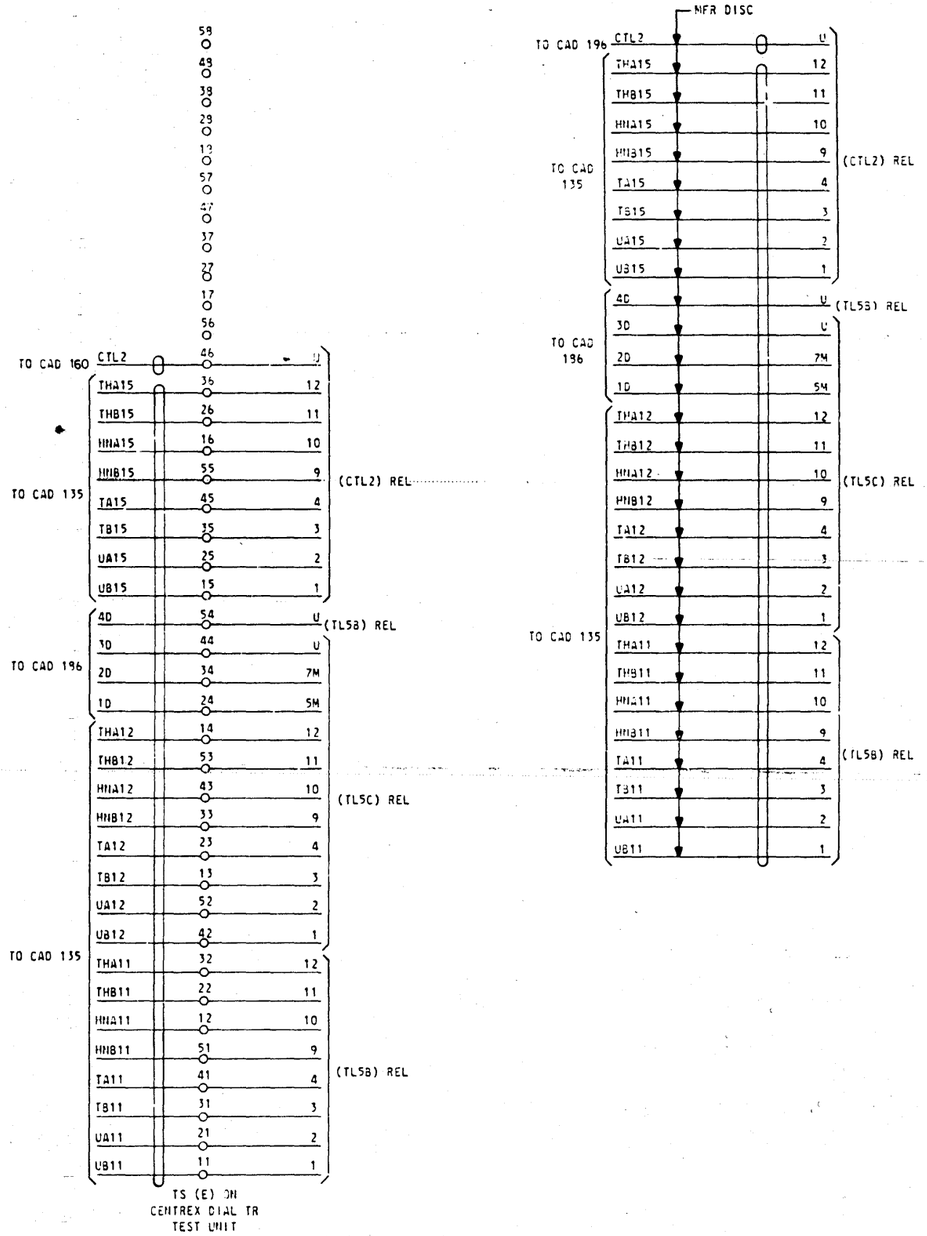
MASTER TEST CONTROL CIRCUIT (2)
SD-25800-01-G51A
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-25800-01-G51A

STABILO K+E

PART OF CAD 185

(FOR APP FIG. 86)



DRAWING ISSUE

61A

61

MASTER TEST CONTROL CIRCUIT

2

SD-25800-01-G51B

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

SD-25800-01-G51B

HIGGINS 4465

CAD 186
(FOR APP FIG. 3, 86 & 87)

TO CAD 222 — VG2, VGO — MFR DISC — TO CAD 188

HG4 39 10B — HG2 38 8B — HG1 37 4B — HGO 36 2B — VG10 35 2T — VG7 34 4T — VG4 33 6T — VG2 32 8T — VG1 31 10T — VGO 30 12T — (KVHG) REL

TO TRIC CKT ON T-LI FR — FU7 29 10B — FU4 28 8B — FU2 27 6B — FU1 26 4B — FUO 25 2B — FT3 24 2T — FT2 23 4T — FT1 22 6T — FTO 21 8T — (KFTU) REL

MTP 20 — TO CAD 172
19A 19 — (TRT) KEY
F 18
18A 17 — 9T — (KFTV) REL
17A 16 — 3T — (MOI) REL
TO CAD 187 — 16A 15 — 10T — (KFTU) REL — CUT STRAP WHEN LINE IDENT TST UNIT IS PROVIDED
15A 14 — 1T — (N) REL
14A 13 — 6T — (LTI) REL
13A 12 — (DTF) KEY
12A 11 — SECT.1 — (VF) SW
TO CAD 222 — 11A 10 — SECT.2 — 9AI 10A 09 — SECT.1 — (HG) SW
9AI 9A 08 — 8AI 8A 07 — (VGTI) KEY
7A 06 — SECT.2 — 6A 05 — SECT.1 — (FU) SW
5A 04 — SECT.2 — 4A 03 — SECT.1 — (FT) SW
3A 02 — 6B — (REC) REL
2A 01 — 1B — 1A 00 — 3B — (LIDK) KEY
TS (CTX) ON CONTROL BAY

12AI — (TAMA) KEY OR SECT I (VF) SW
TO CAD222 — 12A — 8T — (VERI) REL
9A — 2D — 8A — 2A — (VGTI) KEY
WHEN WIDEBAND SERVICE IS PROVIDED — ADD / OMIT
MFR DISC

TO CAD 237 — CWTHI
TO CAD 185 — 2D 79 — 7M — 1D 78 — 5M — (TTL5) REL
TO CAD 187 — 26A 77 — 5B — (MC) REL
25A 76 — (X1) KEY
TO MTF RST BAY — KCS
KCS 75 — TO CAD 172
TO CAD 187 — 24A 74 — (TRT) KEY
TO TR REG FR — ST1 73 — (ID1) KEY
STO 72 — (ID0) KEY
TO DAS CKT OR TO DAS ETS CKT — TRP
6C 71
TO CAD 189 — 5C 70 — (LIOF) LP
4C 69 — 9B — (VER2) REL
3C 68 — (LIOM) LP
2C 67 — 11B — (VER2) REL
1C 66 — (REC) KEY
S1 65 — (S) RES
S 64 — 5T — (LTI) REL
ADD WHEN CALL WAITING IS PROVIDED

TO LINE IDENT PWR SUPL CKT ON RR VIA PRTD FR — LI-TP 63
TO TR REG FR — TST 62
ST 61
TRIC 60
XHGA 59
TO TRIC CKT ON T-LI FR — XHG 58
XL 57
XI 56
CUT STRAP WHEN LINE IDENT TEST UNIT IS PROVIDED
TO CAD 185 — LL7 55 — (CH) SW, SECT. 4
TO CAD 189 MFR DISC OR CAD 207 — LL4 54 — LL2 53 — LL1 52 — LLO 51 — (CH) SW, SECT 3
VF4 50 — 5B
TO TRIC CKT ON T-LI FR — VF3 49 — 7B
VF2 48 — 9T — (KVF1) REL
VF1 47 — 7T
VFO 46 — 5T
TO CAD 189 — 12B 45 — 9M
TO CAD 185 — 11B 44 — 7M — (MCI7) REL
MFR DISC — VFO
TO CAD 222 — CSG2 43 — 12T — (TS3) REL
TO CAD 256 — CSG2 — 21A 42 — 1B — (KCSO) REL
CUT STRAP WHEN LINE IDENT TST UNIT IS PROVIDED
WHEN ETS IS PROVIDED — ADD / OMIT
20A 41 — 5B — (MC4) REL
TO CAD 187 — HG7 40 — 10B — (KVHG) REL
TO CAD 188 — HG7
TO TRIC CKT ON T-LI-FR — HG7
TS (CTX) ON CONTROL BAY

TO CAD 190 — CATN5 38 — CATN3 1B — CATN6 3C — (CATN) KEY
TO CENTREX ATTENDANT TRK TEST UNIT (REL RK FR) — CATN 5B

SHOWN ON SD-25988-01
119
89
TO TRIC CKT IDENT PART ON T-LI FR — FOR OTHER CONNECTIONS SEE SD-25988-01 AND SD-25680-01
RI 88
TO CAD 189 9J — 10T 87
TO CAD 189 10T
88 86 — (LIDK) KEY
TO CAD 188 — 7B 85 — 2B 84 — (LLAT) LP
TO CAD 189 7C 93 — 6,7T — (CON) REL
TO CAD 198 7C
TO CAD 188 1B 82 — 6T — (IT) REL
40 81 — (CTLB) KEY
TO CAD 185 — 3D 80 — (CTLC) KEY
MFR DISC — TS (CTX) ON CONTROL BAY

DRAWING ISSUE
33D EM 2M AH
56D DR 7M AB
67A AB AG
58D CG
59A CG
61A NF AB AT MS AP AW
64A MS AP AW
73D
74A
76D
77A
78D

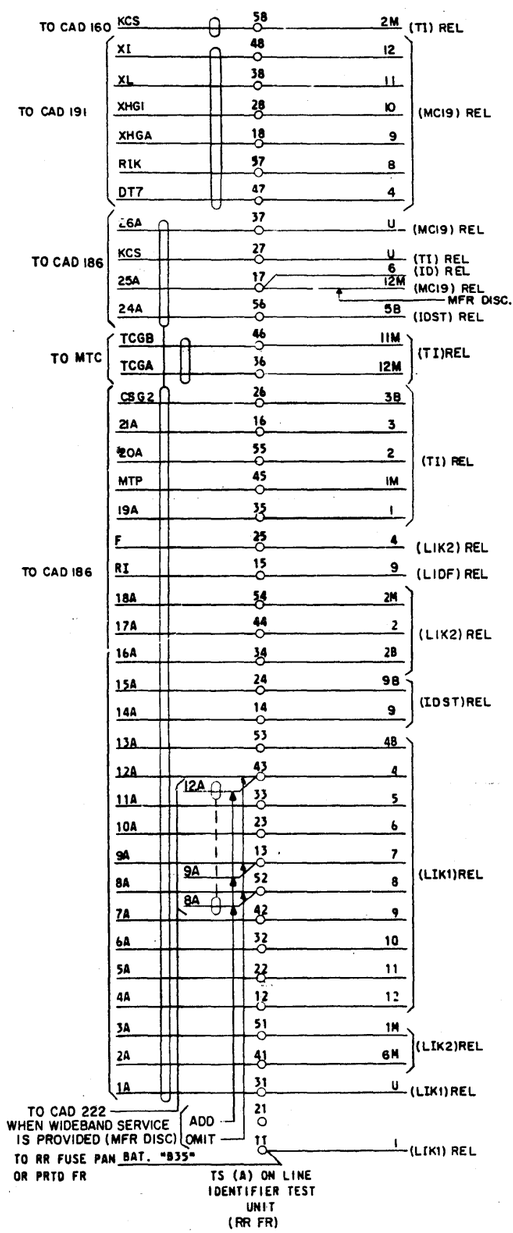
ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) — SD-25800-01-G52
BELL TELEPHONE LABORATORIES INCORPORATED — 6S

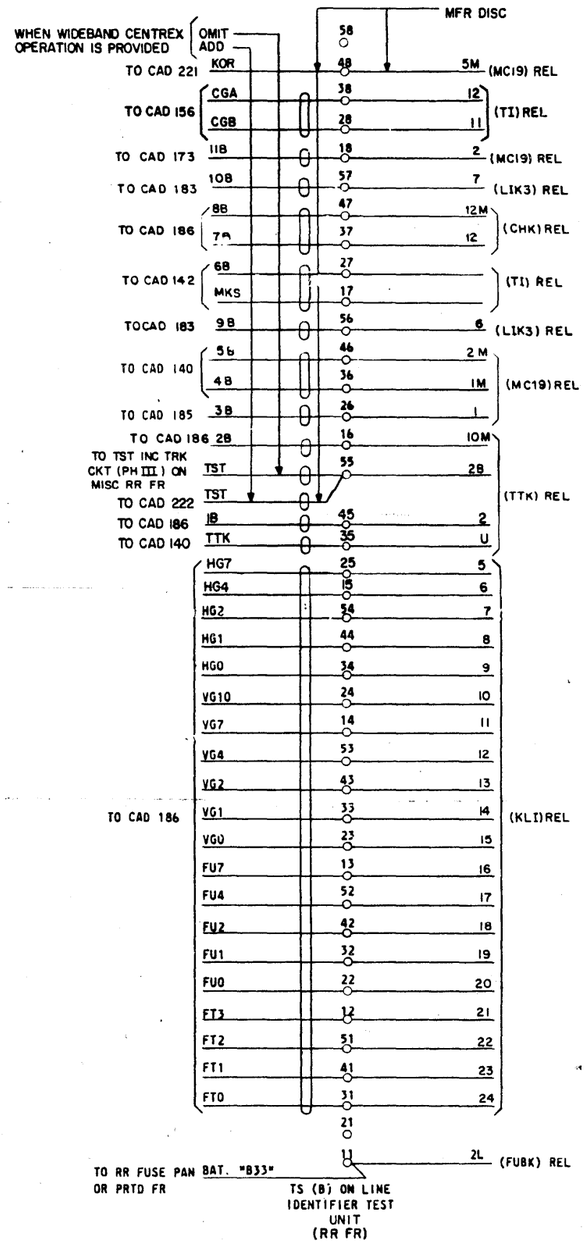
SD-25800-01-G52

STABILO

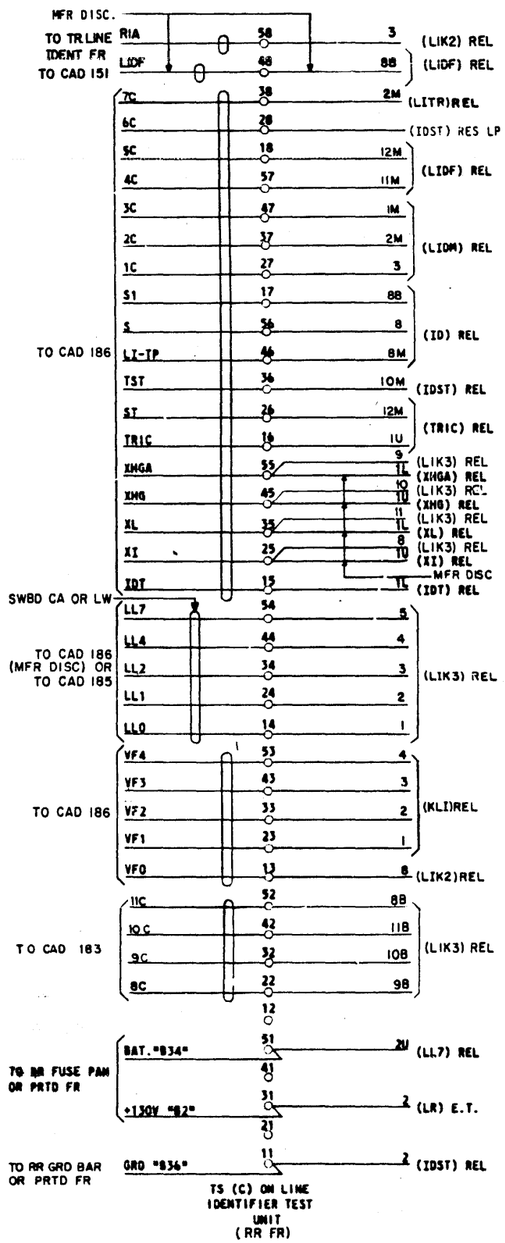
CAD 187
(FOR APP FIG. 87)



CAD 188
(FOR APP FIG. 87)



CAD 189
(FOR APP FIG. 87)



DRAWING ISSUE

53D	ELM ONLY AND
56D	PET FILM AND
57A	WIRE FILM AND
59A	JUMP AND
61A	MEM ASS AND
64A	BEM SUB AND
68A	CAM
69D	SCR
72A	SSK
73D	
74A	
76D	
79A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G53

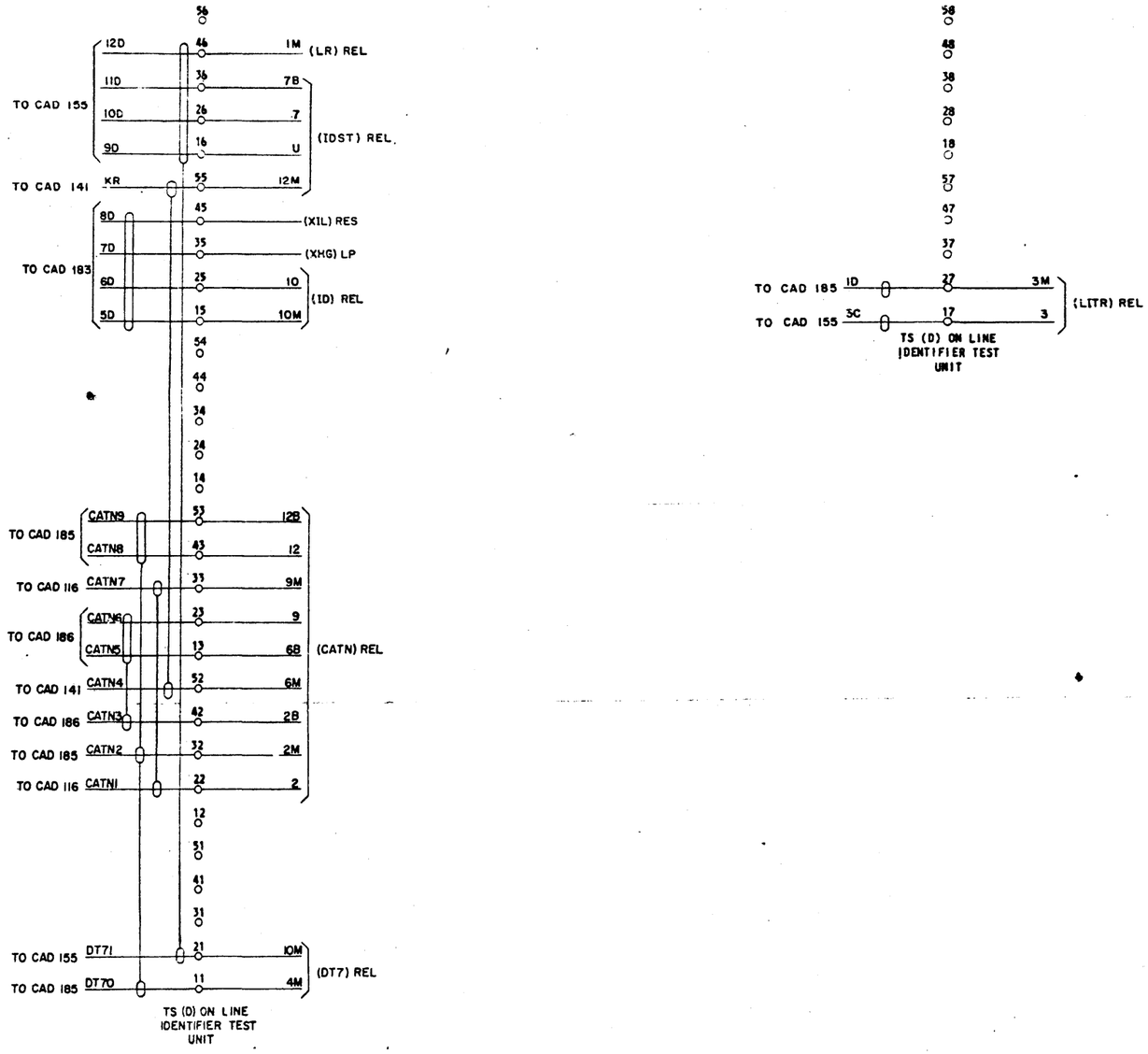
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G53

STABILO

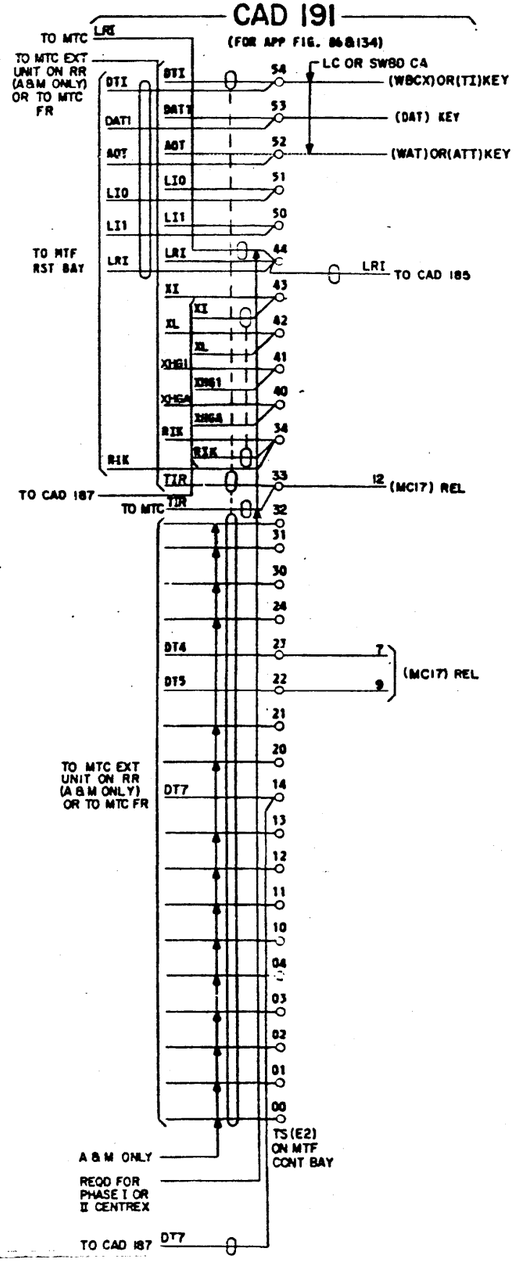
CAD 190

(FOR APP FIG. 87)



CAD 191

(FOR APP FIG. 86&134)



DRAWING ISSUE	
93D	
86D	
87A	
89A	
61A	
73D	
76D	

ISSUE 94D

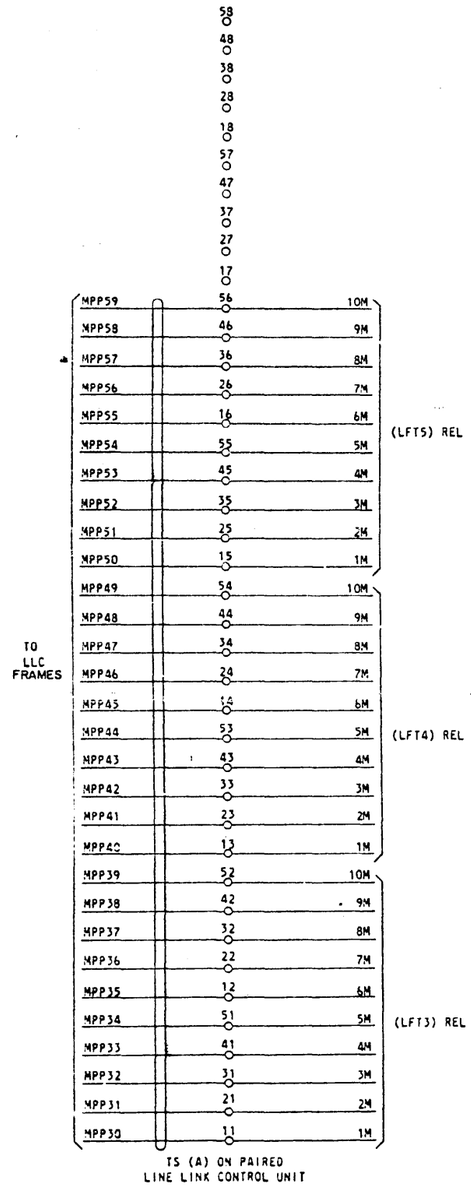
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G54

BELL TELEPHONE LABORATORIES INCORPORATED SHEET SIZE 6S

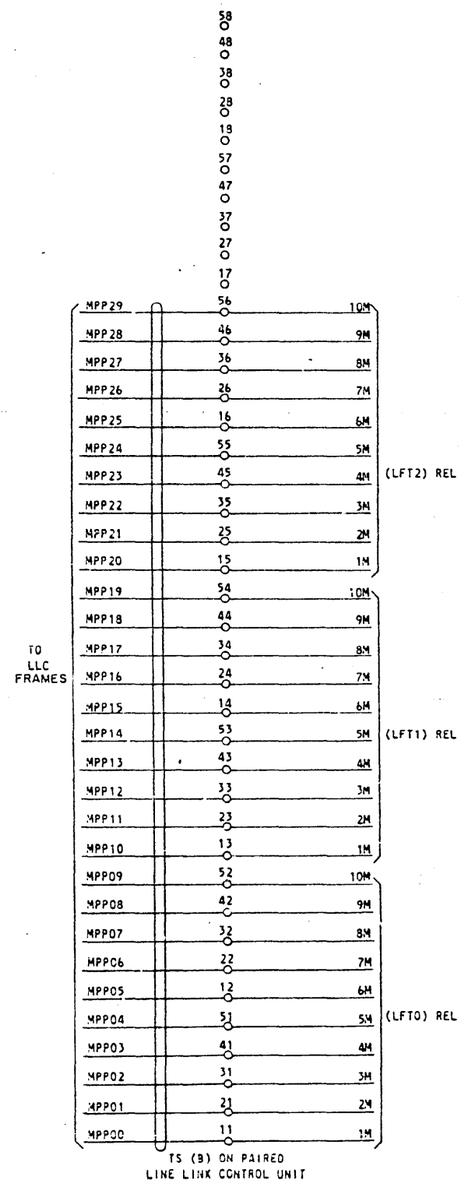
SD-25800-01-G54

STABILO

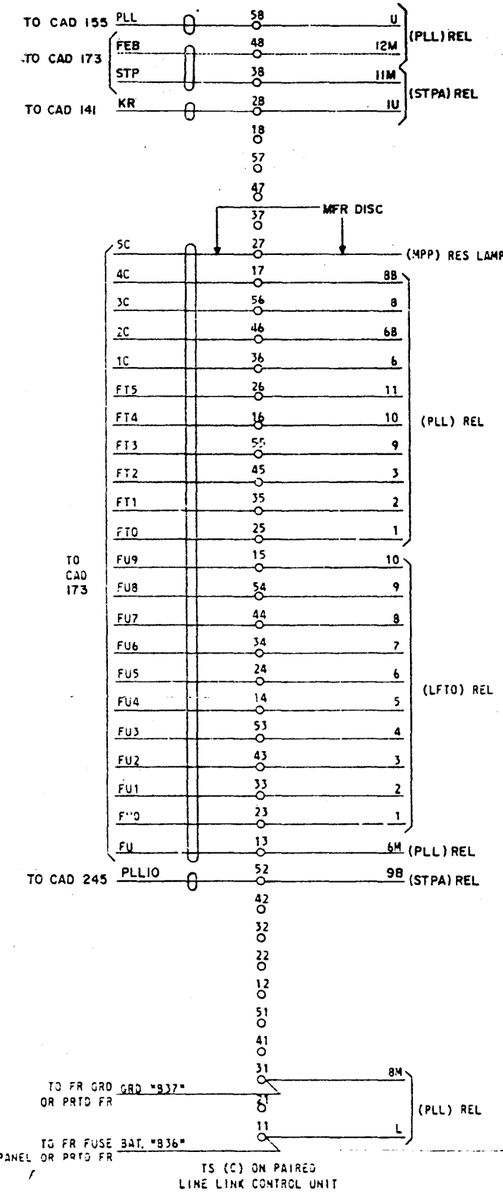
CAD 192
(FOR APP FIG. 90)



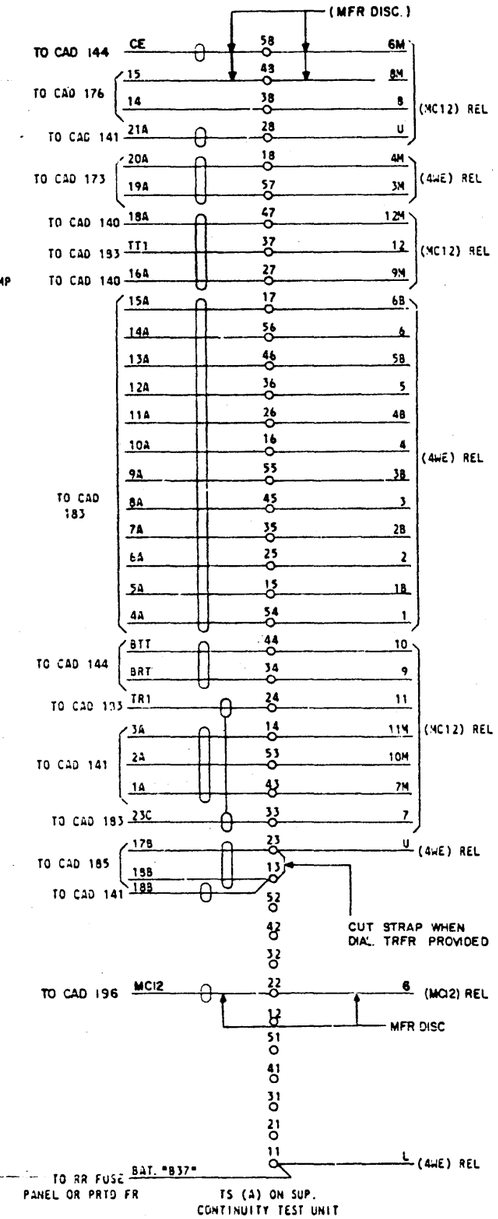
CAD 193
(FOR APP FIG. 90)



CAD 194
(FOR APP FIG. 90)



CAD 195
(FOR APP FIG. 94)



ISSUE 94D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G55

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G55

CAD 196

(FOR APP FIG. 1,2,3,4,6,7,11,13,25,49,55,58,60,61,62,65,74,86,98,99,101,103,107,163 & K)

PART OF CAD 197

(FOR APP FIG. 98, 99 & 107)

TO CAD 218 — 5DG4 48, 5DG5 5B, FUA 1 — (5DG) KEG, (FU) SW SECT. 2

SHOWN ON SD-25918-01

MFR DISC

TO CAD 222 DAPI3 — 30

TO FIRST COMPL MKR CKT ALB — 29 — 2C (ALB) KEY

TO MTC CNT — 28 — 5B (KIC1) REL

SHOWN ON SD-25918-01

TO CAD 204 NGBS — 27

TO AUX LVT UNIT RR AF — 26

LOOP AT UNEQUIPPED POSITION — 25 — 1B

TO CAD 203 DAPI3 — 24 — 3T (INC) REL

DAPI2

TO MTC EXT UNIT ON RR AF — 23 — 7B

TO CAD 200 AF — 22 — 8B (TS4) REL

TO COMPL MKR CKT NGBS — 21 — 3D (NGBS) KEY

TO MTC CKT OLT — 20 — 6T (MC2) REL

XLS — 19 — (SKTK) KEY

NPC — 18 — 11T (MC15) REL

TO MTC CKT STS5 — 17

STS4 — 16

STS3 — 15 — (STS) SW

STS2 — 14

STS1 — 13

STG — 12 — 9T (MC15) REL

TO 4W TL PRMT CKT SK — 11 — (SKTK) KEY

TO 4W L LK FR SK — 10 — (SKAL) KEY

LRF — 9 — (4WLL) LP

TO CAD 177 LO4 — 8 — 3T (SRT1) REL

TO CAD 195 RR UNIT MC12 — 7 — 3A (CCM) KEY

TO 4W TL CKT (SEE NOTE 318) FA(2) — 6 — 1B

FA(1) — 5 — 3B (TM1) REL

TO CAD 200 FAX — 4 — 8T (LT) REL — MFR DISC

FA — 3 — FA TO CAD 116

9B

TO CAD 177 10B — 2 — 12B (MC5) REL

9B — 1 — 3B (LT) REL

TO CAD 174 TO CAD 176 LDN1 — 0 — (TERT) SW SECT. 1

LDN1

TO 4W MULTILEVEL PREEMPTION TRK TEST CKT (SEE NOTE 318) FA — RUN WHEN 4W NOT PROVIDED

TS (CONT H) ON CONTROL BAY

OMIT WHEN CALL WAITING IS PROV

TO CAD 201 LLF — 3B (TM1) REL

TO CAD 237 CWTL2

CWTL1

ADD WHEN CALL WAITING IS PROV — MFR DISC

TO CAD 222 KRC2 — (KRC1) REL

3DC — (TTL1) REL

CNTX — (CNTX) OR (TTL) KEYS OR (4WA) REL

TO CAD 204 NG2S — 3C (NG2S) KEY

TO LINE VERIF TEST CKT — TO CAD 239 KR — TA — 79 — 3D (DAPA) KEY

TO DIR ACS PRT CONN CKT 1 — TA — DAC — 78 — TO TS(CONT H), PCHG 81

TB — 77 — 3B (DAPB) KEY

TO DIR ACS PRT CONN CKT 0 — TA — 76 — 3A (DAPA) KEY

DAC — 75 — LOOP AT UNEQUIPPED POSITION — 2B (TS11) REL

TO CAD 207 KR — 74 — 1B

DAC — 73 — 5D (TCLC) KEY

TC — 72 — 6T (KR) REL

KR — 71 — 5D

TA2 — 70 — 2D (DAPA) KEY

TA1 — 69 — 2A

TA0 — 6A

TO CAD 203 — TCLC0 — 68 — 3D (TCLC) KEY

CCSA1 — 67 — (CCSA) LP

POTS1 — 66 — (POTS) LP

DAPA — 65 — 5A (DAPA) KEY

DAPB — 64 — 13T (LV) REL

DAPA1 — 63 — 4A (LLPT) KEY

TO CAD 237 — SHOWN ON SD-25918-01 — 62 — MFR DISC

TO CAD 222 W10 — OMIT WHEN WIDEBAND IS PROVIDED

W10B

TO CAD 200 KLT — 61 — 2T (KLT) REL

TO CAD 201 NG2K — W10B — 60 — 5D (NG2K) KEY

W10

TO CAD 203 TCLC3 — (-135) — 59 — 2T (RCK) REL

TCLC2 — 58 — 2T — REMOVE WHEN MLP IS PROVIDED (CSK) REL

TCLC1 — 57 — 1A (RIP) KEY

MFR DISC — TTL9 — (102) — 56 — (KRC1) REL

G — 55 — TO CAD 250 (3DC) KEY

F — 54 — TO CAD 208 (OTL1) REL

E — 53 — (TM1) OR (4WA) OR (KF2) OR (MC4) REL

D — 52 — (OTL2) REL

C — 51 — (4WA) OR (OTR) OR (MC4) REL

B — 50 — (TTL1) REL

A — 49 — (CNTX) OR (TTL) KEY OR (4WA) REL

TO CAD 202 — 20 — 48 — (K2) REL

T(1)B — 47 — T(1)F — T1

R(1)B — 46 — R(1)F — R1

S(1)B — 45 — S(1)F — S1

LT — 44 — LT

LR — 43 — LR

LS — 42 — LS — TO CAD 116

T(1)C — 41

TO CAD 203 R(1)C — CR MFR DISC.

S(1)C — 40

TO CAD 241 TAOC — SHOWN ON SD-25918-01

TS (CONT H) ON CONTROL BAY

RUN WHEN 3-DIGIT CALLING AND LINE LINK PULSING IS PROVIDED AND DIRECT ACCESS TO 101 ESS IS NOT PROVIDED.

RUN WHEN 3-DIGIT CALLING IS PROVIDED AND DIRECT ACCESS TO 101 ESS, LINE LINK PULSING, & AIS WITH DEDICATED SENDERS ARE NOT.

STARP WHEN DIR ACS PRT CONN IS NOT PROVIDED

MFR DISC

SHOWN ON SD-25918-01

TO CAD 237 CWLT2 — 119

CWLT1 — 118

KR — 117

CW2D — 116

CW2C — 115

TO CAD 222 KR — 114

TO CAD 203 DAP9 — 113

DAP10 — 112

TMI — 111

TO CAD 202 DAP7 — 110

DAP6 — 109

TO CAD 203 DAP5 — 108

DAP4 — 107

DAP1U — 106

TCLB — 105

LRR3 — 104

LRR2 — 103

TO CAD 207 LRR1 — 102

LLPK — 101

TS — 100

TO FIRST COMPL MKR 4W PREEMPTION FR ALBI — 99

TO CAD 203 DAPI4 — 98

DAPI5 — 97

TCC — 96

TCC — TCC — 95

TCB — 94

TCA — TCA — 93

CCSA — 92

CCSA — CCSA — 91

POTS — 90

POTS — POTS — 89

CB2 — 88

CB2 — CB2 — 87

CA2 — 86

CA2 — CA2 — 85

CB1 — 84

CB1 — CB1 — 83

CA1 — 82

CA1 — CA1 — 81

CB0 — 80

CB0 — CB0 — 79

CA0 — 78

CA0 — CA0 — 77

TB — 76

TO DIR ACS PRT CONN ON RR CKT 2 TB — TA — 75

DAC — 74

TO DIR ACS PRT CONN CKT 1 TB — TB — 73

TO LINE VERIF TST CKT

TO CAD 203

TO COMPL MKR NO. 1 OT. ESS DIRECT ACCESS CKT

TS (CONT H) ON CONTROL BAY

STRAP WHEN DIRECT ACCESS TO NO. 101 ESS IS NOT PROVIDED

MFR DISC

10T (KR) REL

3B (TCLB) KEY

9B (TMI) REL

5A (TCLA) KEY

13T (LT) REL

OMIT WHEN CALL WAITING IS PROV — 9 (TSTB) SW, SECT. 1

12T

13T (LTI) REL

2C (TCLB) KEY

5B

6B (KTS) REL

2C (NG2K) KEY

10T (LLPK) REL

3T (TSI2) REL

3C (ALB) KEY

LOOP AT UNEQUIPPED POSITION

3T

4T (TKTI) REL

MFR DISC

6D (TCLC) KEY

3C

1C (TCLB) KEY

3D

12B (TCLA) KEY

11B

10B

7B (TS11) REL

6B

5B

4B

3B

2B

1B

6C (DAPB) KEY

6D (DAPA) KEY

TO TS (CONT H), PCHG 78

3C (DAPB) KEY

MFR DISC

ML22 — 36 (TKT) REL

ML21 — 28 (LTI) REL

ML20 — 9T

ML19 — 10T (TKTI) REL

TO CAD 200 ML18 — 5T (MC2) REL

ML17

ML16 — (ATMT) SW SECT 2

ML15 — 1T (TERK) REL

21B — (E1) LP

20B — 1B (MTT) REL

19B

TO CAD 201 18B — (MTTA) KEY

17B

11A — (SKFT) LP

10A — (SKAL) KEY

9A — (SK80) LP

8A — (SKAO) LP

7A — (SK5) LP

TO CAD 199 6A — (SK4) LP

5A — (SK3) LP

4A — (SK2) LP

3A — (SK1) LP

2A — (XSK) LP

1A — (SKS) LP

210 — 10

200 — 9

190 — 8

180 — 7

170 — 6

160 — 5 — (T8U) SW

150 — 4

140 — 3

130 — 2

120 — 1

110 — 10

100 — 9

TO CAD 204 90 — 8

80 — 7

70 — 6

60 — 5 — (T8T) SW

50 — 4

40 — 3

30 — 2

20 — 1

10 — 11 (T8U) SW

24A — TU (PRI) REL

23A — (TPO) LP

22A — (TP2) LP

21A — (LPO) LP

TO CAD 198 20A — (LP1) LP

19A — (LP2) LP

18A — 10B (KR) REL

17A — (ARL) LP

16A — 4B (F) REL

TO CAD 177 TP1 — (TP1) LP

TS — 1B (TS) REL — A & M ONLY

TO CAD 222 WBA — 8T (TMI) REL

WBT — 8B

TO MTF CONN CKT L — 10B (TS) REL

TO CAD 251 PST8 — (RAU) SW SECT. 1

ISSUE 102B

DRAWING ISSUE

58D SAV AND

60D PED TWJ AND

61A JNP ASJ AND

62D JNR ASJ AND

63D JJD RLP AND

64A JJD RLP AND

66A LP AND

71D DLB

73D

74A

76D

77A

78D

82D

83A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G56

BELL TELEPHONE LABORATORIES INCORPORATED 6S

STABILO

SD-25800-01-G56

PART OF CAD 197

(FOR APP FIG. 1, 4, 9, 11, 13, 58, 65, 98, 99, 110, 112 & 162)

TO CAD 214 TKT3 — 12T (TKT3) REL
TO CAD 237 CWLT8 — ADD WHEN CALL WAITING IS PROVIDED AND OMIT OFFICE IS NOT ARRANGED FOR 4 WMLP
TO CAD 178 CBRL — (CBRL) LP
ALB4 — 3B (ALB) KEY
ML14 — 9T (RIP) REL
ML13 — 12B (KLT) REL
MTTK — 12B (KRI) REL
ML10 — 2T (KLTI) REL
ML8 — (PL8) LP — REMOVED WHEN AUTOVON IS PROVIDED
TO CAD 200 ML7 — (KTS) REL
ML6 — (TT) LP
ML5 — 1T
ML4 — 10T (TKT3) REL
ML3 — 1T
ML2 — 2B (TM1) REL
ML1 — 4B (TBSK) REL
1B — 8T (KR) REL
2B — 4T (RAP1) REL
3B — (RAU) SW SECT. 3
4B
5B (RAT2) KEY
6B
7B (RAT1) KEY
KR1 — 9B (KR1) REL
8B — 1T (P5A) REL
9B — 6T (P3A) REL
10B — 3T (RAP5) REL
TO CAD 201 11B — (RAO) LP
12B — (RAT1) LP
13B — (RAT2) LP
14B — (FP) LP
15B — 2B (OGT) REL
16B — 9M (ATNT) REL
CDP1 — 12 SECT 3
CDP15 — 12 SECT 4 (APU/CDPU) SW
CD1 — 12 SECT 3
CD15 — 12 SECT 1 (BPU/CDU) SW
4WM — 3B (4WM) KEY
CDA0 — 6
CDA1 — 2 SECT 1 (CPU/CDA) SW
CDA4 — 12 SECT 3
CDA7 — 12 SECT 4
IR — 4B (IR) REL
ALB2 — 1B (ALB) KEY — MFR DISC
TO CAD 198 SK8 — (LO) KEY
SK7 — (NTLS) KEY
SK6 — (S) SW SECT
SK5 — (SKAL) KEY
SK4 — 10B
SK3 — 9B (MTT) REL
SK2 — 6T (VER6) REL
TO CAD 199 SK1 — (SKAL) KEY
SK9 — 10T (LV) REL
SK10 — 7B (DCT) REL
SK11 — (SKAL) KEY
SK12
SK13 (SKTK) KEY
SK15 — 13T (MC2) REL
SK14 — (STS) SW SECT 1
2C — 2C
3C — 3C (TS) KEY
TO CAD 201 1E — 7T (TS) REL
2E — 6T (MS) REL
ALB3 — 2B (ALB) KEY
TS — 1B
TO CAD 222 WBT — 8B (TS) REL
WBA — 8T (TMI) REL
MFR DISC

CAD 198 (MFR DISC)

(FOR APP FIG. 98)

TO LVT CKT
TO CAD 186 7C — 58 — 1M (SKF) REL
TO MTC CKT PRO — 48 — 7
PRE — 38 — 3 (KSK1) REL
TO CAD 155 P — 28 — 5
STL5 — 18 — 12
STL4 — 57 — 11
STL3 — 47 — 10 (MC20) REL
STL2 — 37 — 9
STL1 — 27 — 8
TO MTC CKT STL0 — 17 — 7
AFK — 56 — 3M
LRL — 46 — 9M (AF) REL
LP2 — 36 — 9
LP1 — 26 — 10 (KSK) REL
LW
LPO — 16 — 11
TO CAD 200 KR — 20A — 55 — 5M (LP1) REL
19A — 45 — 8M (LP2) REL
18A — 35 — 1M
TO CAD 197 17A — 25 — 5M (ARL) REL
16A — 15 — 1L (FD) REL
ALB2 — 54 — 2U (AF) REL
44
34
24
11A — 14 — 4B (SKFT) REL
10A — 53 — 1B (SKFP) REL
9A — 43 — 12M (SK80) REL
8A — 33 — 12M (SKA0) REL
7A — 23 — 12M (SK5) REL
6A — 13 — 12M (SK4) REL
TO CAD 197 5A — 52 — 12M (SK3) REL
4A — 42 — 12M (SK2) REL
3A — 32 — 12M (SK1) REL
2A — 22 — 4M (XSKA) REL
1A — 12 — 5M (SK5) REL
21A — 51 — 3M (LPO) REL
22A — 41 — 5M (PRE) REL
23A — 31 — 3M (PRO) REL
TO CAD 106 24A — 21 — 2M (FD) REL
11

TS (A) ON MULTILEVEL STATUS CHECK UNIT (RR)

CAD 199 (MFR DISC)

(FOR APP FIG. 98)

TO LVT CKT
TO MTC CKT — PRI — MFR DISC
TO CAD 144 PRI — 58 — 5 (KSK1) REL
MT30 — 48
TO FIRST COMPL MKR CKT SKFP — 38 — 6
SKFT — 28 — 3 (MC20) REL
BYP — 18 — 9
BYP
ON — 57 — 11 (KSK1) REL
TO 4W TL CKT ON
SKB — 47 — 8 (XSKA) REL
SKB
KSK — 37 — 2 (MC20) REL
KSK
TO 4W LINE LK CKT — 27
17
56
46
LW
TO CAD 197 SK15 — 36 — 11
TO CAD 200 SKAL — 26 — 12M (SKAL) REL
TO CAD 197 SK14 — 16 — 6B (KSK) REL
55
SK13 — 45 — 4 (MC20) REL
SK12 — 35 — 1L (SKTK) REL
TO CAD 197 SK11 — 25 — 1M (MC20) REL
SK10 — 15 — 4B
SK9 — 54 — 4 (KSK) REL
SK8 — 44 — 3 (C40) CPNT ASSY
LW
TO CAD 201 KR1 — 34 — 7
SK7 — 24 — 8B
SK6 — 14 — 9 (KSK) REL
SK5 — 53 — 1U (SKAL) REL
TO CAD 197 SK4 — 43
SK3 — 33 — 2
SK2 — 23 — 12M
SK1 — 13 — 12 (KSK) REL
52
42
32
TO CAD 201 4W1 — 22 — 9 (SKAL) REL
12
TO RR FUSE PNL OR PRTD CKT BAT "B38" — 51 — L (MC20) REL
41
+130V "B3" — 31 — (SKF) ET
21
LW
TO CAD 201 GRD "B38" — 11 — 1 (SKCK) REL
TO RR GRD BAR OR PRTD CKT GRD "B38"

TS (B) ON MULTILEVEL STATUS CHECK UNIT (RR)

DRAWING ISSUE

58D	SAV AND
61A	JNR 1.5.1 AND
63D	CP ALP AND
64A	CP ALP AND TEK 2.5 AND
66A	
76D	
77A	
78D	
83A	

ISSUE 90D

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G57

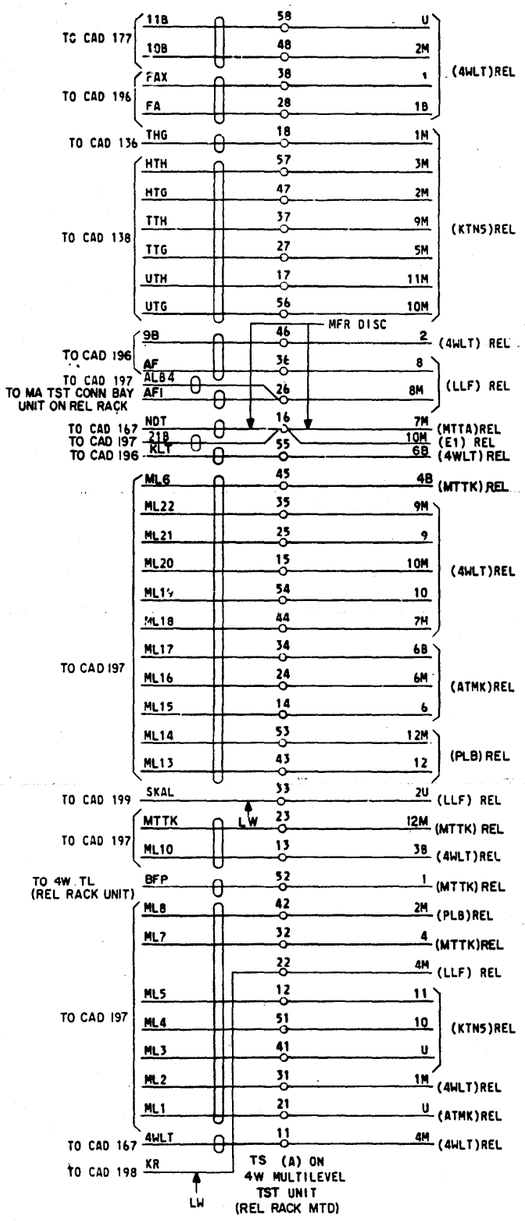
BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-25800-01-G57

STABILO

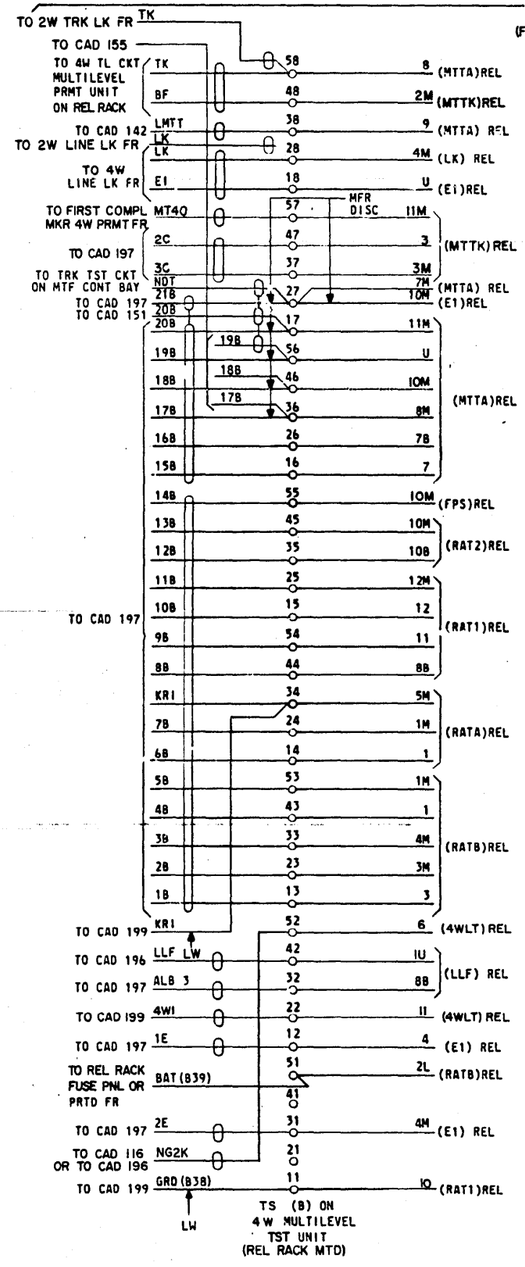
CAD 200 (MFR DISC)

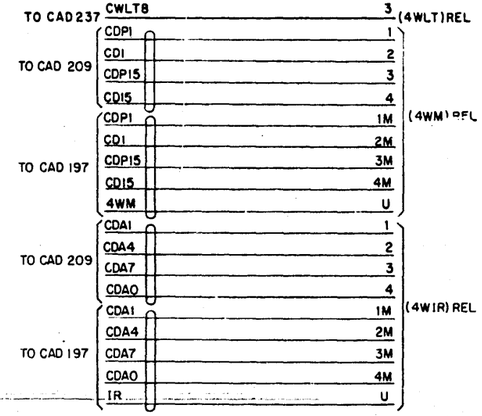
(FOR APP FIG 99 & 114)



CAD 201 (MFR DISC)

(FOR APP FIG 99 & 114)





DRAWING ISSUE	
58D	LAW
61A	ASL AHD
63D	TJD RLP AHD
64A	TJD RLP AHD
65D	KMT LS AHD
66A	KMT LS AHD
67D	RLP
70A	RLP
78D	

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-658

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

PRINTED IN U.S.A.

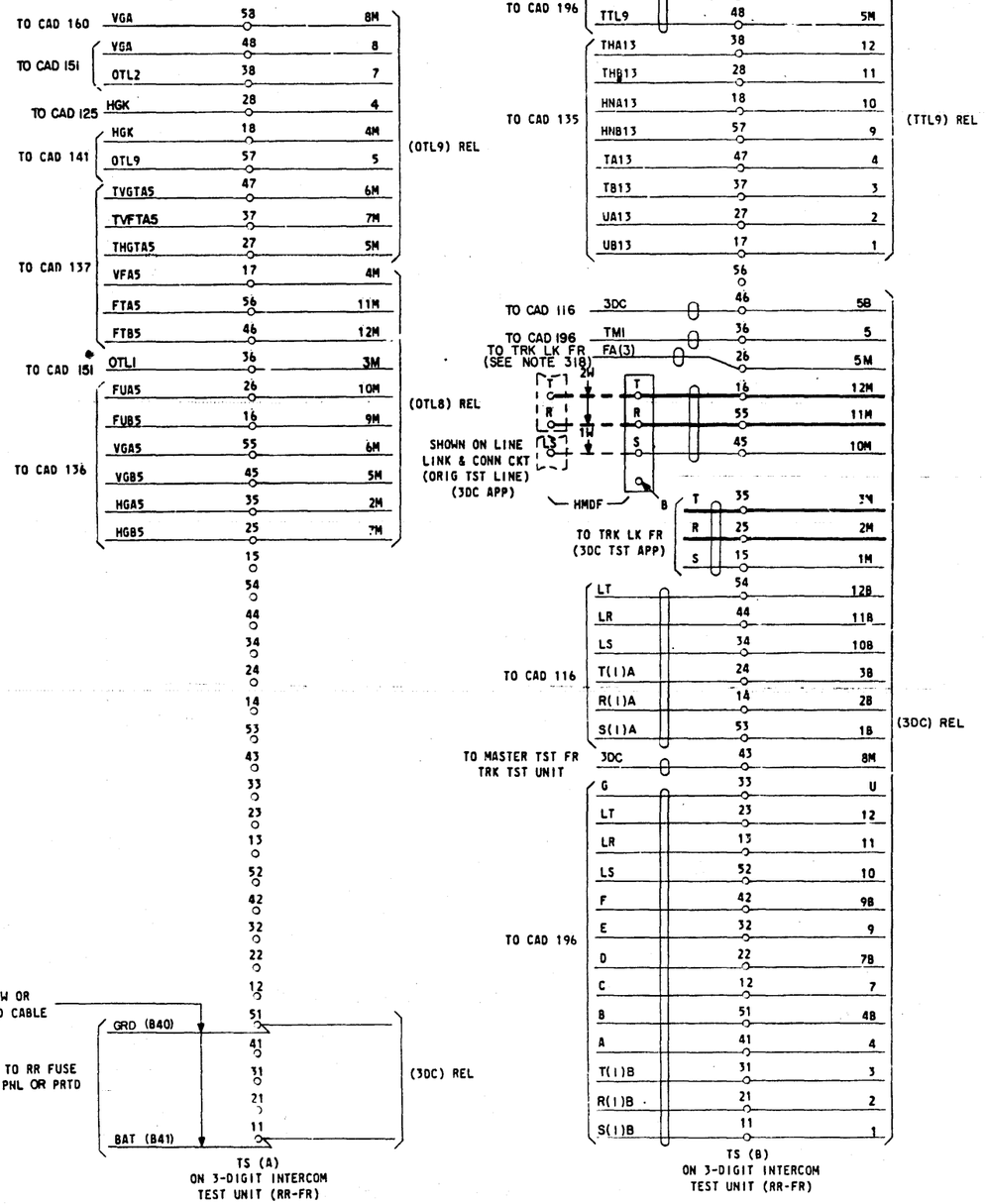
SD-25800-01-658

STABILO

CAD 202 AT&TCO SPECIAL (MFR DISC)

(FOR APP FIG. 102)

DRAWING ISSUE	
60D	RLB TWJ AHD
62D	NJC RJL AHD
63D	MKS RLP AHD
64A	TEM RLP AHD



ISSUE 88D

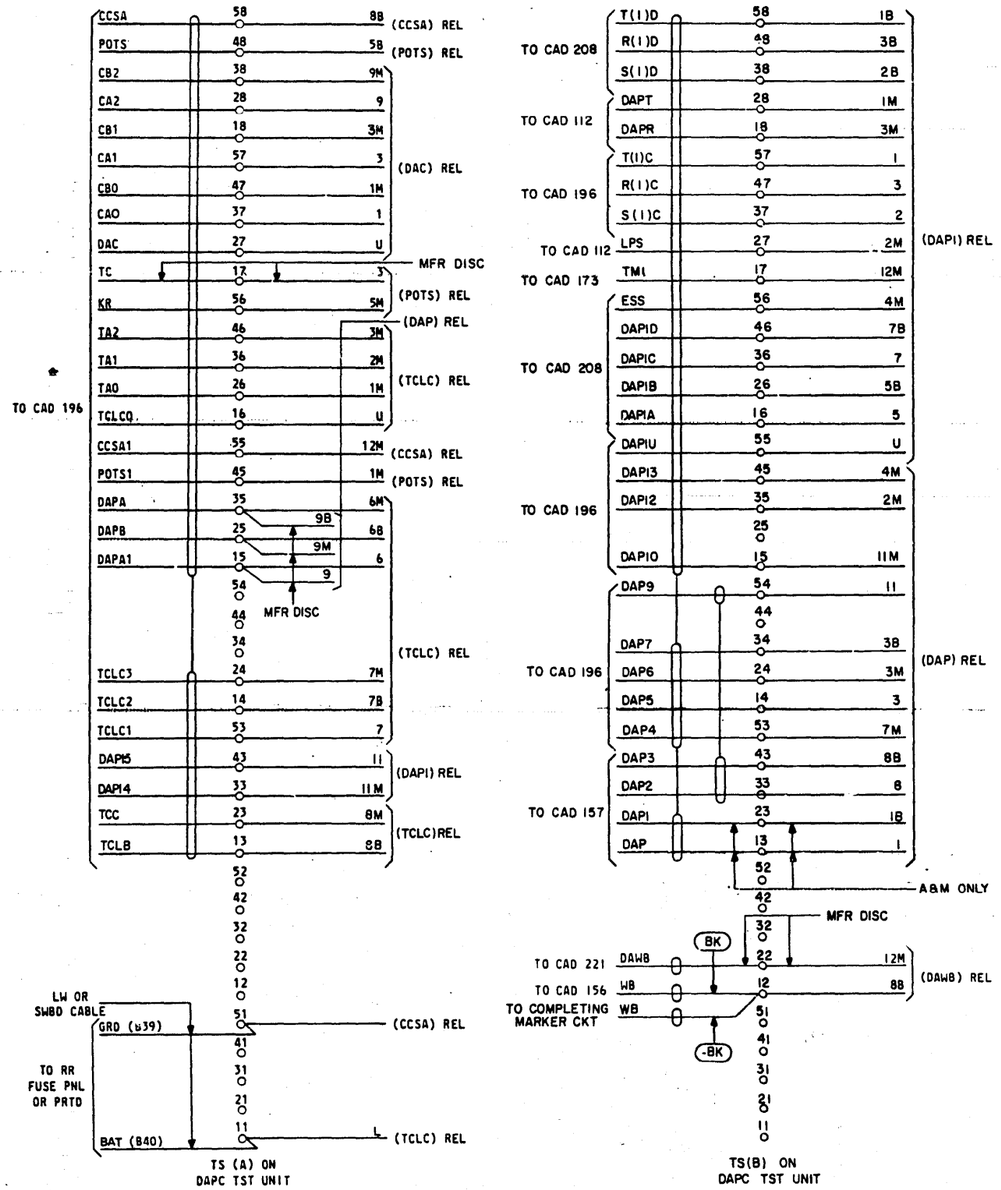
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-659

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-659

STABILO

CAD 203
(FOR APP FIG. 101)



DRAWING ISSUE	
60D	DM
62D	NJC
63D	JAS RLP AMP
66A	JEK
71D	DLB
73D	
74A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G60

BELL TELEPHONE LABORATORIES INCORPORATED SHEET 65

SD-25800-01-G60

KIMBERLY

CAD 204
(FOR APP FIG 107)

DRAWING ISSUE
64A CF REP AND
76D
80D
81A
82D

WHEN AN OFFICE THAT HAS NON-WIRE SPRING MARKERS IS ARR FOR ALLR PBX NO. GROUPS (A&M ONLY) — OMIT / ADD

TO NO. GR BLOCK SEL UNIT ON REL RACK

TB39	58	10	
TB38	48	9	
TB37	38	8	
TB36	28	7	
TB35	18	6	(TBT3) REL
TB34	57	5	
TB33	47	4	
TB32	37	3	
TB31	27	2	
TB30	17	1	
TB29	56	10	
TB28	46	9	
TB27	36	8	
TB26	26	7	
TB25	16	6	
TB24	55	5	(TBT2) REL
TB23	45	4	
TB22	35	3	
TB21	25	2	
TB20	15	1	
TB19	54	10	
TB18	44	9	
TB17	34	8	
TB16	24	7	
TB15	14	6	
TB14	53	5	(TBT1) REL
TB13	43	4	
TB12	33	3	
TB11	23	2	
TB10	13	1	
TB09	52	10	
TB08	42	9	
TB07	32	8	
TB06	22	7	
TB05	12	6	
TB04	51	5	(TBT0) REL
TB03	41	4	
TB02	31	3	
TB01	21	2	
TB00	11	1	

TS (A) ON PBX BLOCK SEL TST CONT UNIT

	58		
	48		
	38		
	28		
	18		
	57		
	47		
TO CAD 116 EXT	37		1M (ANGB) REL
	27		
TO CAD 210 ANGC5	17		2 (ANGA) REL
TO CAD 196 NGBS	56		MFR DISC
ANGC4	46		12B (ANGB) REL
TO CAD 210 ANGC3	36		10 (ANGA) REL
ANGC2	26		8 (ANGA) REL
ANGC1	16		1 (ANGB) REL
ANGC0			
TO CAD 128 PTK	55		10M (ANGA) REL
TO CAD 142 ANG	45		12M (ANGB) REL
TO COMPL MKR (CE BAY) SLCI	35		8 (ANGA) REL
SLC	25		8B (ANGA) REL
TO CAD 207 NGBS	15		2 (ANGB) REL

TO NO. GR BLOCK SEL UNIT ON REL RACK

TB59	54	10	
TB58	44	9	
TB57	34	8	
TB56	24	7	
TB55	14	6	(TBT5) REL
TB54	53	5	
TB53	43	4	
TB52	33	3	
TB51	23	2	
TB50	13	1	
TB49	52	10	
TB48	42	9	
TB47	32	8	
TB46	22	7	
TB45	12	6	(TBT4) REL
TB44	51	5	
TB43	41	4	
TB42	31	3	
TB41	21	2	
TB40	11	1	

TS (B) ON PBX BLOCK SEL TST CONT UNIT

TO NO. GR BLOCK SEL UNIT ON REL RACK

TB99	58	10	
TB98	48	9	
TB97	38	8	
TB96	28	7	
TB95	18	6	(TBT9) REL
TB94	57	5	
TB93	47	4	
TB92	37	3	
TB91	27	2	
TB90	17	1	
TB89	56	10	
TB88	46	9	
TB87	36	8	
TB86	26	7	
TB85	16	6	(TBT8) REL
TB84	55	5	
TB83	45	4	
TB82	35	3	
TB81	25	2	
TB80	15	1	
TB79	54	10	
TB78	44	9	
TB77	34	8	
TB76	24	7	
TB75	14	6	(TBT7) REL
TB74	53	5	
TB73	43	4	
TB72	33	3	
TB71	23	2	
TB70	13	1	
TB69	52	10	
TB68	42	9	
TB67	32	8	
TB66	22	7	
TB65	12	6	(TBT6) REL
TB64	51	5	
TB63	41	4	
TB62	31	3	
TB61	21	2	
TB60	11	1	

TS (C) ON PBX BLOCK SEL TST CONT UNIT

21D	58	10M	
20D	48	9M	
19D	38	8M	
18D	28	7M	
17D	18	6M	(TBT9) REL
16L	57	5M	
15D	47	4M	
14D	37	3M	
13D	27	2M	
12D	17	1M	
TO CAD 197 11D	56	U	(TBT9) REL
10D	46	U	(TBT8) REL
9D	36	U	(TBT7) REL
8D	26	U	(TBT6) REL
7D	16	U	(TBT5) REL
6D	55	U	(TBT4) REL
5D	45	U	(TBT3) REL
4D	35	U	(TBT2) REL
3D	25	U	(TBT1) REL
2D	15	U	(TBT0) REL
1D	54		(TBU) RES LP
	44		
	34		
	24		
	14		2M (ANGA) REL
FR GRD BAR — GRD (865)	53		
	43		
	33		
	23		
LW OR SWBD CABLE	13		(TBT0) REL
BAT. (B60)	52		(TBT9) RES LP
BAT. (B59)	42		(TBT8) RES LP
BAT. (B58)	32		(TBT7) RES LP
BAT. (B57)	22		(TBT6) RES LP
TO REL RACK FUSE PANEL OR POWER RINGING AND TONE DISTRIBUTING FRAME — BAT. (B56)	12		(TBT5) RES LP
BAT. (B55)	51		(TBT4) RES LP
BAT. (B54)	41		(TBT3) RES LP
BAT. (B53)	31		(TBT2) RES LP
BAT. (B52)	21		(TBT1) RES LP
BAT. (B51)	11		(TBT0) RES LP
BAT. (B50)			

TS (D) ON PBX BLOCK SEL TST CONT UNIT

ISSUE 87A

MASTER TEST CONTROL CIRCUIT

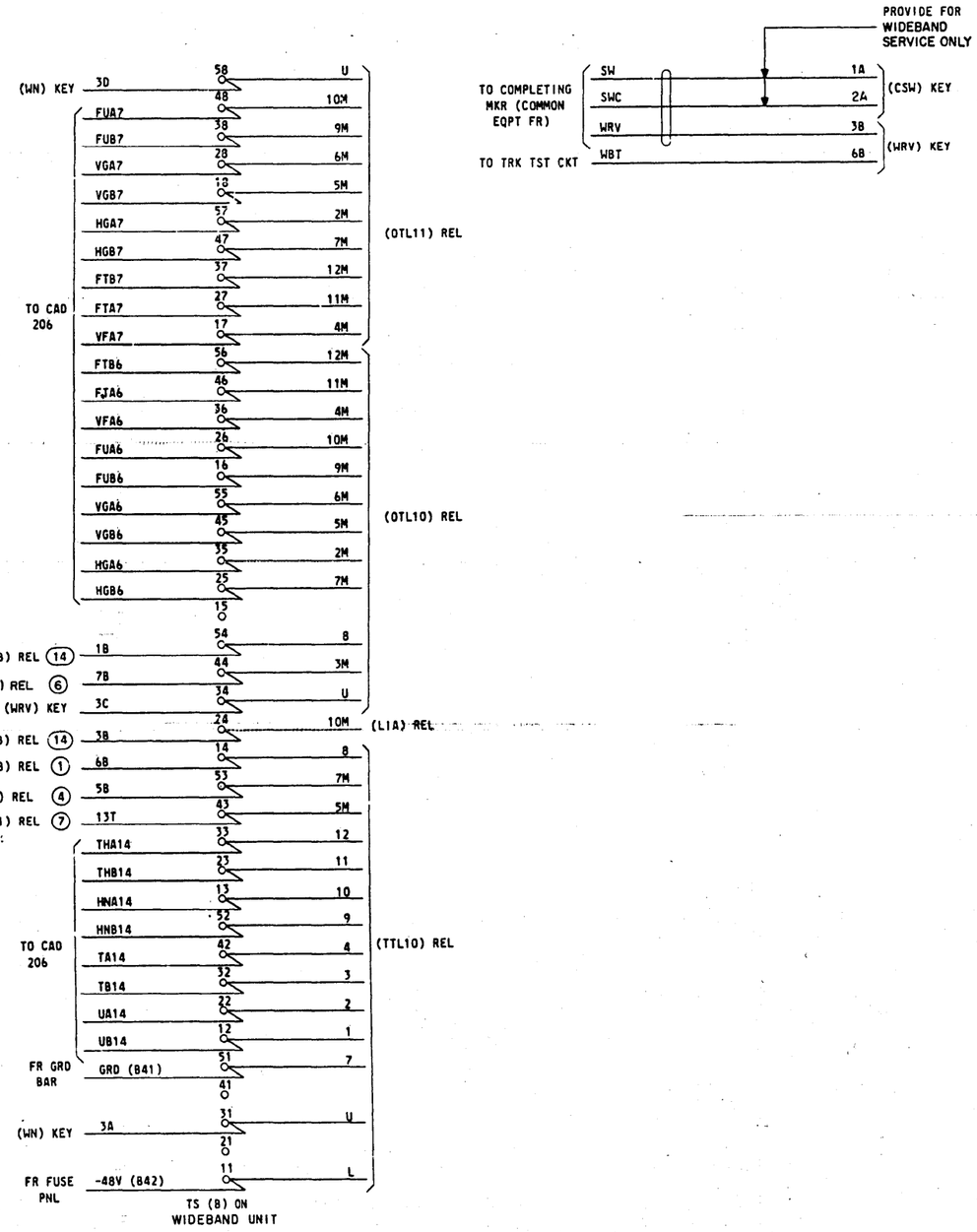
SD-25800-01-G61

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

SD-25800-01-G61

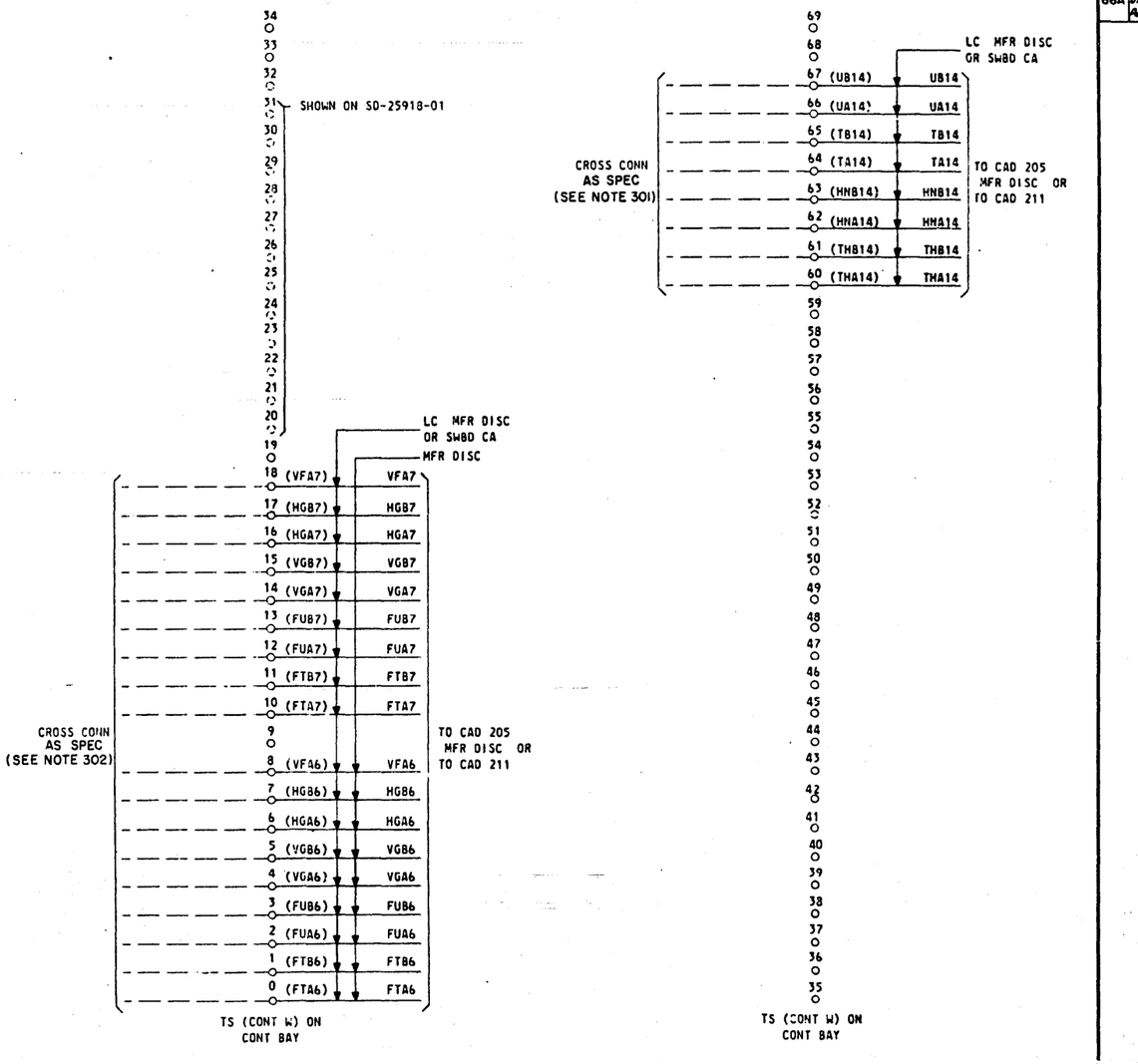
CAD 205 (MFR DISC) (SPECIAL)

(FOR APP FIG 106 & FIG. 4 (ZZB) OPT)



CAD 206 (SPECIAL)

CROSS CONN FOR WIDEBAND PRODUCT TRIAL



DRAWING ISSUE

60D	GTR
63D	BEM KLP
64A	BEM KLP
66A	MS

66

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G62

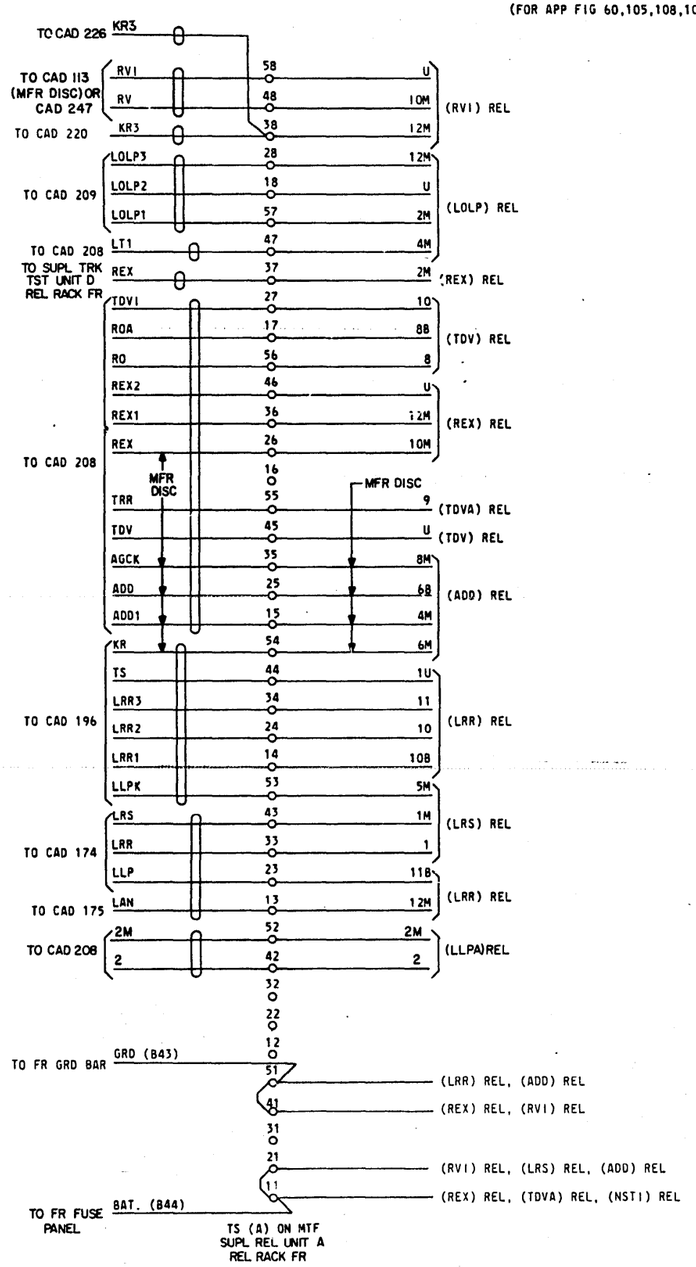
BELL TELEPHONE LABORATORIES INCORPORATED 6S

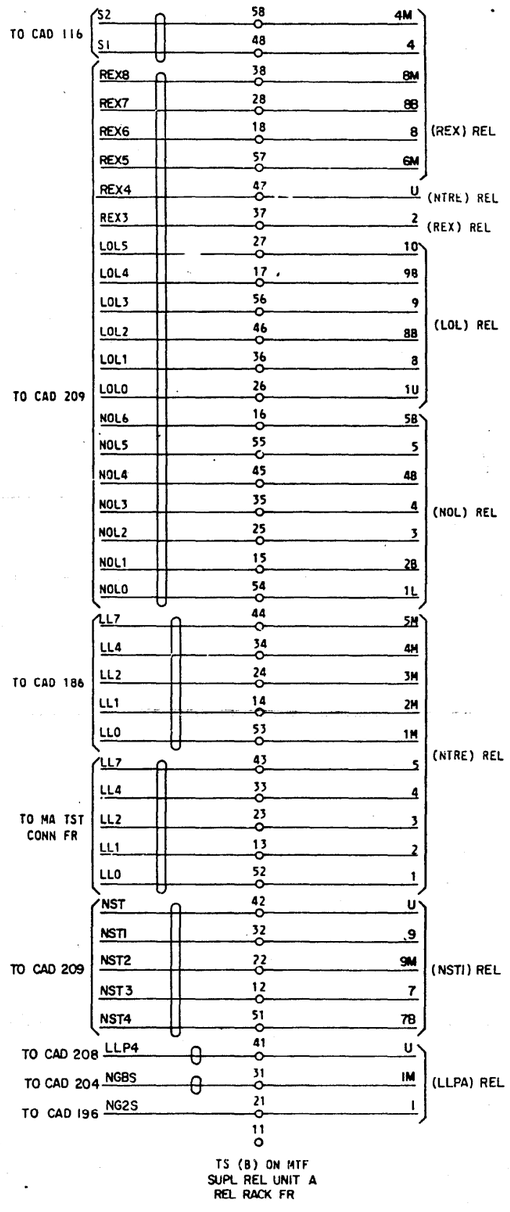
SD-25800-01-G62

KIMBERLY

CAD 207

(FOR APP FIG 60,105,108,109,131 & M)





DRAWING ISSUE		
63D	BEM	
54A	BEM	
57D	BPM	
72A	GAT	
74A		
76D		
77A		
78D		
82D		

ISSUE 101A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-G63

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-25800-01-G63

CAD 208

(FOR APP FIG 1-4,11,13,25,31,60,91,105 & 108)

CUT STRAP WHEN ARRANGED FOR TEST SET TYPE TESTING

TO CAD 207
- TDV1 — 35 — 3D — (TDV) KEY
- ROA — 34 — RO — TO TRK TST UNIT
- RO — 33 — 3B — (SRG2) REL
- REX2 — 32 — 12B — (MISC) REL
- REX1 — 31 — 3B — (MKTI) REL
- REX (MFR DISC) — 30 — 8T — (OR) REL

TO COMP MKR — INH — 29 — (INH) KEY

TO CAD 207
- TRR — 28 — 3A — (TRR) KEY
- TDV — 27 — 3A — (TDV) KEY

LTI — 26 — USED ON SD-25918-01

TO MA TST CONN — LOLL — 25 — 9B — (TSI2) REL

TO LVT UNIT IF PROVIDED OR TO CLVA OR ETS-PDI CKT — LOLL — 24 — USED ON SD-25792-01

23 — 10T — (LTI) REL

TO AGC GR CONT UNIT 0 ON RR
- Z64 — 22 — (Z64) LP
- Z32 — 21 — (Z32) LP
- Z16 — 20 — (Z16) LP
- Z8 — 19 — (Z8) LP
- Z4 — 18 — (Z4) LP
- Z2 — 17 — (Z2) LP
- Z1 — 16 — (Z1) LP
- MFR AGC DISC — 15 — (AGC) LP
- INH — 14 — (INH) LP
- ALM — 13 — (ALM) LP
- AGCK — ADDT — 12 — LOOP AT UNEQUIPPED POSITIONS — (ADD) LP

TO CAD 207
- ADD — 11 — 4T
- TO COMP MKR (AGC INPUT UNIT ON RR) — ADD — 10 — 3T — (TS11) REL
- TO CAD 239 — AGCK — 9 — 2T
- TO COMP MKR (AGC INPUT UNIT) — AGCK — 8 — 1T
- AGCT — 7 — (TS11) REL OR (AGC) SW

TO AGC GR CONT UNIT 0 ON RR
- INHC — 6 — 3C — (INH) KEY
- SUB — 5 — (SUB) KEY

TO AGC GR CONT ON RR
- UNIT 4 — T4 — 4 — 5
- UNIT 3 — T3 — 3 — 4
- UNIT 2 — T2 — 2 — 3
- UNIT 1 — T1 — 1 — 2
- UNIT 0 — T0 — 0 — 1

(AGC) SW SECT 2

TS (CONT J) ON CONTROL BAY

TO CAD 207 — LLPA — (178) 13T, (60) 12TF — (LLPK) REL

TO CAD 237
- INC1 — 6B
- INC0 — 5B

(INC) REL

TO CAD 250 — INC2 — LW — 5T

79 — USED ON SD-25918-01 — 55

TO MA TST CONN FR MT3CK — 54 — (TSII) REL OR (INH) KEY

53 — USED ON SD-25792-01 — 39

RUN WHEN AIS WITH DECICATED SENDERS AND LINE LINK PULSING IS NOT PROVIDED

TO CAD 225
- T(1)J
- R(1)J
- S(1)J

T(1)F — TO CAD 196
T(1)K
T(1)E — TO CAD 116
38 — (178) 7T, (60) 5T — (LLP2) REL
5B

TO CAD 203
- R(1)D — 37 — R(1)F — TO CAD 196
- R(1)K
- R(1)E — TO CAD 116

S(1)D — 36 — S(1)K — S(1)E — S(1)F — TO CAD 196 — 11T — (LLP3) REL

RUN WHEN DIRECT ACCESS TO 101 ESS IS PROVIDED

TO CAD 225
- S(1)H
- R(1)H — 6B

TO CAD 116
- R(1)L
- T(1)L — (178) 8T, (60) 6T

(LLP2) REL

TO CAD 225 — T(1)H

TS (CONT J) ON CONTROL BAY

TO CAD157
- 6B — 6B
- 5B — 5B — (LLP3) REL

LC — 2M — 2 — TO CAD 207

TO AGC GR CONT ON RR
- UNIT 9 — T9 — 10
- UNIT 5 — T5 — 6

(AGC) SW SECT 2

TO CAD 239
- AGC9 — 10
- AGC0 — 1

(AGC) SW SECT 3

- AG1 — 2C — (INH) KEY
- AG0 — 6D — (AGC) KEY

TO CAD 237
- CWNT1 — 3T
- CWNF — 4T — (F) REL
- KLT — 4B — (KLT) REL

MFR DISC
- W11B
- W11
- W9B
- W9

TO CAD 222

REMOVE WHEN WIDEBAND IS PROVIDED

STRAP WHEN DIRECT ACCESS TO NO. 101 ESS IS NOT PROVIDED

TO CAD 203
- DAP1D — 119 — 2T — (LLP) REL
- DAP1C — 118 — 3B — (KLT) REL
- DAP1B — 117 — 8T — (LLP) REL
- DAP1A — 116 — 1T — (KLT1) REL

115 … 103 — USED ON SD-25918-01 — 101

TO TRK LK FR (SEE NOTE 318) — FA(2) — 100 — 7B — (TMI) REL

99 … 98 — 10B — (IT) REL

97 … 90

TO CAD 203 — ESS — 90

89 … 40

TS (CONT J) ON CONTROL BAY

DRAWING ISSUE

62D	102B
63D	102B
64A	102B
67D	102B
68A	102B
73D	102B
74A	102B
76D	102B
78D	102B
83A	102B

ISSUE 102B

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-G64

BELL TELEPHONE LABORATORIES INCORPORATED

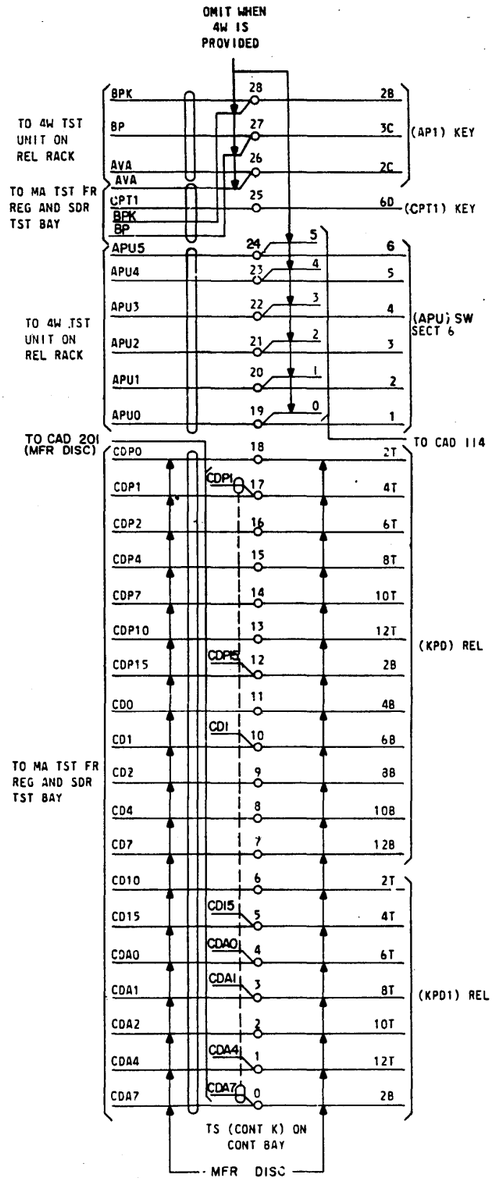
SHEET NUMBER 65

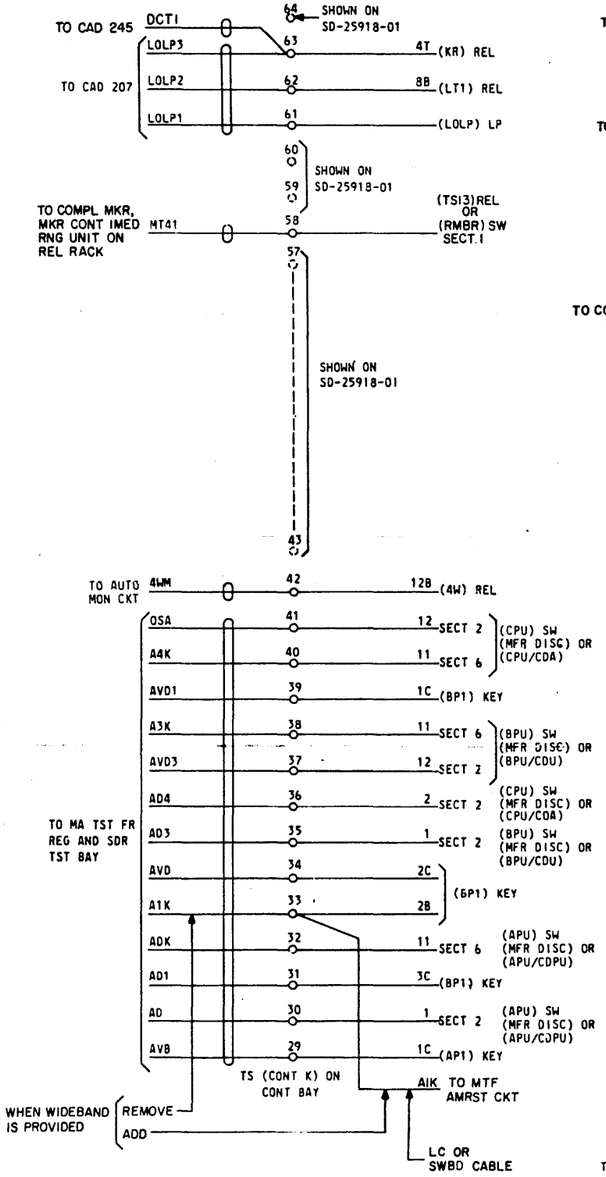
SD-25800-01-G64

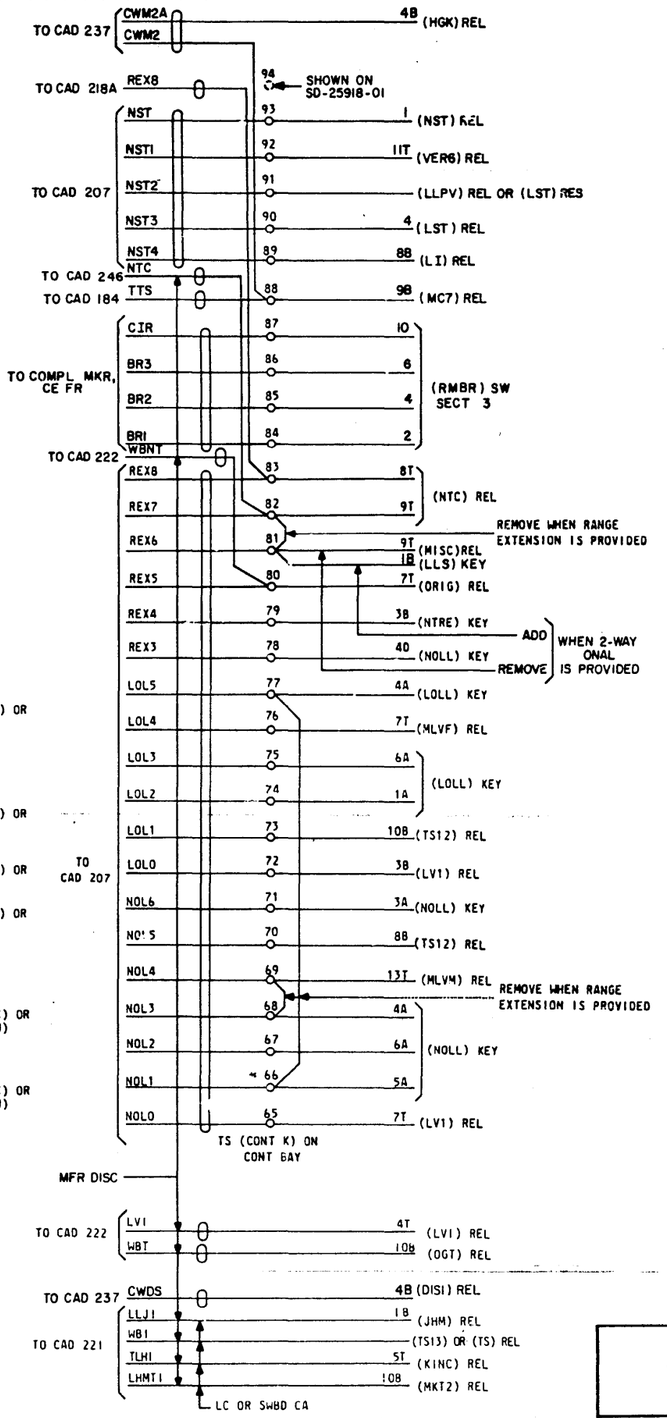
HIGGINS 4465 KOE

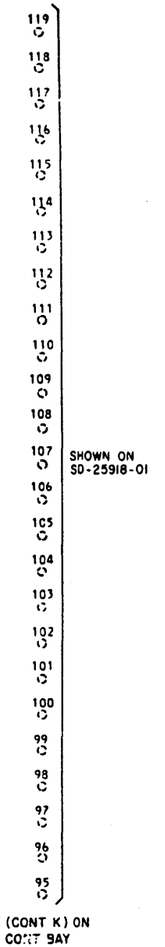
CAD 209

(FOR APP FIG L,M,1-4,11,13,14,17,25,49,109,112,113 & 116)









ISSUE 102B

MASTER TEST CONTROL CIRCUIT

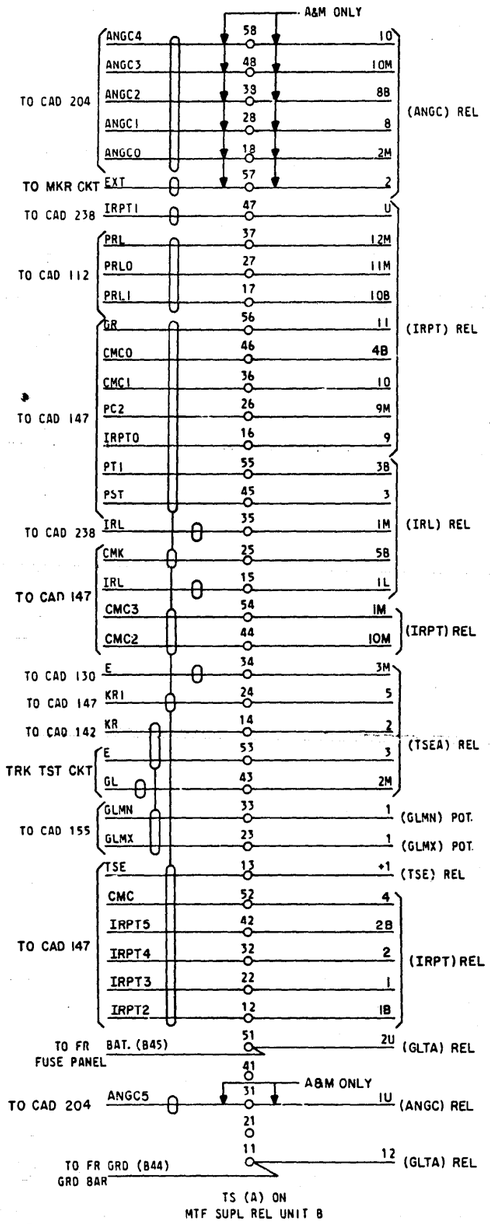
SD-25800-01-G65

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

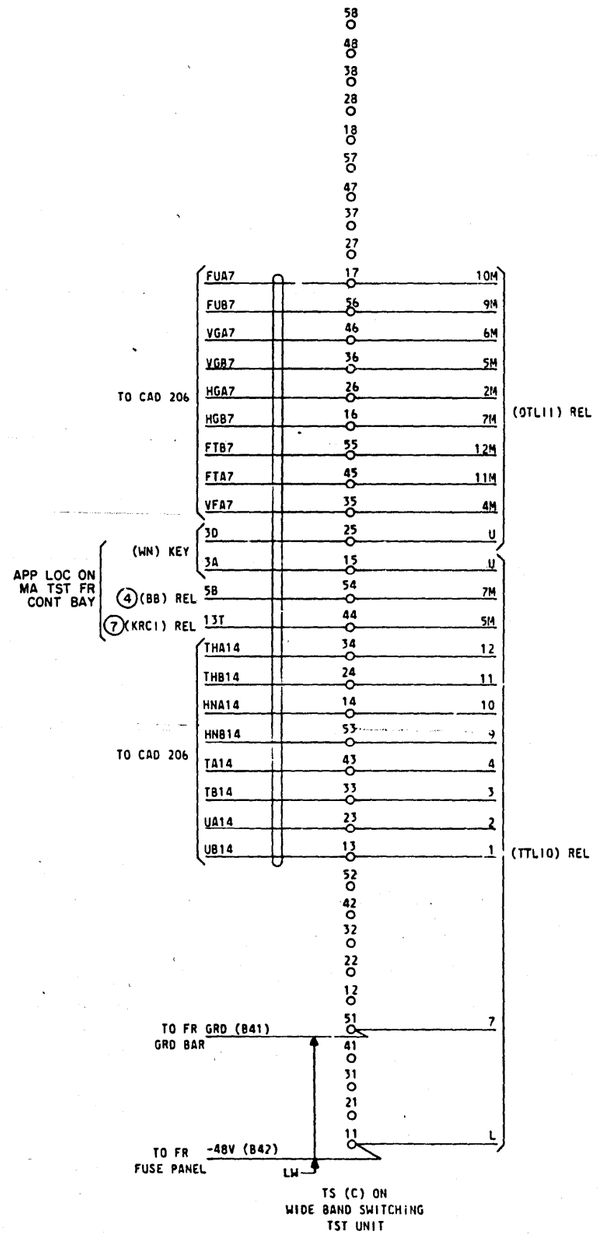
SD-25800-01-G65

CAD 210
(FOR APP FIG 111 & 153)

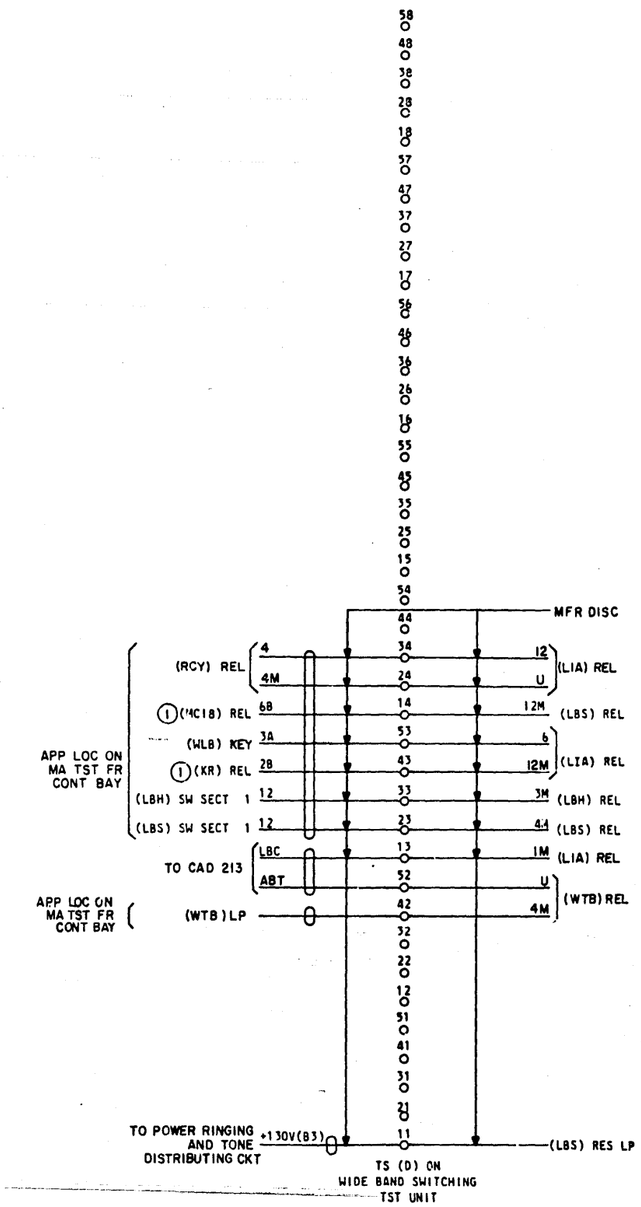


TS (A) ON
MTF SUPL REL UNIT B

CAD 211 (SPECIAL)
(FOR APP FIG 106 & 118)



TS (C) ON
WIDE BAND SWITCHING
TST UNIT



TS (D) ON
WIDE BAND SWITCHING
TST UNIT

DRAWING ISSUE	
63D	G.E. A1A and A4A
56A	IEL S.A. and [illegible]
58A	[illegible]
49D	R.J.F.
80D	
82D	

ISSUE 85A

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-G66

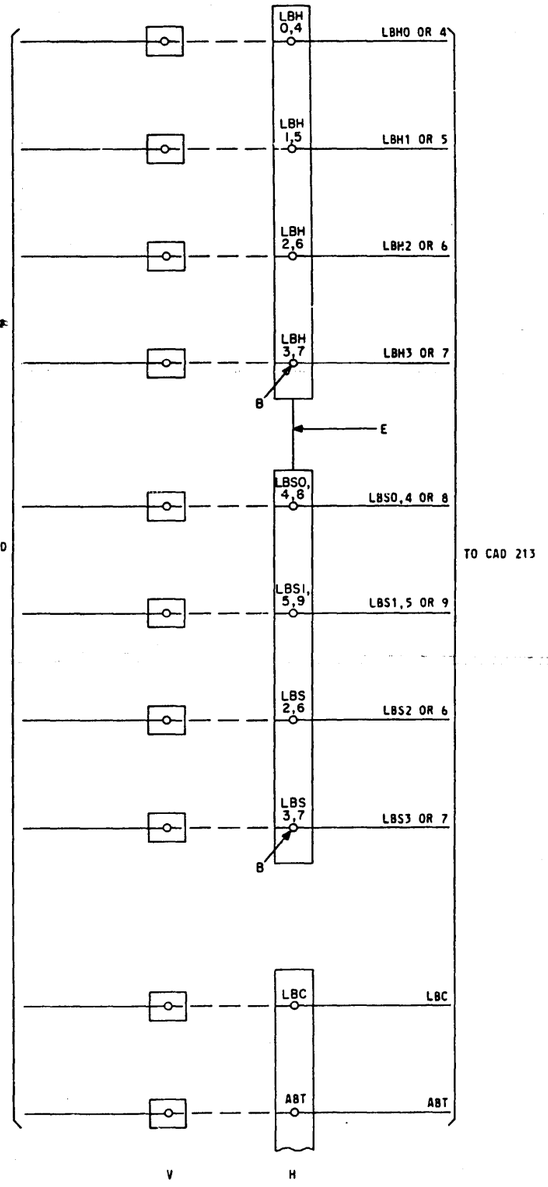
BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-25800-01-G66

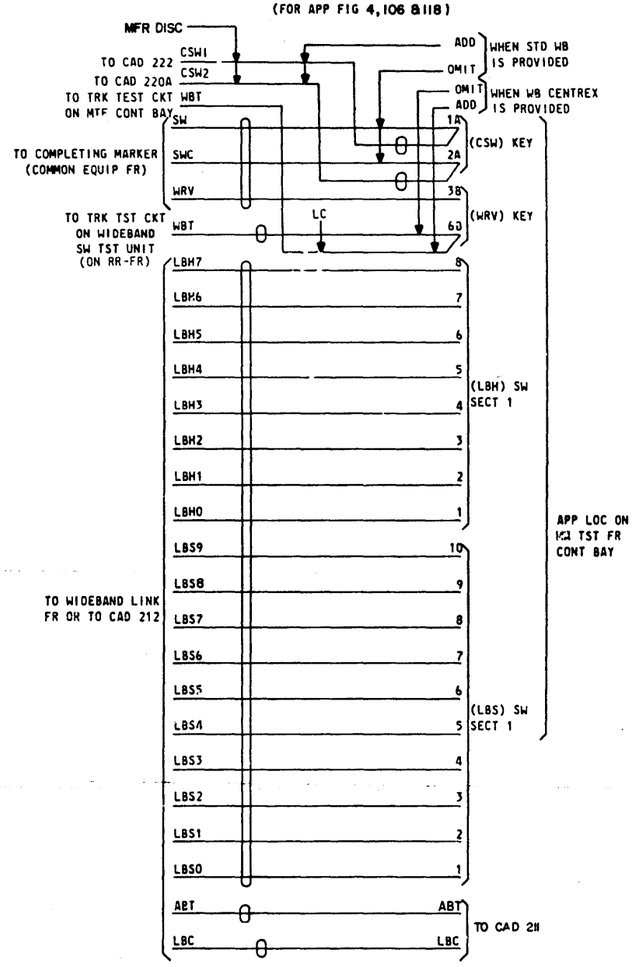
CAD 212 (SPECIAL)

(REQUIRED WHEN WIDEBAND LINK FRAME IS LOCATED IN REMOTE BUILDING)



CAD 213 (SPECIAL)

(FOR APP FIG 4,106 &118)



DRAWING ISSUE

63D	
66A	
78D	
79A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G67

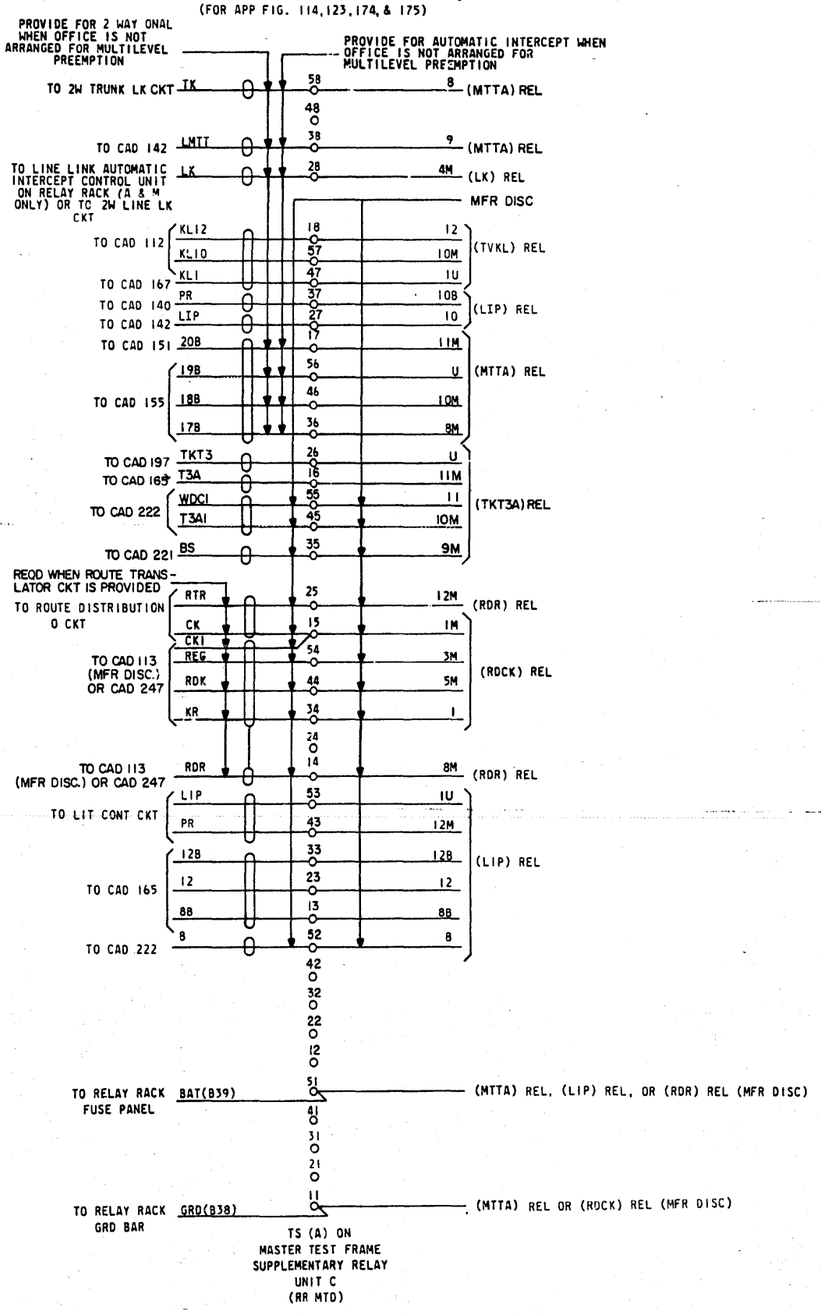
BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-25800-01-G67

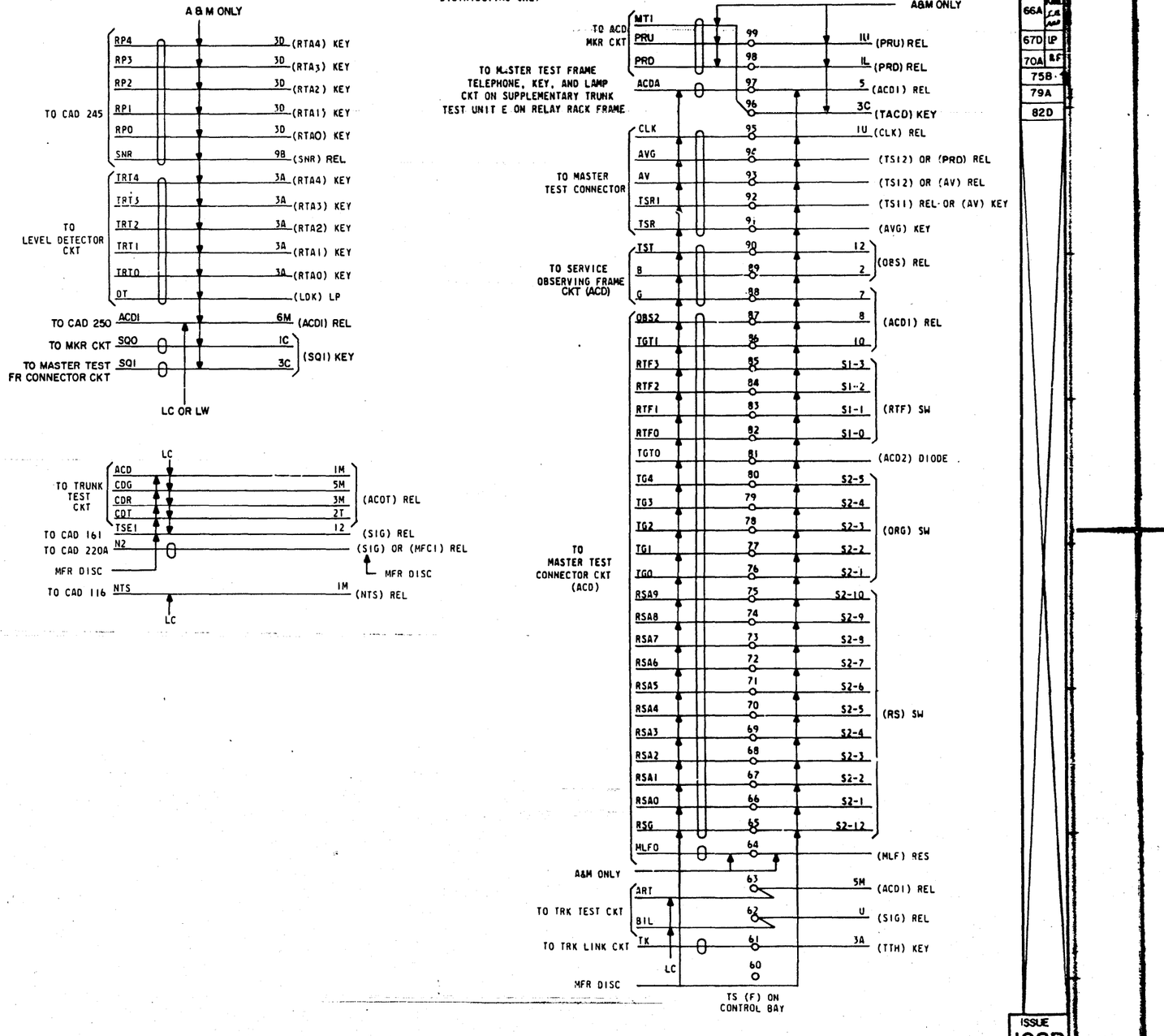
CAD 214

(FOR APP FIG. 114,123,174,& 175)



CAD 217

(FOR APP FIG 119,120,155)
REQUIRED FOR AUTOMATIC CALL DISTRIBUTING ONLY



DRAWING ISSUE	
65D	KMT, S.A. AMP
66A	KMT, S.A. AMP
67D	LP
70A	B.F.
75B	
79A	
82D	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT

(2) SD-25800-01-668

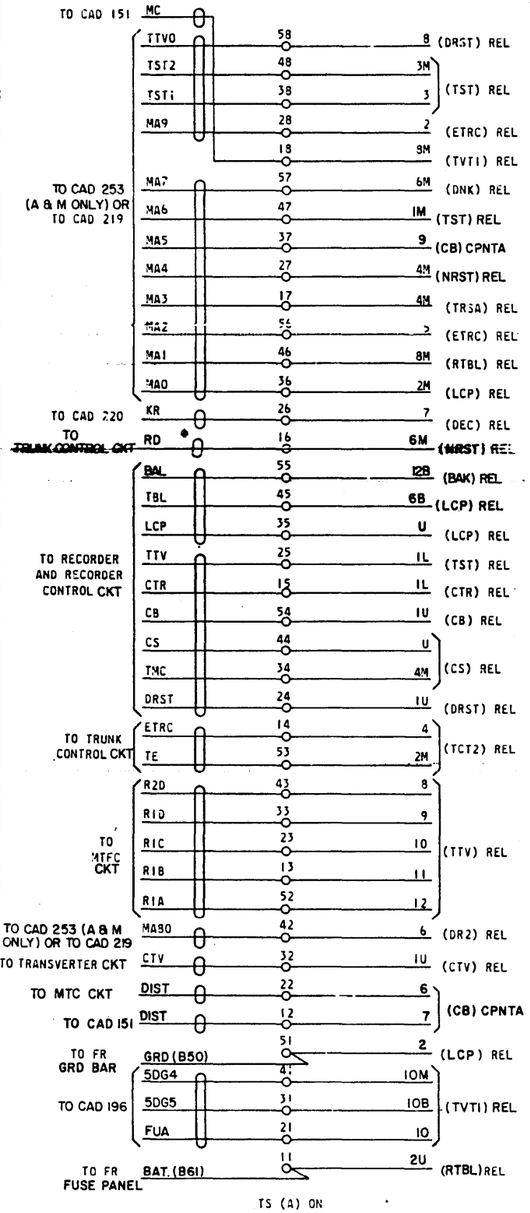
BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

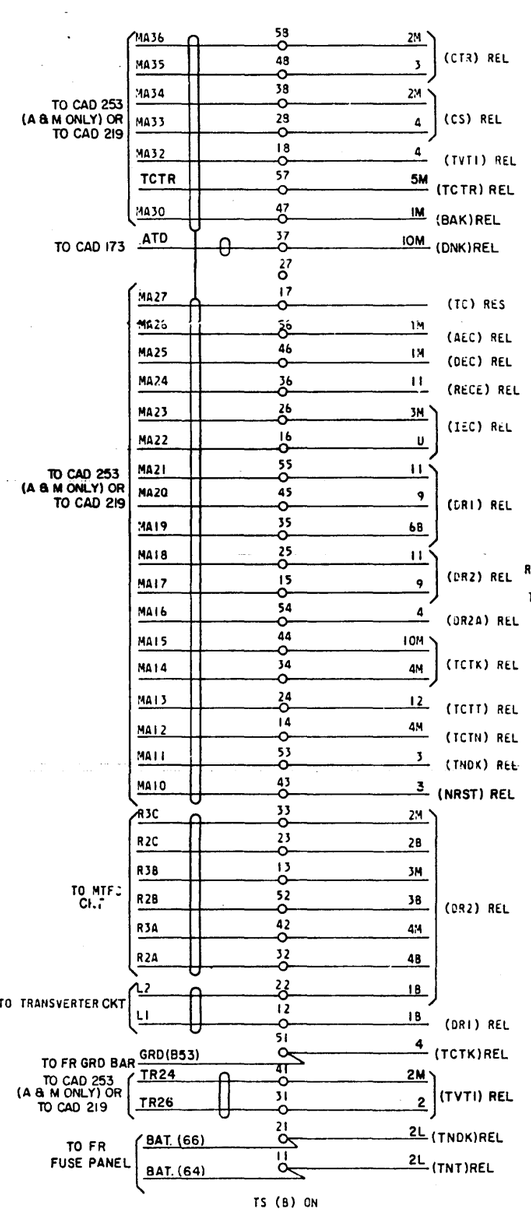
SD-25800-01-668

PART OF CAD 218

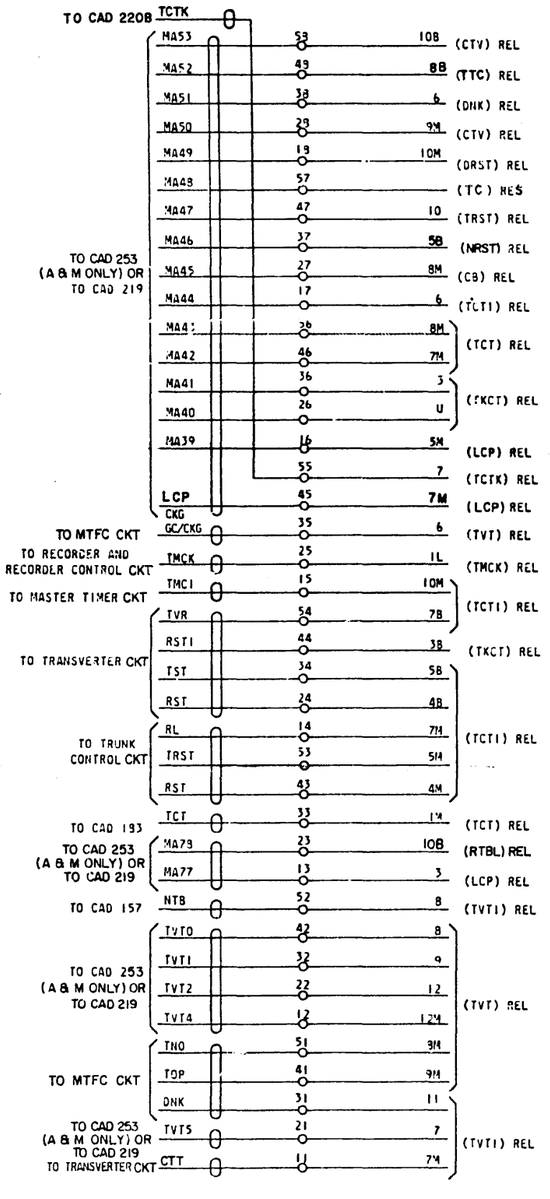
(FOR APP FIG 127)



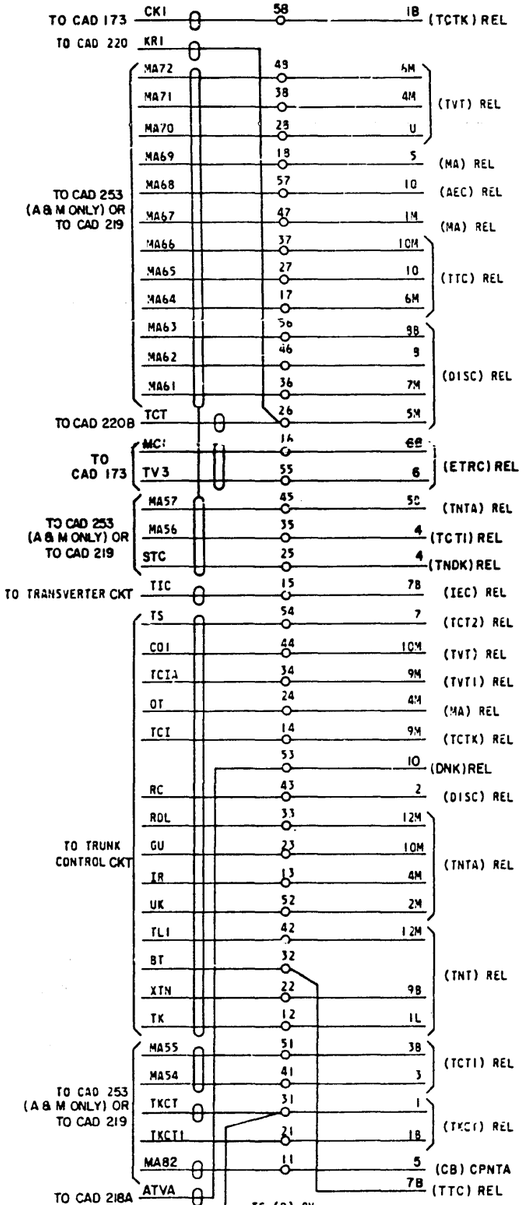
TS (A) ON MAGNETIC TAPE RECORDING TEST UNIT (RELAY RACK FR)



TS (B) ON MAGNETIC TAPE RECORDING TEST UNIT (RELAY RACK FR)



TS (C) ON MAGNETIC TAPE RECORDING TEST UNIT (RELAY RACK FR)



TS (D) ON MAGNETIC TAPE RECORDING TEST UNIT (RELAY RACK FR)

DRAWING ISSUE

67D	PEC
76D	CB
78D	
80D	
83A	

ISSUE 89A CB

MASTER TEST CONTROL CIRCUIT (2)

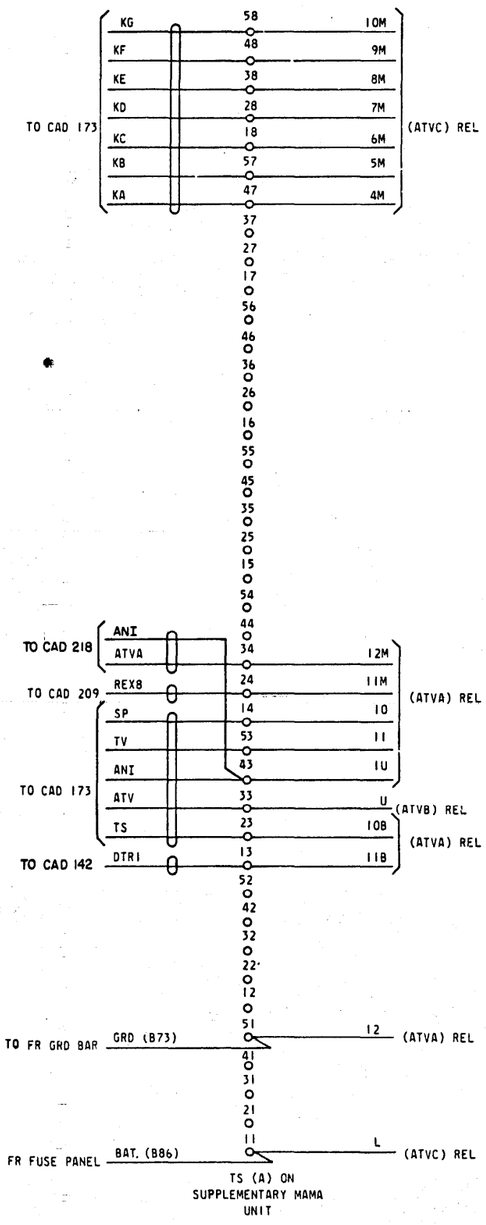
SD-25800-01-G69A

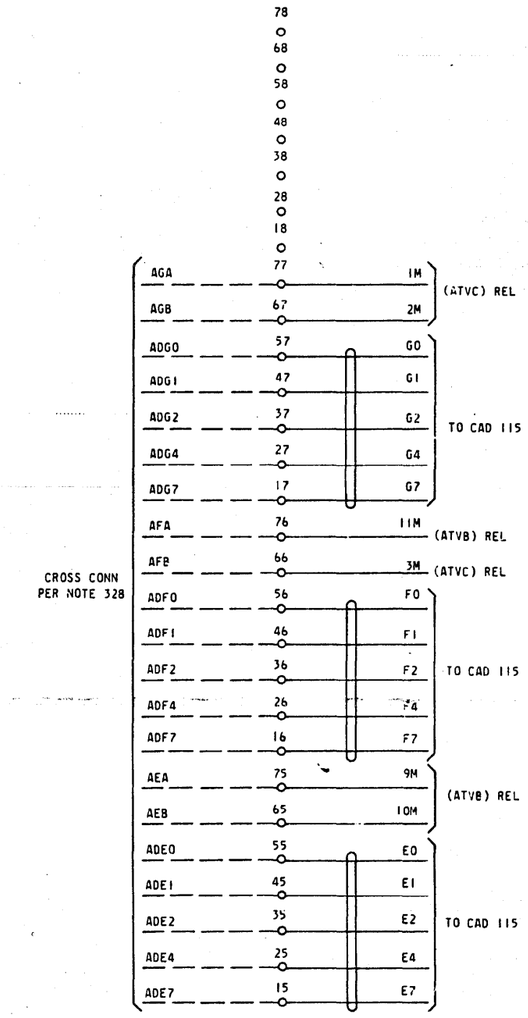
BELL TELEPHONE LABORATORIES INCORPORATED

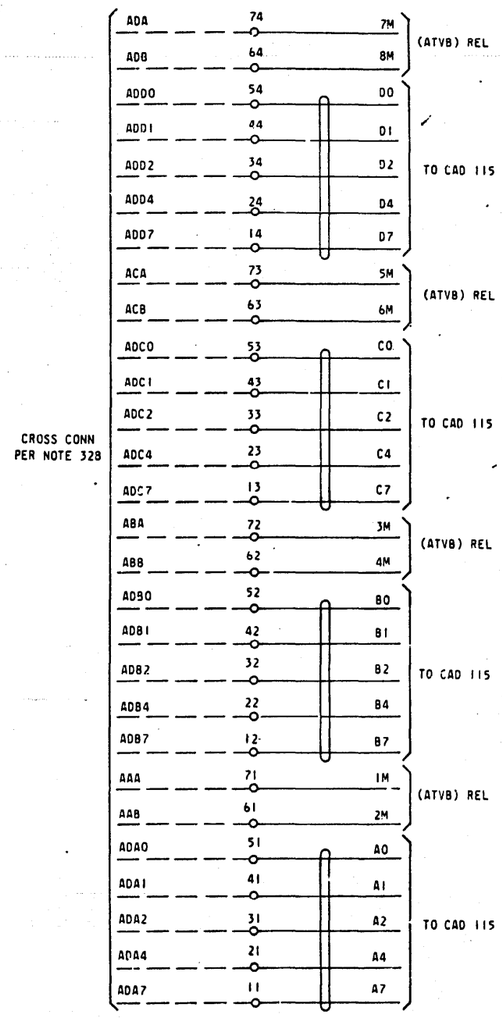
PAGE SIZE 6S

SD-25800-01-G69A

CAD 218A
(FOR APP FIG. 127)







ISSUE 93A

MASTER TEST CONTROL CIRCUIT (2)

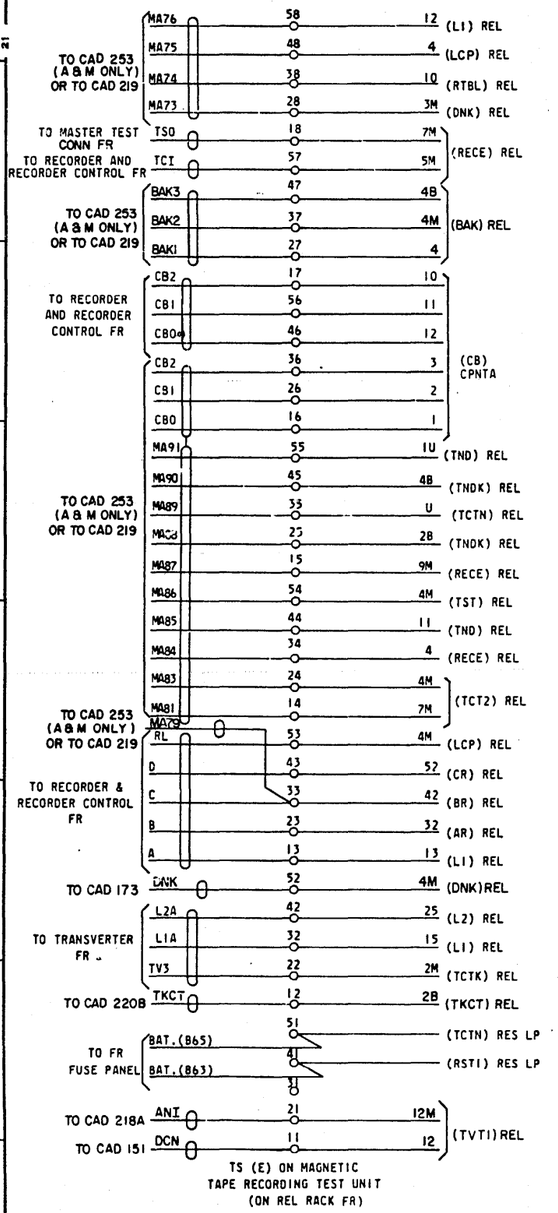
BELL TELEPHONE LABORATORIES INCORPORATED

SD-25800-01-G698

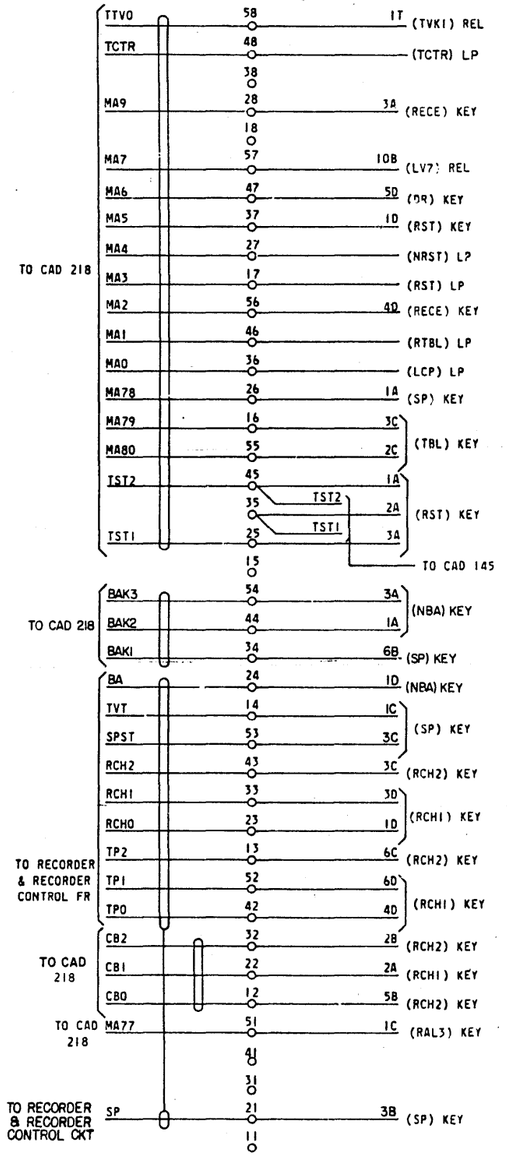
SD-25800-01-G698

PART OF CAD 218

(FOR APP FIG 127)



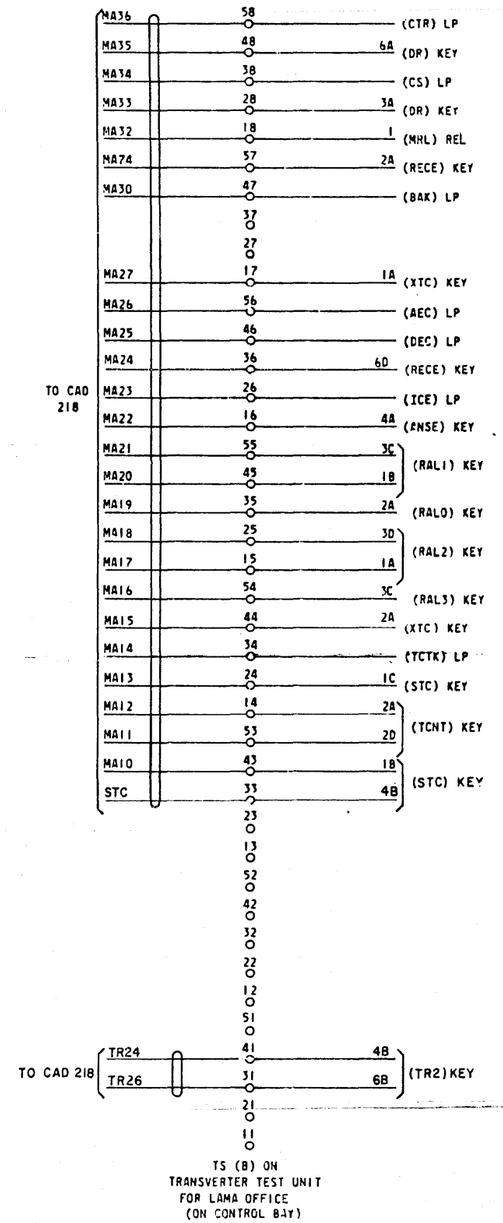
TS (E) ON MAGNETIC
TAPE RECORDING TEST UNIT
(ON REL RACK FR)



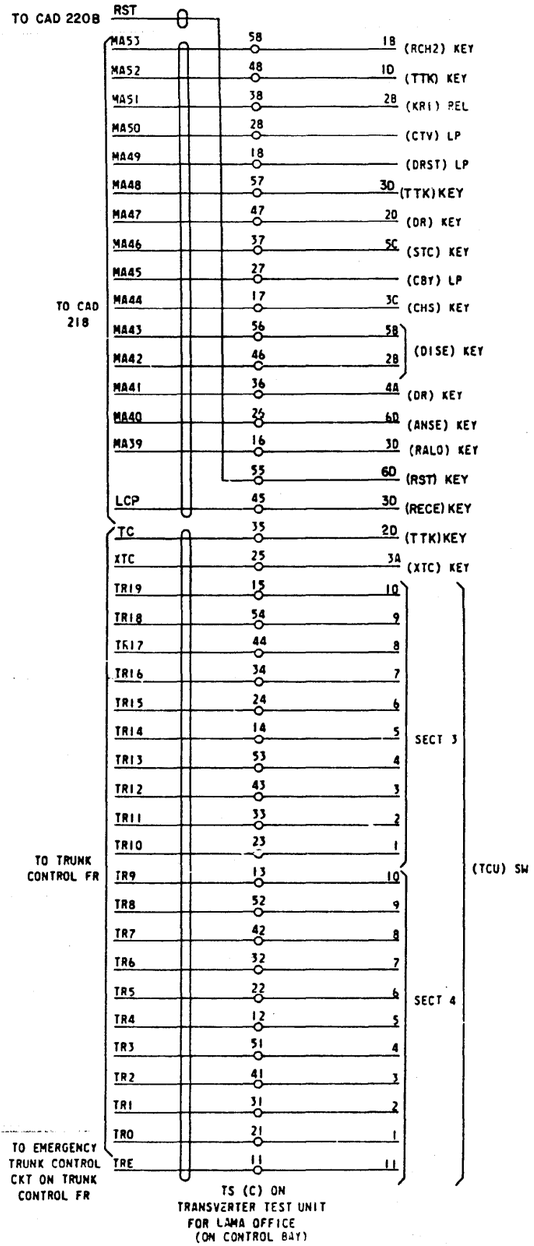
TS (A) ON
TRANSVERTER TEST UNIT
FOR LAMA OFFICE
(ON CONTROL BAY)

PART OF CAD 219

(FOR APP FIGURES 20, 29, & 128)



TS (B) ON
TRANSVERTER TEST UNIT
FOR LAMA OFFICE
(ON CONTROL BAY)



TS (C) ON
TRANSVERTER TEST UNIT
FOR LAMA OFFICE
(ON CONTROL BAY)

DRAWING ISSUE	
67D	MS
76D	
78D	
80D	
83A	

ISSUE 89A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G70

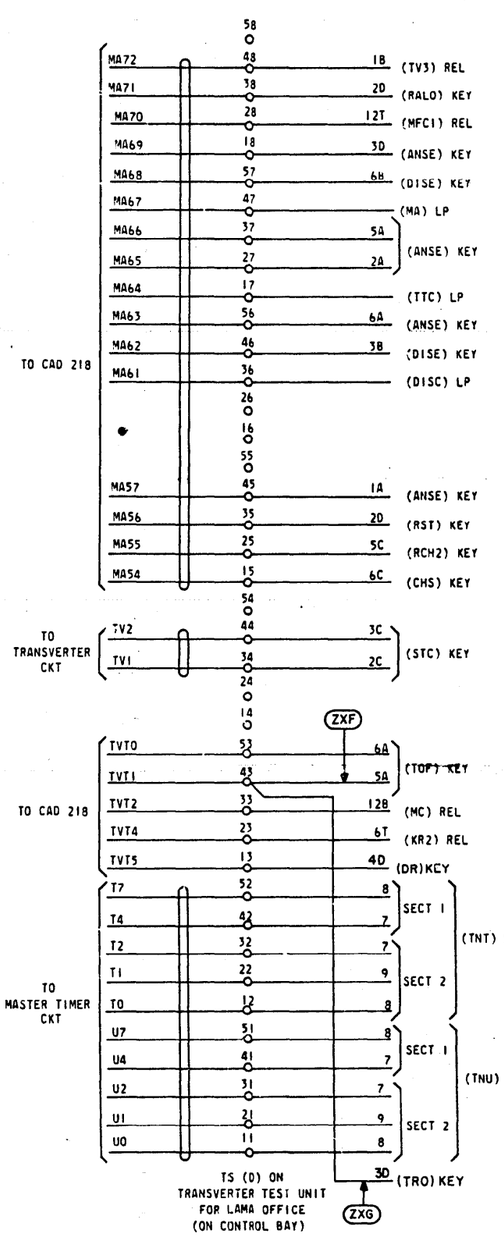
BELL TELEPHONE LABORATORIES INCORPORATED

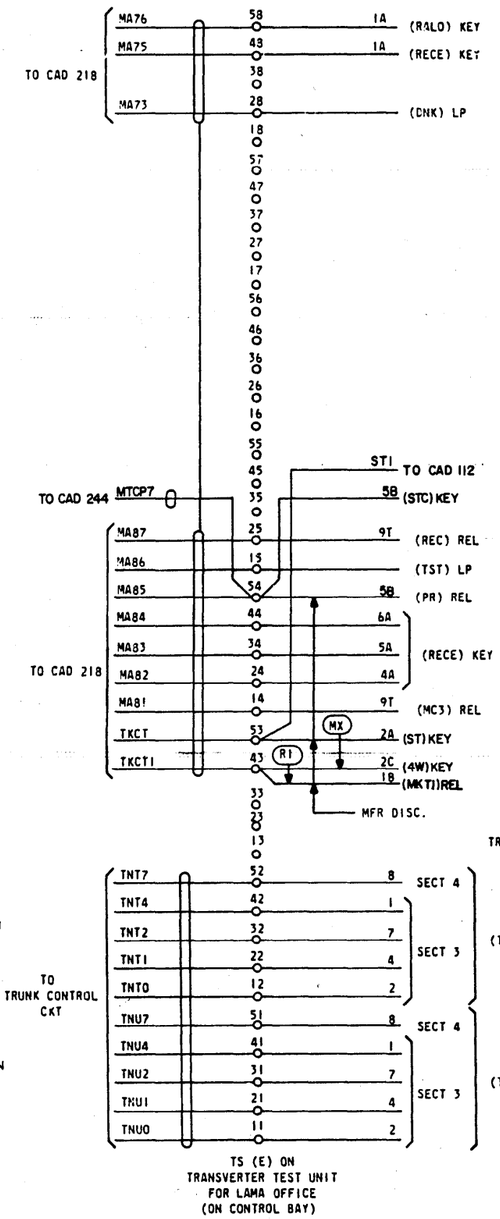
6S

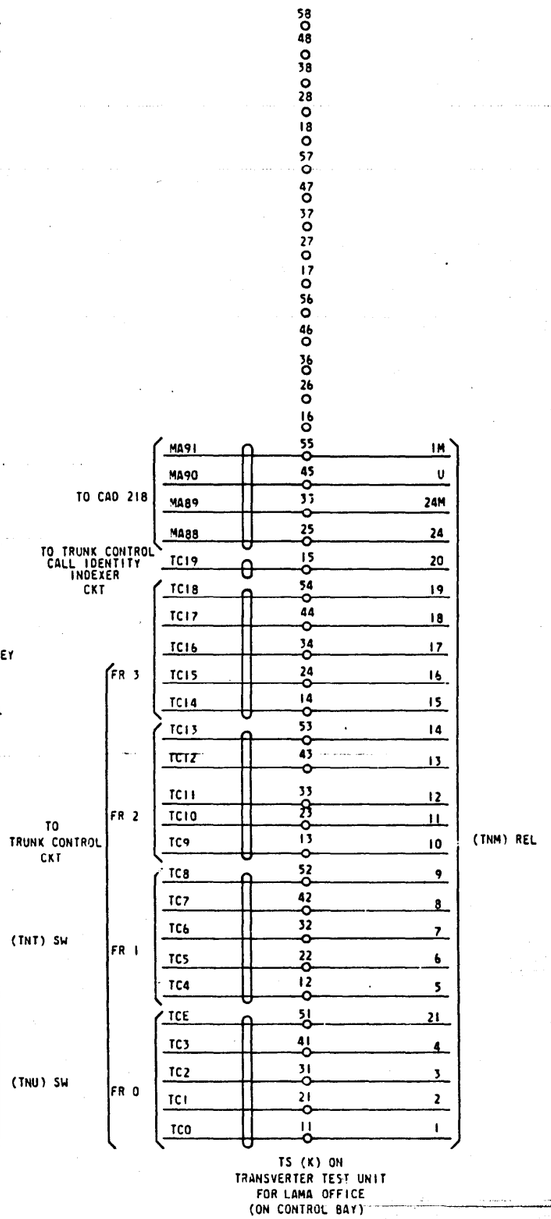
SD-25800-01-G70

PART OF CAD 219

(FOR FIGS 20,128 & 132)

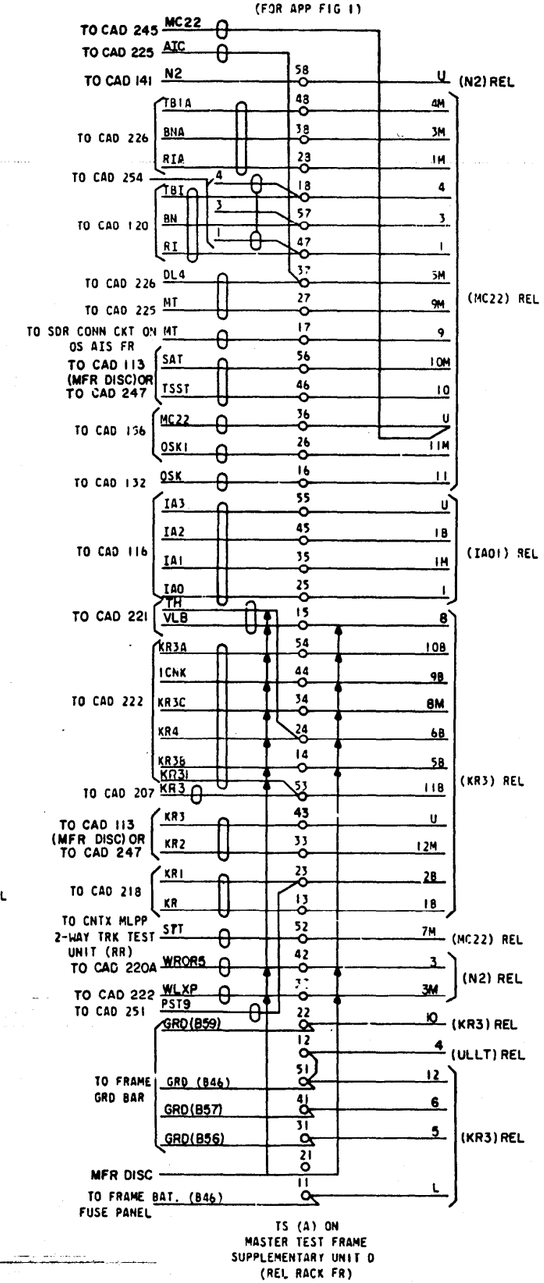






CAD 220

(FOR APP FIG 1)



DRAWING ISSUE
67D
71D
73D
74A
76D
78D
80D
81A
82D
83A

ISSUE 107A

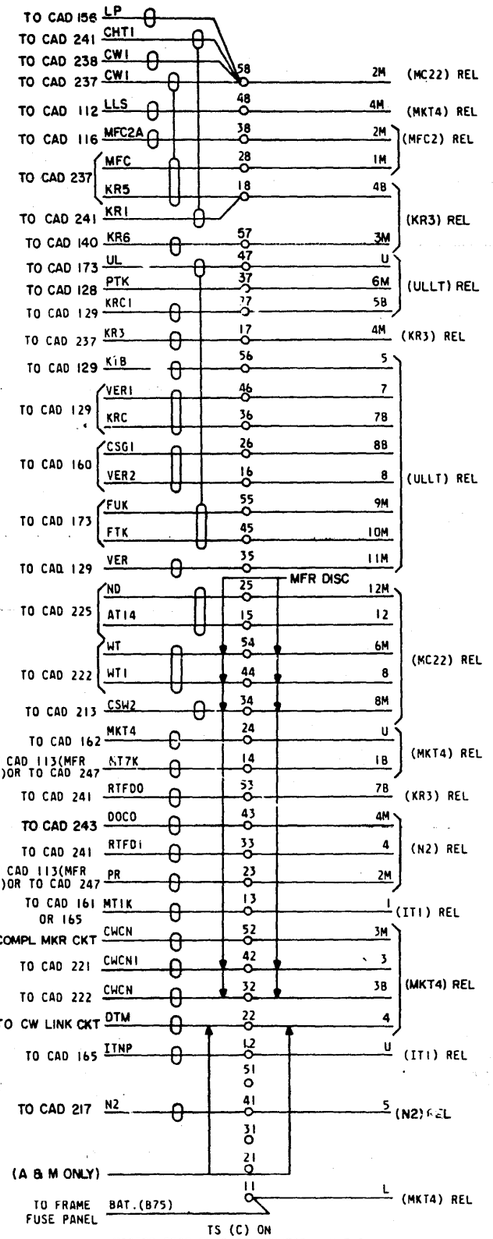
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G71A

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-G71A

CAD 220A

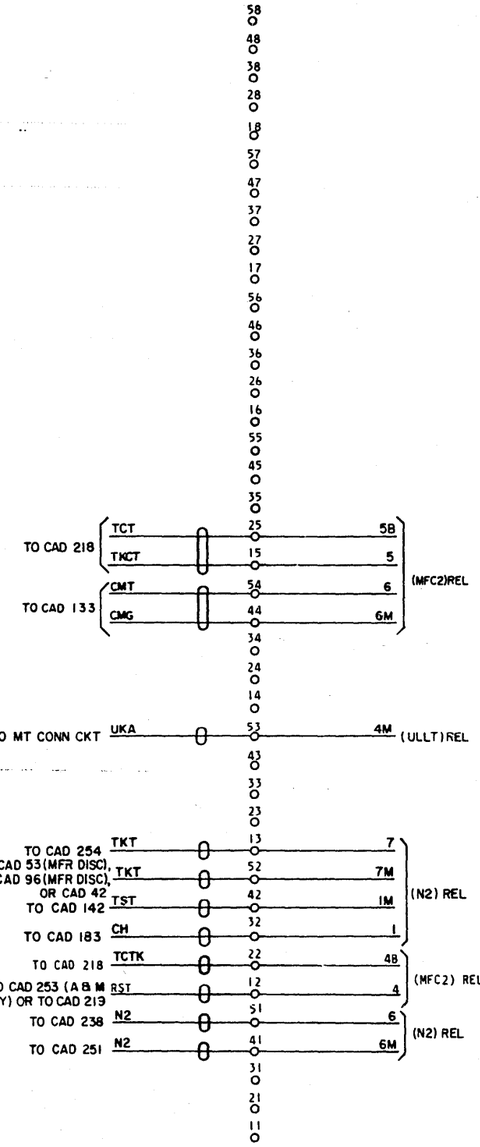
(FOR APP FIG 1)



TS (C) ON
MASTER TEST FR SUPPLEMENTARY UNIT D
(REL RACK FR)

CAD 220B

(FOR APP FIG 1)



TS (D) ON
MASTER TEST FR SUPPLEMENTARY UNIT G
(REL RACK FR)

DRAWING ISSUE
73D
76D
78D
79A
80D
81A
82D
83A

ISSUE 103A

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-6718

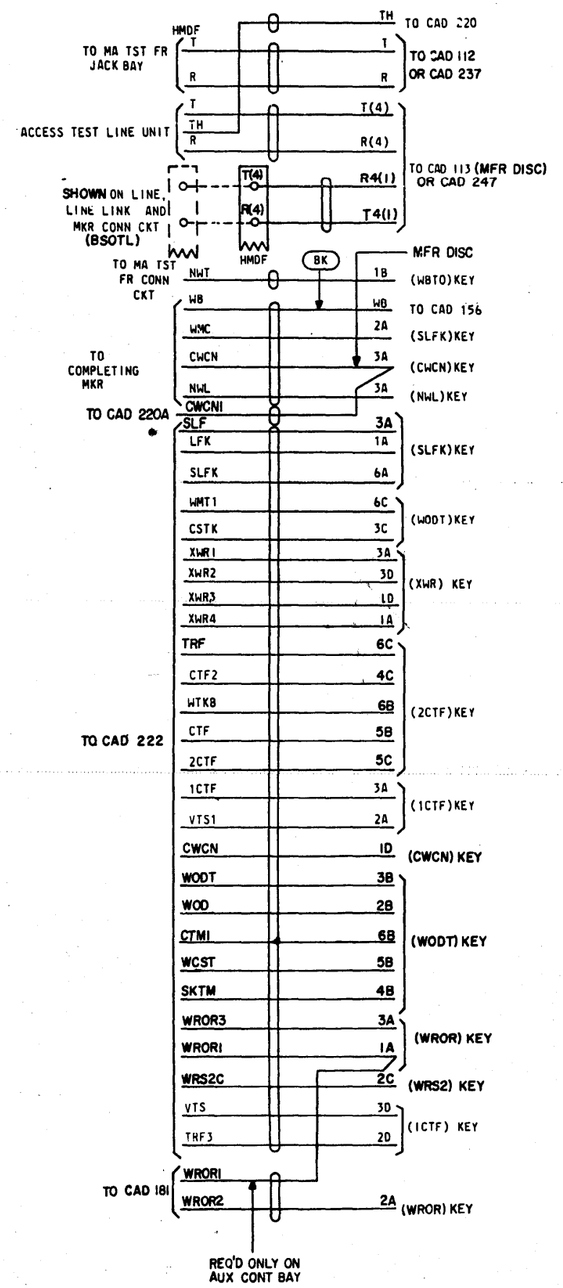
BELL TELEPHONE LABORATORIES INCORPORATED

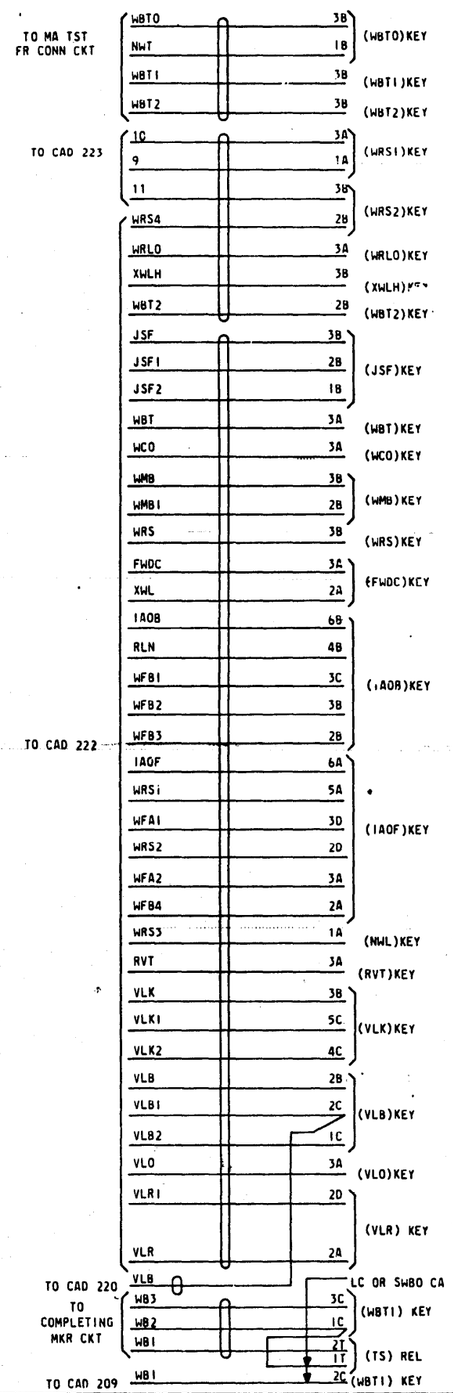
SHEET 65

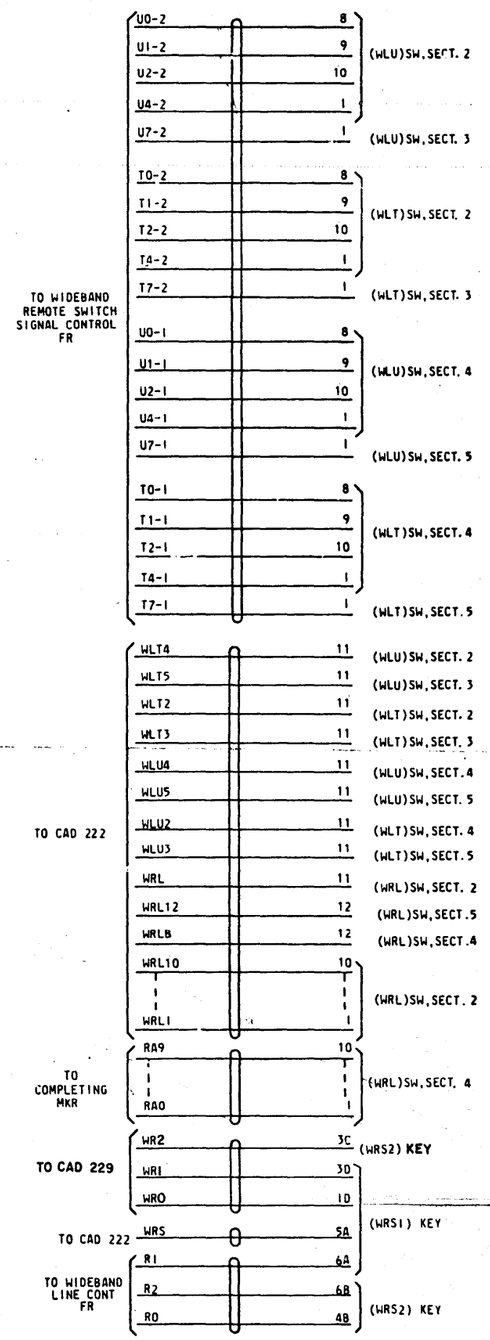
PART OF CAD 221 (MFR DISC)

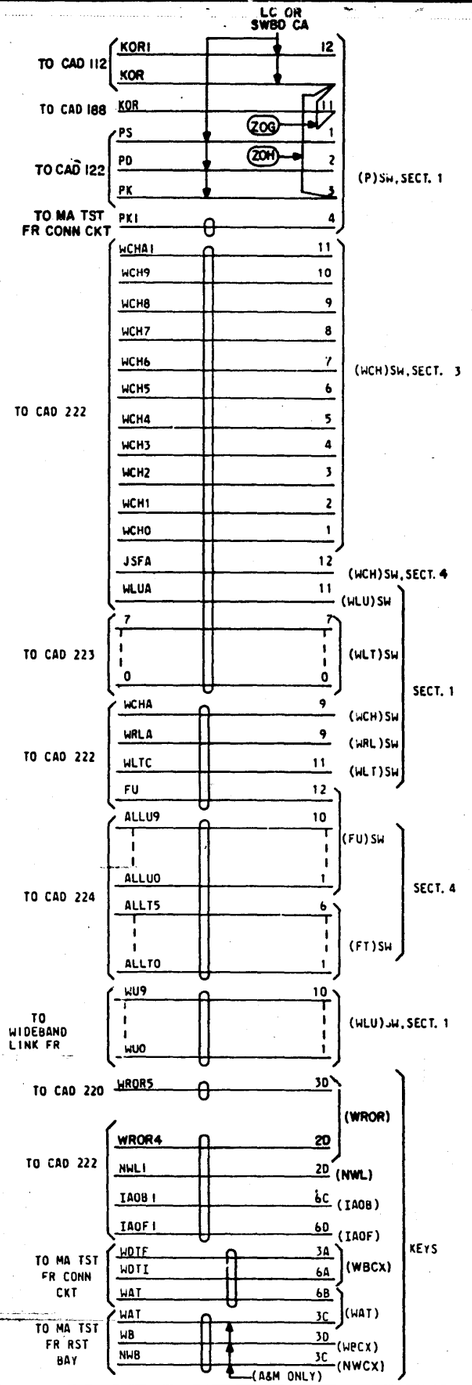
(FOR APP FIG 134)

APPARATUS IN THIS CAD IS LOCATED ON THE MA TEST FR CONT BAY (MFR DISC) OR AUX MA TEST FR CONT BAY









DRAWING ISSUE	
71D	
74A	
76D	
77A	
78D	
81A	
82D	
83A	

ISSUE 102B

MASTER TEST CONTROL CIRCUIT

(2)

SD-25800-01-G72

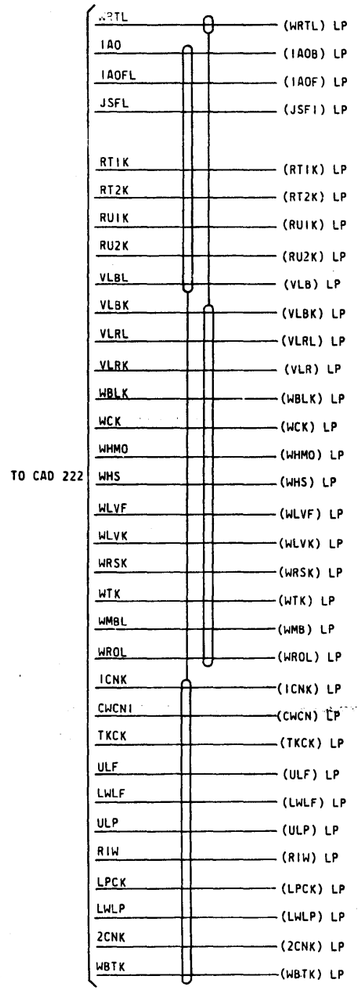
BELL TELEPHONE LABORATORIES INCORPORATED

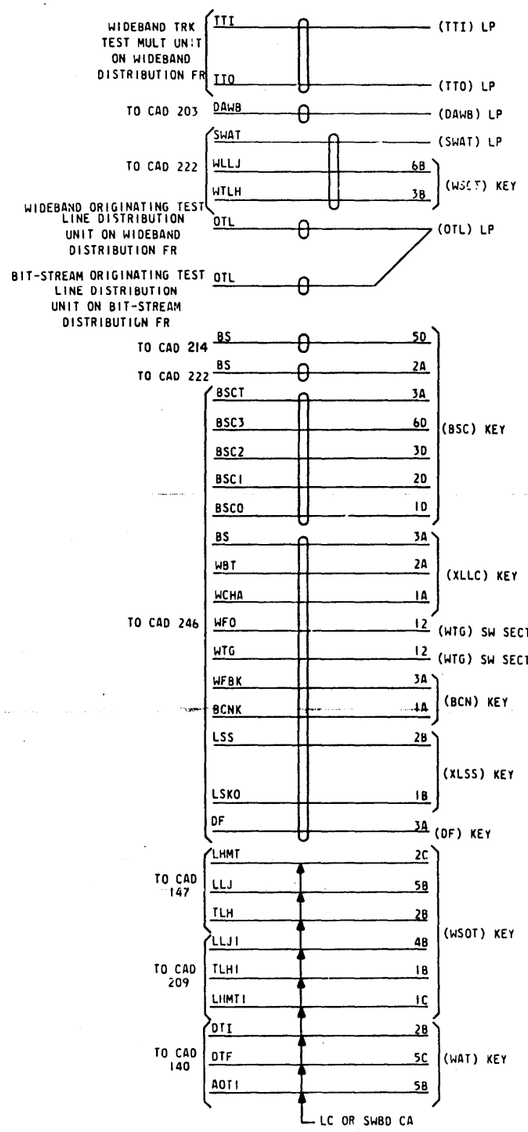
6S

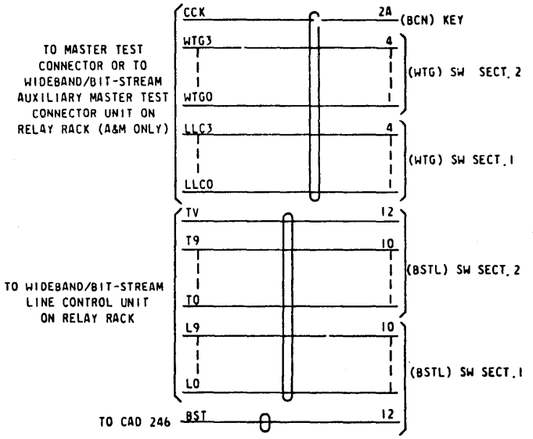
SD-25800-01-G72

PART OF CAD 221 (MFR DISC)

(FOR APP FIG 134)
APPARATUS IN THIS CAD IS LOCATED ON THE MASTER TEST FR CONTROL BAY (MFR DISC) OR AUXILIARY MASTER TEST FR CONTROL BAY







ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-673A

BELL TELEPHONE LABORATORIES INCORPORATED 6S

PART OF CAD 222 (MFR DISC)

(FOR APP FIG 135)

FOR CONNECTIONS TO THESE TERMINALS SEE CAD 223

109 — 40 — BAT.

TO POWER, RINGING, AND TONE DISTRIBUTING FR — BAT. B4 — 39 39 — (WT2)RES

38 38

16 16

LW

BAT.B74 — 15 15 — L — (SKTM)REL

BAT.B84 — 14 14 — L — (BSNT)REL

BAT.B73 — 13 13 — 2L — (CWCN)REL

12 12

BAT.B72 — 11 11 — (WT1)RES

10 10

09 09

TO RELAY RACK FRAME FUSE PANEL — BAT.B71 — 08 08 — (WL)RES LP

07 07

BAT.B70 — 06 06 — (WM)RES LP

05 05

BAT.B69 — 04 04 — 2L — (WTH2)REL

03 03

BAT.B68 — 02 02 — L — (WRS)REL

01 01

BAT.B49 — 00 00 — L — (WLVK)REL

TS (A-H)
ON WB/BS TEST UNIT (RR-FR)

FOR CONNECTIONS TO THESE TERMINALS SEE CAD 223

109 — 30

GRD — 29 29

LW

GRD B69 — 12 12 — 5 — (BSNT)REL

GRD B59 — 11 11 — 3 — (CWCN)REL

10 10

09 09

GRD B58 — 08 08 — 12 — (WTLH)REL

07 07

GRD B57 — 06 06 — 10 — (1AOF)REL

TO RELAY RACK FRAME FUSE PANEL

05 05

GRD B56 — 04 04 — 4 — (WRSK)REL

03 03

GRD B55 — 02 02 — 5 — (TTL13)REL

01 01

GRD B49 — 00 00 — 10 — (WLV)REL

TS (B-D)
ON WB/BS TEST UNIT (RR-FR)

WHEN LIT WITH DIR NO. PRINTOUT IS PROVIDED — OMIT / ADD — CONT — A&M ONLY

TO CAD 113 — AREP — 36 36 — 18

TO CAD 113 — PARE — 35 35 — 8

TO CAD 142 — ATTP — 34 34 — 7B

TO CAD 113 — ARE — 33 33 — 7

TO CAD 113 — AR — 32 32 — 4B

TO CAD 165 — PR — 31 31 — 4 — (WTRP)REL

TO WIDEBAND ORIG TEST LINE DIST UNIT ON WIDEBAND DIST FR — S — 30 30 — 8 — (WDCI)REL

TO BIT-STREAM ORIG TEST LINE DIST UNIT ON BIT-STREAM DIST FR — S

TO WIDEBAND/BIT-STREAM TRK TEST UNIT (RR-FR) — LSI

OMIT WHEN CALL WAITING IS PROV

TO CAD 163 — NTCI — 29 29 — 4M

TO CAD 163 — WLVI — 28 28 — 4B — (WLVI)REL

TO CAD 209 — LVI — 27 27 — 4

TO CAD 214 — 8

TO CAD 176 — WBH — 26 26 — 2 — (WBT5)REL

TO CAD 214 — WDCI — 25 25 — 8M — (WDCI)REL

TO CAD 112 — TTL7 — 24 24 — 7M

TO CAD 196 — KRC2 — 23 23 — 5M — (TTLI3)REL

TO CAD 197 — WBA — 22 22 — 11B — (WTLHI)REL

TO CAD 112 — TTL2 — 21 21 — 3B — (WB)REL

TO CAD 196 — 30C — 20 20 — 11B — (WBH)REL

TO CAD 162 — MKTI — 19 19 — 12

TO CAD 112 — LV — 18 18 — 11 — (WBT)REL

TO CAD 183 — JSF — 17 17 — 3M — (JSF)REL

TO CAD 130 — MC3 — 16 16 — 11M — (WLVF)REL

TO CAD 160 — WBT8 — 15 15 — 8M — (WBT8)REL

TO CAD 128 — WLV — 14 14 — 6B

TO CAD 126 — CT4 — 13 13 — 6 — (WLV)REL

TO CAD 127 — TNK — 12 12 — 10M

TO CAD 161 — KRCC — 11 11 — 10 — (WBT4)REL

TO CAD 163 — SDR3 — 10 10 — (BSTK OR (WTLHI)REL

TO CAD 196 — KR — 09 09 — 12M

TO CAD 160 — TS1 — 08 08 — 9B

TO CAD 197 — TS — 07 07 — 9

TO CAD 141 — N — 06 06 — 8M — (WCST)REL

TO CAD 113 (MFR DISC) OR CAD 249 — KR2 — 05 05 — 8

TO CAD 197 — WBT — 04 04 — 6

TO CAD 142 — MFCI — 03 03 — 3 — (WBT6)REL

TO CAD 133 — KR1 — 02 02 — 8B — (LWLF)REL

TO CAD 180 — TAN — 01 01 — 8M — (WMT1)REL

TO CAD 141 — FC — 00 00 — 1L — (WBLC)REL

TS (B-E)
ON WB/BS TEST UNIT (RR-FR)

DRAWING ISSUE	
71D	SLT DLP
74A	
76D	
77A	
78D	
79A	
80D	
82D	
83A	

ISSUE 102B

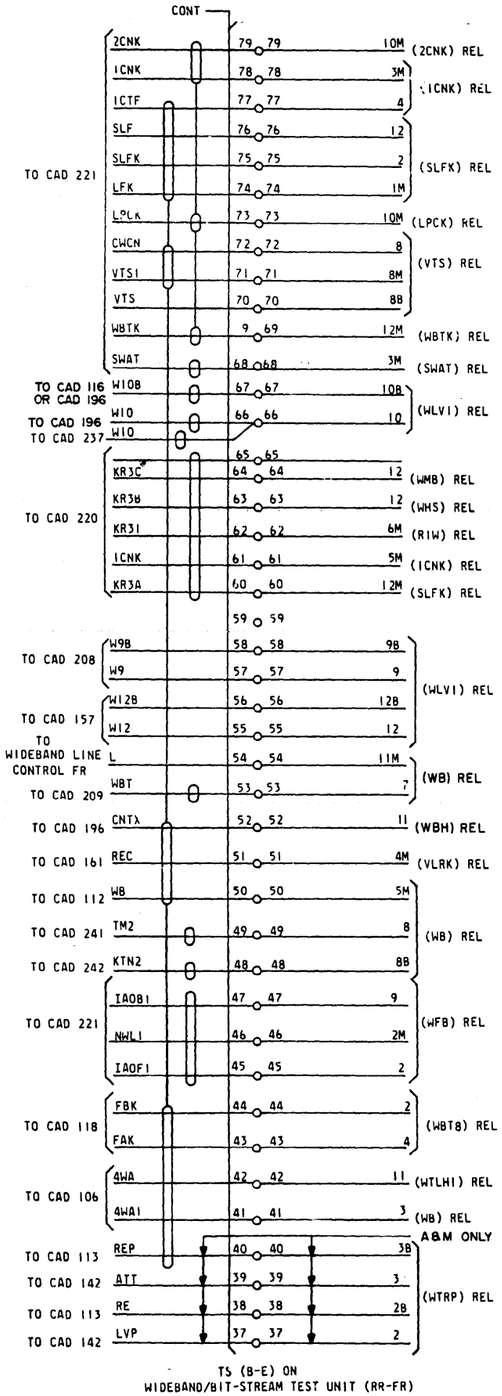
MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-673B

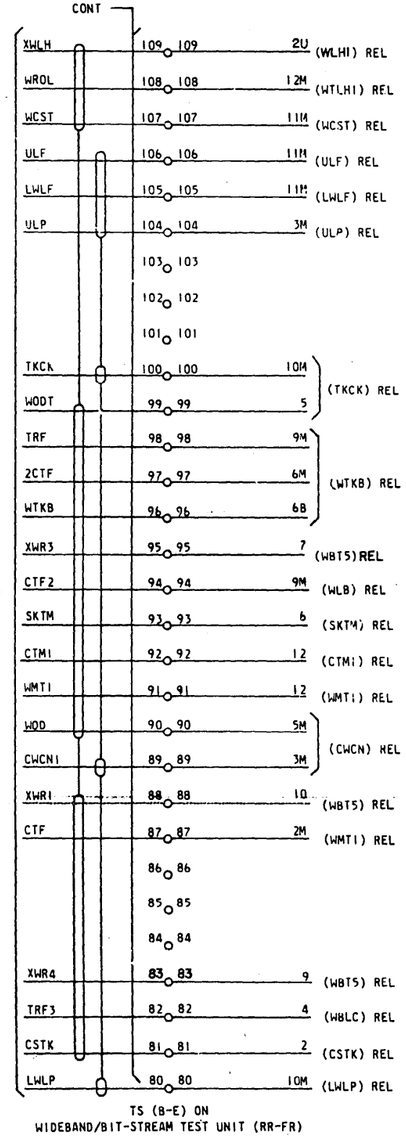
BELL TELEPHONE LABORATORIES INCORPORATED — 6S

PART OF CAD 222 (MFR DISC)

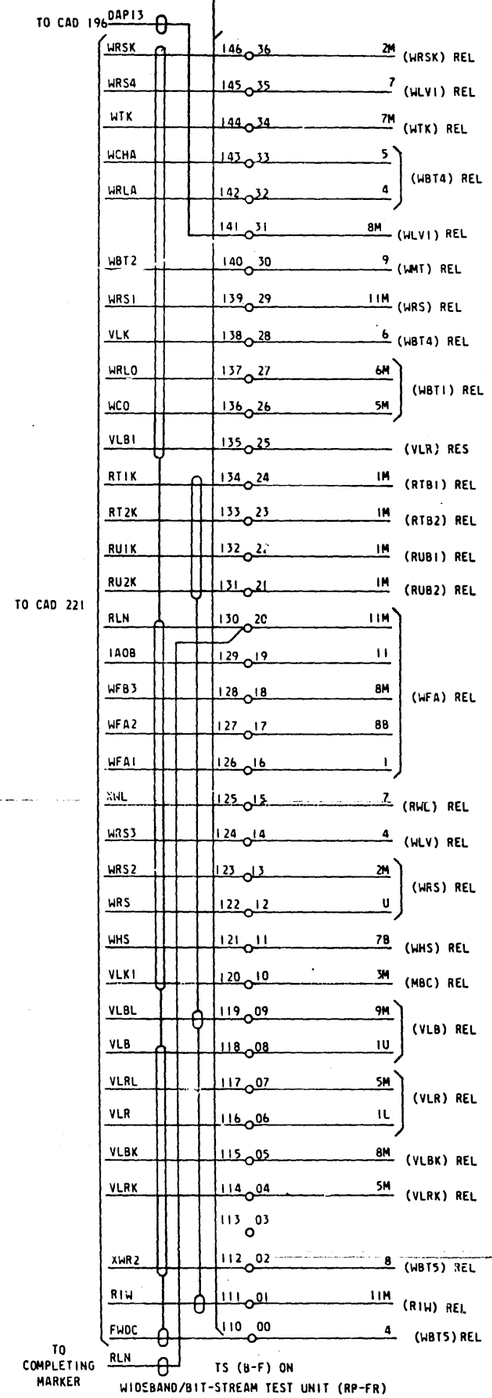
(FOR APP FIG 135)



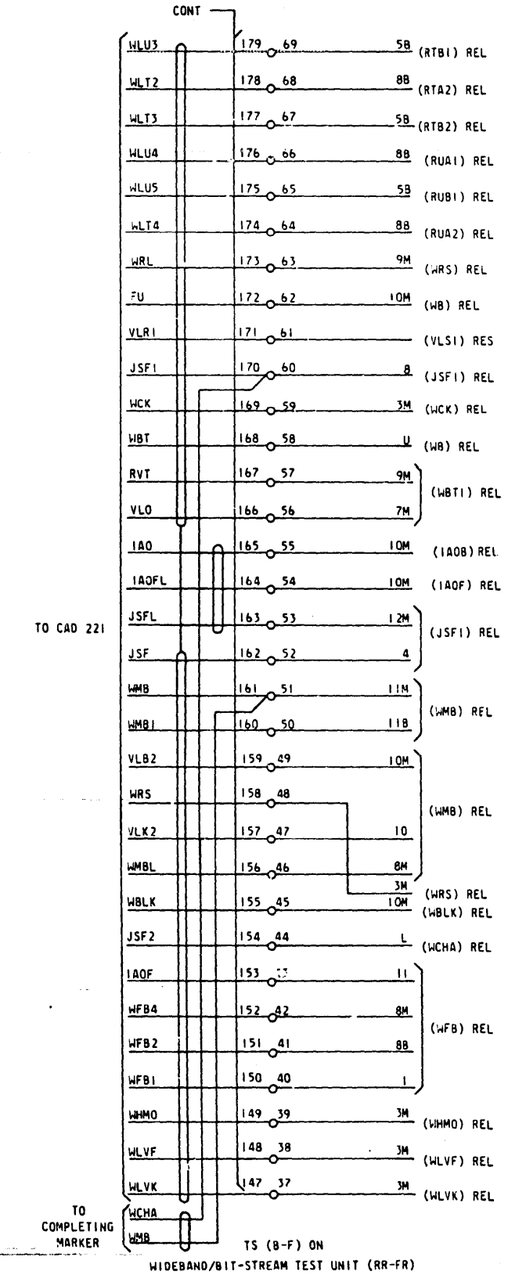
TS (B-E) ON
WIDEBAND/BIT-STREAM TEST UNIT (RR-FR)



TS (B-E) ON
WIDEBAND/BIT-STREAM TEST UNIT (RR-FR)



TS (B-F) ON
WIDEBAND/BIT-STREAM TEST UNIT (RP-FR)



TS (B-F) ON
WIDEBAND/BIT-STREAM TEST UNIT (RR-FR)

DRAWING ISSUE	J.L.	J.L.M.
71D		
74A		
76D		
77A		
78D		
79A		
80D		
82D		
83A		

ISSUE 107A

MASTER TEST CONTROL CIRCUIT (2)

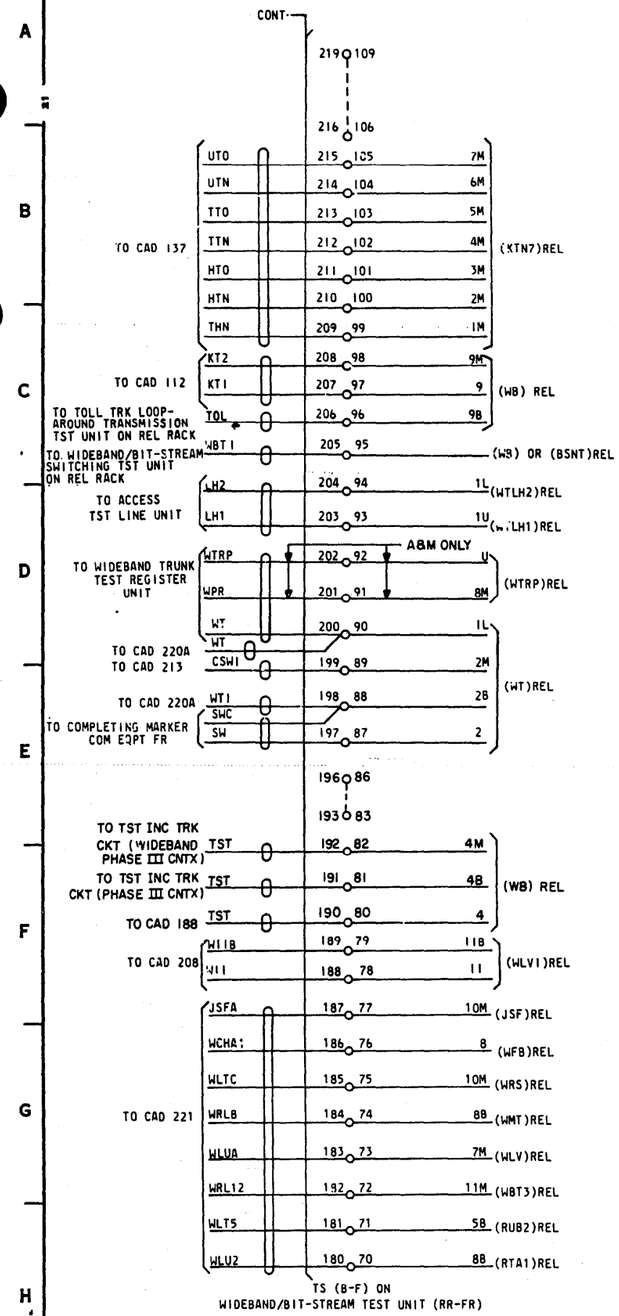
SD- 25800-01-G74

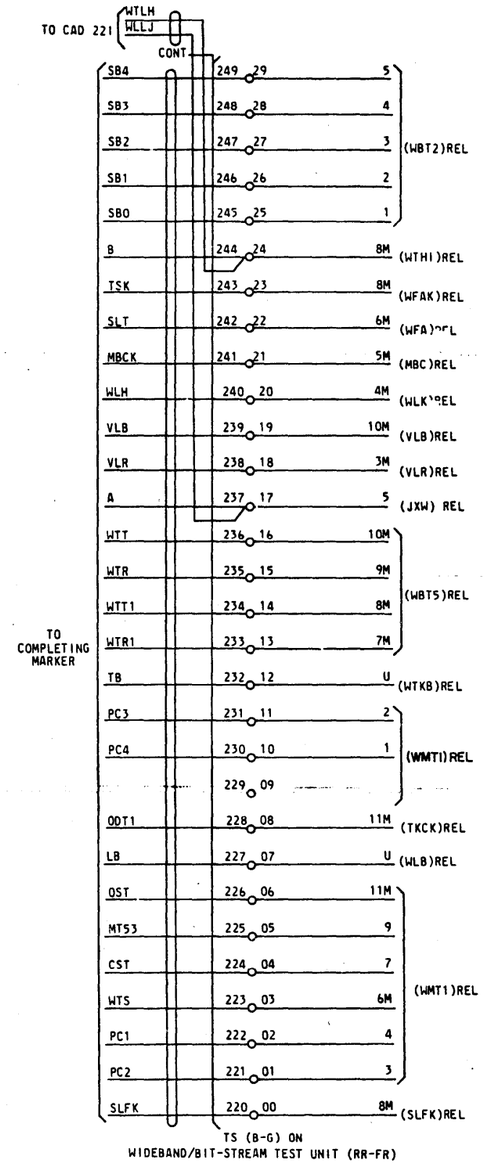
BELL TELEPHONE LABORATORIES INCORPORATED

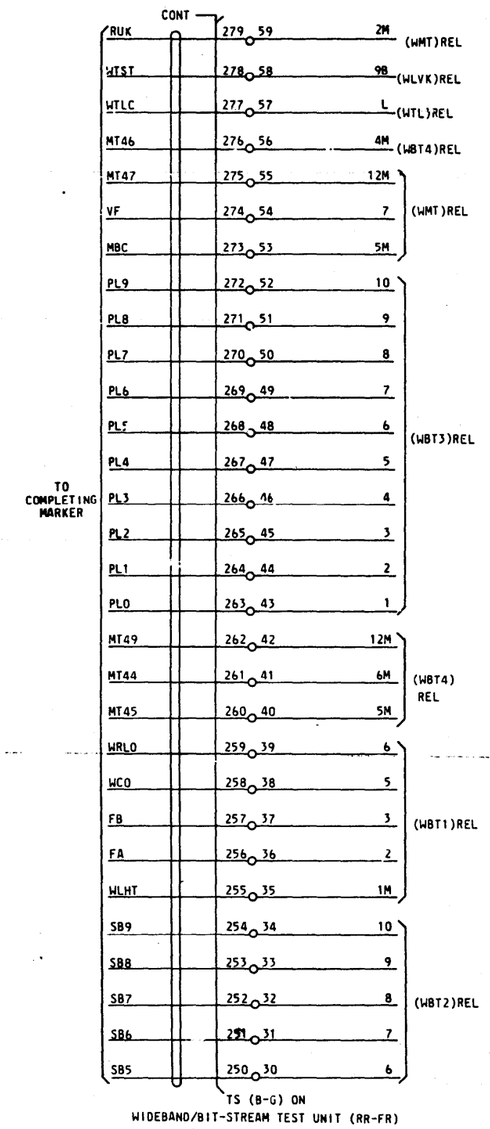
6S

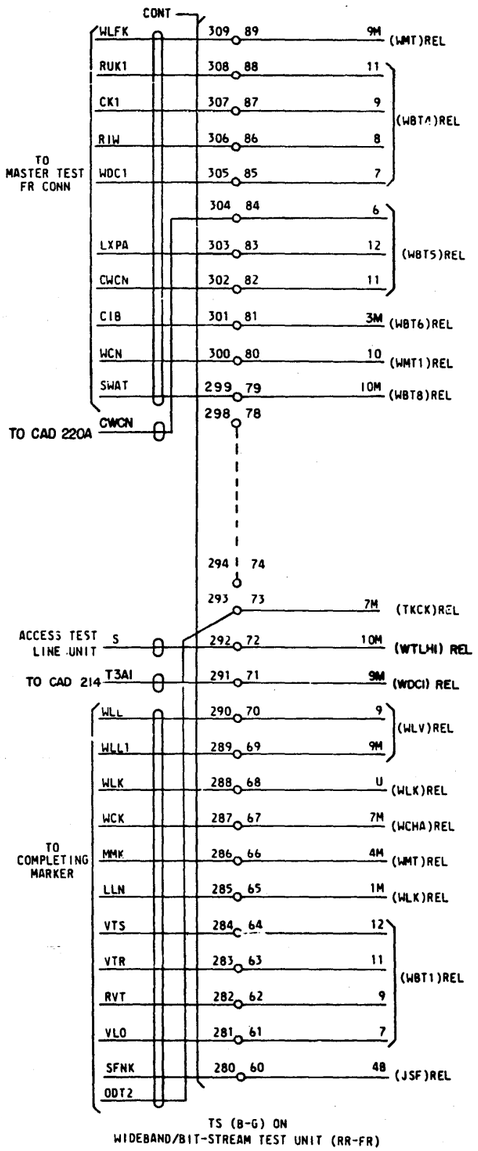
PART OF CAD 222 (MFR DISC)

(FOR APP FIG 135)









DRAWING ISSUE
71D
74A
77A
78D
79A
80D
81A
82D
83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

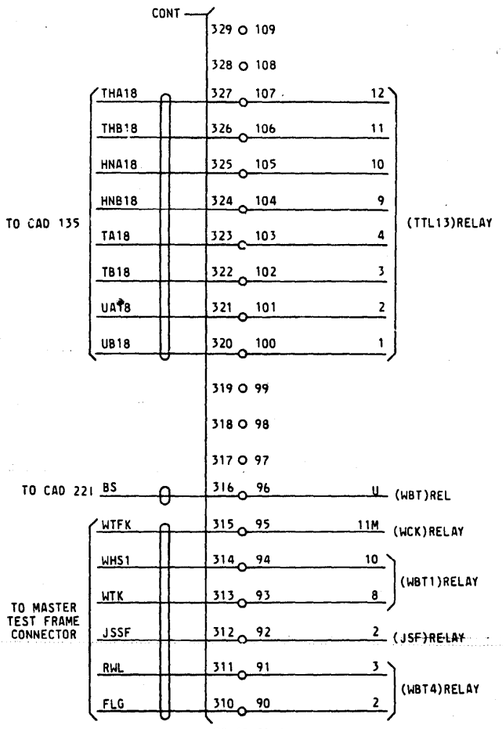
SD-25800-01-675

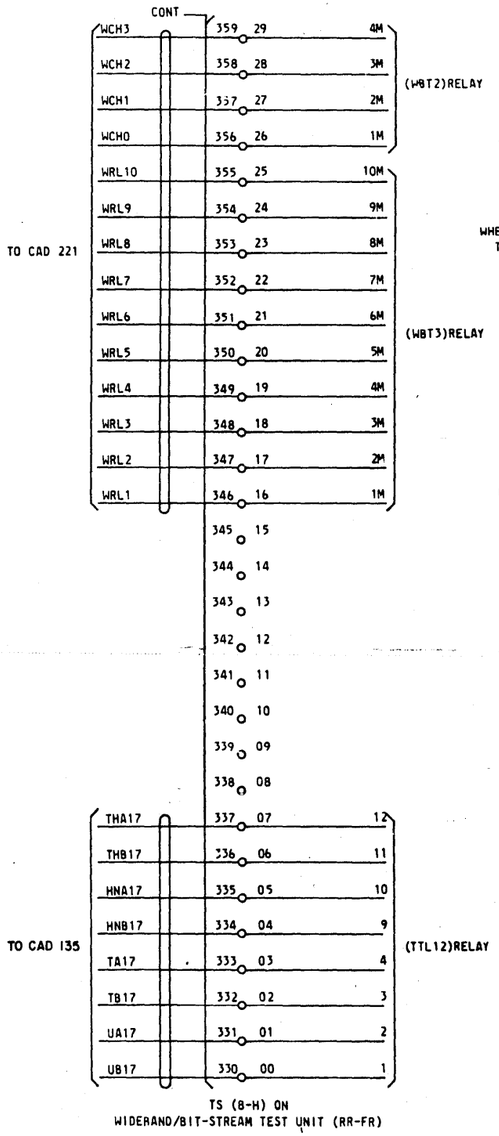
BELL TELEPHONE LABORATORIES INCORPORATED 6S

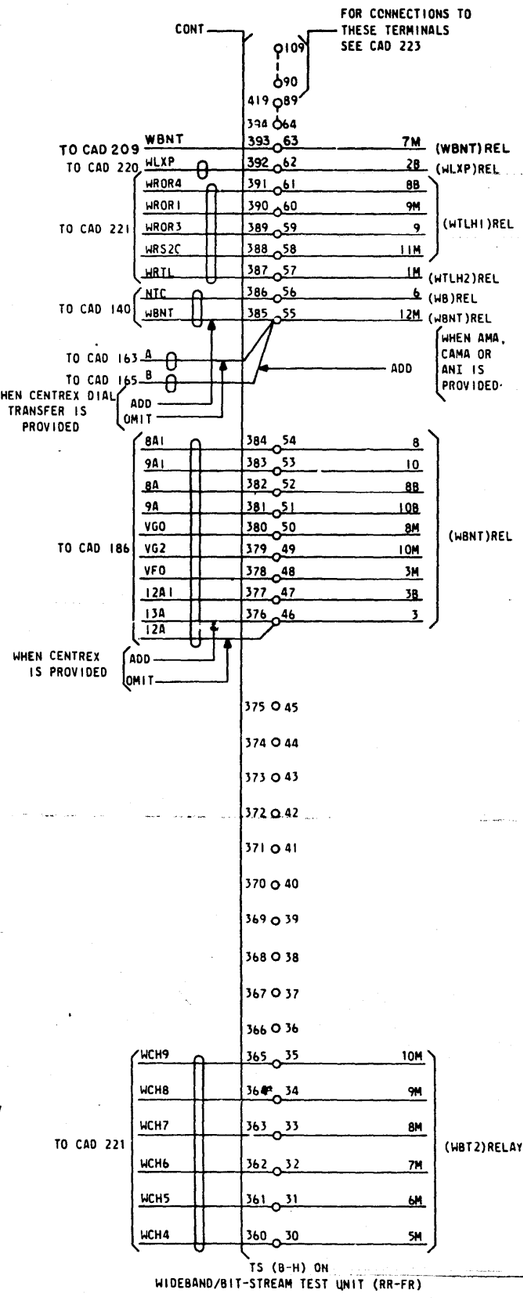
SD-25800-01-675

PART OF CAD 222 (MFR DISC)

(FOR APP FIG 135)

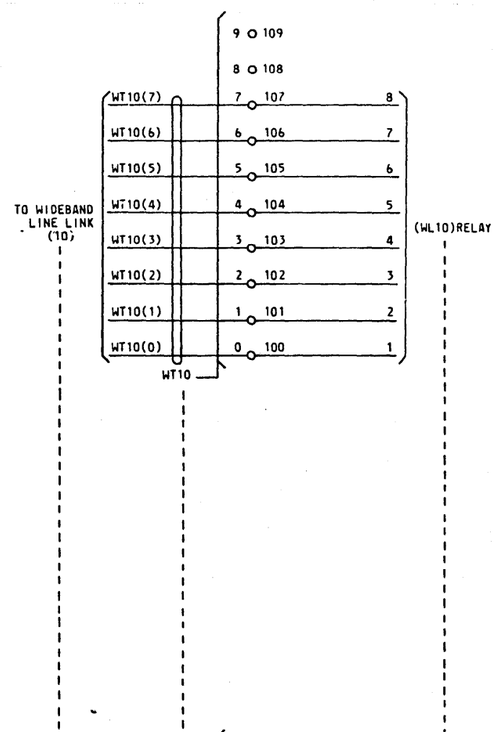


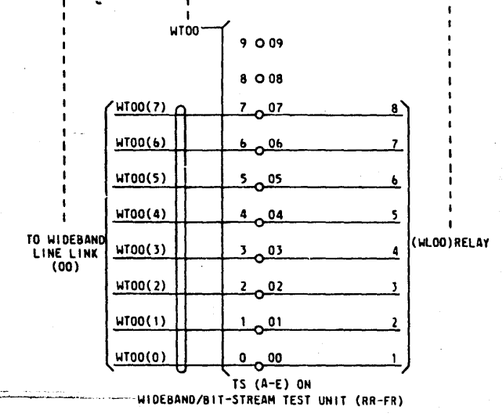




PART OF CAD 223 (MFR DISC)

(FOR APP FIG 136)
(SEE NOTE 1)





NOTES:
1. 5 LINE LINKS PER WIDEBAND LINE LINK FRAME.

MASTER TEST CONTROL CIRCUIT (2)	SD-25800-01-676
BELL TELEPHONE LABORATORIES INCORPORATED	6S

ISSUE 102B

DRAWING ISSUE	
71D	APP 66A
74A	
77A	
79A	
82D	
83A	

PART OF CAD 223 (MFR DISC)

(FOR APP FIG 136)
(SEE NOTE 1)

TO WIDEBAND LINE LINE (21)

WT21 (7) WT21 (6) WT21 (5) WT21 (4) WT21 (3) WT21 (2) WT21 (1) WT21 (0)

9 109 8 108 7 107 8 6 106 7 5 105 6 4 104 5 3 103 4 2 102 3 1 101 2 0 100 1

WT21

(WL21) REL

TO WIDEBAND LINE CLINK (32)

WT32 (7) WT32 (6) WT32 (5) WT32 (4) WT32 (3) WT32 (2) WT32 (1) WT32 (0)

9 109 8 108 7 107 8 6 106 7 5 105 6 4 104 5 3 103 4 2 102 3 1 101 2 0 100 1

WT32

(WL32) REL

TO WIDEBAND LINE LINK (39)

WT39 (7) WT39 (6) WT39 (5) WT39 (4) WT39 (3) WT39 (2) WT39 (1) WT39 (0)

9 109 8 108 7 107 8 6 106 7 5 105 6 4 104 5 3 103 4 2 102 3 1 101 2 0 100 1

WT39

(WL39) REL

TST

TO 3RD WIDEBAND REMOTE SWITCH SIGNAL CONTROL FRAME(02) OR WIDEBAND SUPPLEMENTARY REMOTE SWITCH SIGNAL CONTROL FRAME

TST39 — 230 109 11 (WL39) REL
TST00 — 200 70 11 (WL00) REL

TO 2ND WIDEBAND REMOTE SWITCH SIGNAL CONTROL FR(01)OR WIDEBAND SUPPLEMENTARY REMOTE SWITCH SIGNAC CONTROL FR

TST39 — 139 69 10 (WL39) REL
TST00 — 100 30 10 (WL00) REL

TS(8-D) ON WIDEBAND TEST CONTROL UNIT (COMPL TS SHOWN IN CAD 222)

SINGLE LEAD SWITCHBOARD CABLE

WIDEBAND LINE LINK NUMBER

WT39

TO ACCESS TEST LINES ASSOCIATED WITH 3RD WIDEBAND REMOTE SWITCH

WT00

WL

TO CAD 233

WL39 — 39 109 12M (WL39) REL
WL00 — 00 70 12M (WL00) REL

WT39

TO ACCESS TEST LINES ASSOCIATED WITH 2ND WIDEBAND REMOTE SWITCH

WT00

WT39

TO ACCESS TEST LINES ASSOCIATED WITH 1ST WIDEBAND REMOTE SWITCH

69 40

WT00

TO 1ST WIDEBAND REMOTE SWITCH SIGNAL CONTROL FR(00)OR WIDEBAND SUPPLEMENTARY REMOTE SWITCH SIGNAL CONTROL FR

TST39 — 039 39 9 (WL39) REL
TST00 — 000 100 9 (WL00) REL

TST

TS (8-C) ON WIDEBAND/BIT-STREAM TEST UNIT (RR-FR)

TO WIDEBAND LINE LINK (11)

WT11 (7) WT11 (6) WT11 (5) WT11 (4) WT11 (3) WT11 (2) WT11 (1) WT11 (0)

9 09 8 08 7 07 8 6 06 7 5 05 6 4 04 5 3 03 4 2 02 3 1 01 2 0 00 1

WT11

(WL11) REL

TS (A-F) ON WIDEBAND/BIT-STREAM TEST UNIT (RR-FR)

TO WIDEBAND LINE LINK (22)

WT22 (7) WT22 (6) WT22 (5) WT22 (4) WT22 (3) WT22 (2) WT22 (1) WT22 (0)

9 09 8 08 7 07 8 6 06 7 5 05 6 4 04 5 3 03 4 2 02 3 1 01 2 0 00 1

WT22

(WL22) REL

TS (A-G) ON WIDEBAND/BIT-STREAM TEST UNIT (RR-FR)

TO WIDEBAND LINE LINK (33)

WT33 (7) WT33 (6) WT33 (5) WT33 (4) WT33 (3) WT33 (2) WT33 (1) WT33 (0)

9 49 8 48 7 47 8 6 46 7 5 45 6 4 44 5 3 43 4 2 42 3 1 41 2 0 40 1

WT33

(WL33) REL

TS (A-H) ON WIDEBAND/BIT-STREAM TEST UNIT (RR-FR) (COMPL TS SHOWN IN CAD 222)

NOTES:
1. 5 LINE LINKS PER WIDEBAND LINE LINK FRAME.

DRAWING ISSUE
71D
74A
79A
82D

ISSUE 102B

MASTER TEST CONTROL CIRCUIT

SD-25800-01-077

BELL TELEPHONE LABORATORIES INCORPORATED

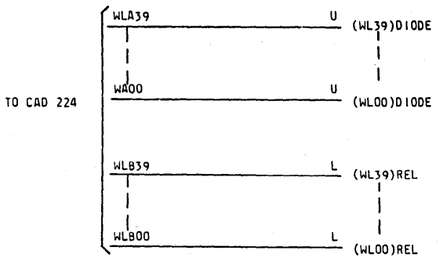
SD-25800-01-077

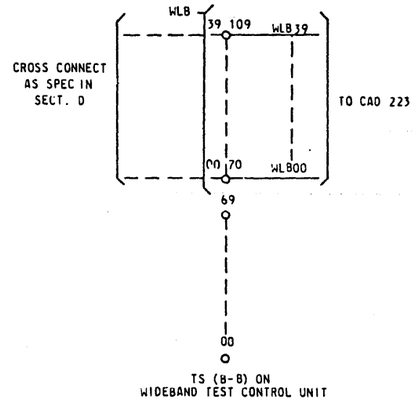
PART OF CAD 223 (MFR DISC)

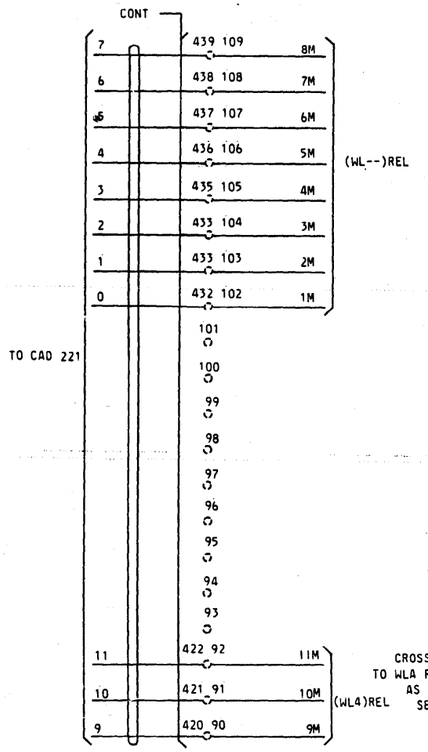
(FOR APP FIG 136)

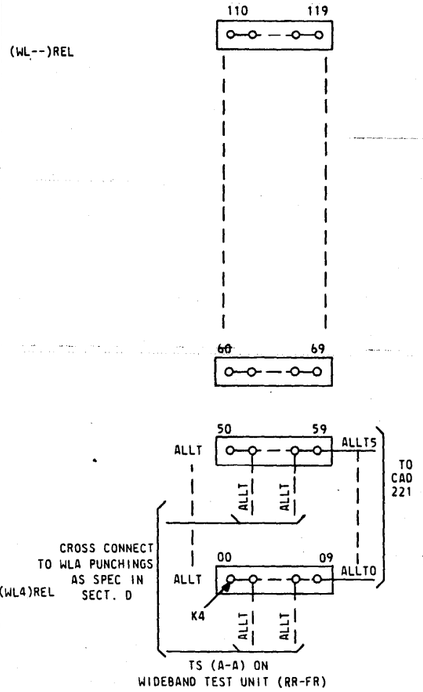
CAD 224 (MFR DISC)

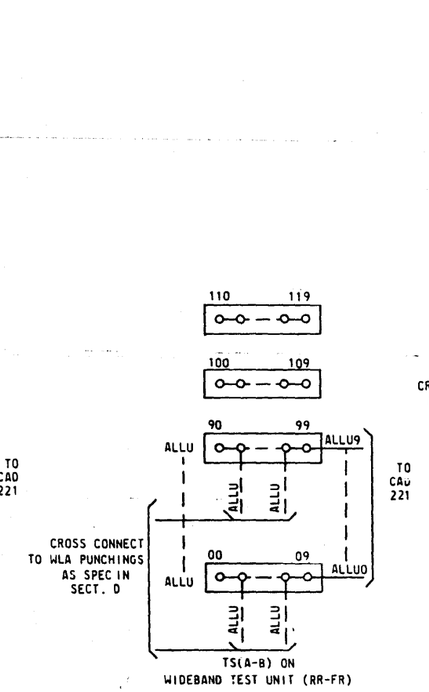
(FOR CROSS CONNECTIONS)
(SEE NOTE 1)

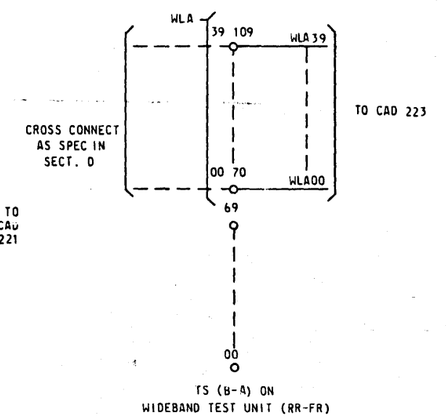












NOTES:
1. ALL GROUPS OF COMMON TERMINALS ON THIS SHEET HAVE TERMINALS IDENTIFIED AS SHOWN ON GROUP [ALLT00-09] BY THE DESIGNATION K4.

710 DLB
74A
79A

ISSUE
102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G78

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

CAD 225 (A&M ONLY)

(FOR APP FIG 137)

TO CAD 226: MBOV9 58 10M; MBOV8 48 9M; MBOV7 38 8M; MBOV6 28 7M; MBOV5 18 6M (AIC2) REL; MBOV4 57 5M; MBOV3 47 4M; MBOV2 37 3M; MBOV1 27 2M; MBOV0 17 1M

TO CAD 122: NGK 56 10M

TO MASTER TEST FR CONN: RO' 46 5M

TO CAD 136: TFB 36 9M; TFA 26 8M (AIC3) REL

NGK 16 (AIC1) DIODE

LR 55 (AIC) DIODE

TO CAD 226: AI33 45 8; AI32 35 7M; AI31 25 5; AI30 15 4M; AI34 54 9 (AIC3) REL

TO CAD 220: AIC 44 2 (AIC) REL

AI29 32 4B; AI28 42 4; AI27 32 3M; AI26 22 3B (AIC3) REL

TO CAD 226: AI25 12 3

AI24 51 4M; AI23 41 4 (AIC) REL

AI22 31 2 (AIC1) REL

AI21 21 10M; AI35 11 11 (AILT) REL

TS(A) ON MTF AIS UNIT ON OSAIS FR (COMPLETE TS SHOWN ON SD-25918-01)

TO AIS LINE CKT ON OSAIS FR: LB9 10; LB0 1 (AIC2) REL

TO SDR CONN CKT ON OSAIS FR: SS2 5M; SS1 4M; SS0 3M (AIC1) REL

LC; Z1E

TO CAD 220A: AI 14 11 (AIC3) REL

TO CAD 226: AI18 58 12B; AI17 48 12M; AI16 38 12; AI15 28 10B; AI14 18 (AIC) REL; AI13 57 10; AI12 47; AI11 37 8B; AI10 27 8; AI9 17 T TO SDR CONN CKT

TO CAD 220 / TO CAD 226: MT; ALB1 56 (AIC2) DIODE

TO CAD 220A: ND 46 LT ND TO AIS SDR CKT

TO CAD 226: AI8 36 3; AI7 26 1B; AI6 16 1M; AI5 55 1; AI4 45 U (AIC) REL

TO CAD 112: S 35 8M; R 25 6M; T 15 5M (AILT) REL

TO CAD 116: S(I)H 54 11; R(I)H 44 6; T(I)H 34 5 (AIC) REL

TO CAD 208: S(I)G; R(I)G; T(I)G

S(I)J 24 11B; R(I)J 14 6B; T(I)J 53 5B

TO CAD 116: A&M ONLY; KLT 43 9B; TO CAD 162: LL1 33 9; KLT1 23 1B; TO CAD 226: LV1 13 1 (AIC3) REL

REQUIRED WHEN AIS WITH DEDICATED SENDERS AND LINE LINK PULSING ARE PROVIDED

TO CAD 226: AI3 52 12M; AI2 42 12; AIC2 32 9M; AIC1 22 9 (AILT) REL

TO CAD 119: ND 12 11M (AIC3) REL

AI 51 11M (AIC2) REL

TO CAD 226: SS2 41 5; SS1 31 4; SS0 21 3; AI1 11 1M (AIC1) REL

TS (C) ON MTF AIS UNIT ON OSAIS FR

REQUIRED WHEN AIS WITH DEDICATED SENDERS IS PROVIDED AND THREE DIGIT CALLING, DIRECT ACCESS TO 101 ESS, AND LINE LINK PULSING ARE NOT PROVIDED

TO AIS SDR CKT ON OSAIS FR: ALB (AIC2) DIODE; LR (AIC) DIODE; CKD 8B (CKD) REL; LC

REQUIRED WHEN AIS WITH DEDICATED SENDERS IS PROVIDED AND LINE LINK PULSING IS NOT PROVIDED

CAD 226

(FOR APP FIG. K,1,2,3,7,8,11,13,14,15,17,58,60,74,111,144, AND 178)

AI35 1T (SDRA) REL; AI34 7T; NGK 3D (AIRI) KEY; LR 6B (NTH) REL; AI33 12B; AI32 9B (SDRA) REL; AI31 3B (MOI) REL; AI30 2T (CT4) REL; AI29 4B (KTNA) REL; AI28 7T (CKY) REL; AI27 5T (SDRA) REL; AI26 9T (LT) REL; AI25 1 (F) REL; AI24 11 (TST3) SW, SECT 3; AI23 2A (ST) KEY; AI22 2D (SIL) KEY; AI21 11T (KLTI) REL

MBOV9 10; MBOV0 1 (AIL) SW, SECT 3

SS2 3; SS1 2; SS0 1 (AIS) SW, SECT 3

TO CAD225: AI18 5B (OGT) REL; AI17 8B (MC 4) REL; AI16 5B (SDR) REL; AI15 (GLMN) KEY OR (ITNP) REL; AI14 2D (ND) KEY; AI13 5B (MKT1) REL; AI12 1D (LTNO) KEY; AI11 2B (SDR) REL; AI10 (ORIG) REL OR (SDR2) REL; AI9 12 (AIS) SW, SECT 1; AI8 12T (KLTI) REL; AI7 8T; AI6 2T (MC4) REL; AI5 (LLP2) REL OR (LLS) KEY; AI4 3A (AIS) KEY; AI3 3T; AI2 4T (TKTI) REL; AI1 12 (AIL) SW SECT 1; AI 2C (NTIL) KEY; 4T (SDRA) REL

TI; TK

TO CAD 241 (MFR DISC.)

TO CAD 225: KLTI; LVI; KLTI; LVI

TO CAD 245

A&M ONLY: 9B (KLTI) REL; 9B (LVI) REL; 3B (BN) REL

TO CAD 207: KR3 11T (KLTI) REL

TO SDR CONN CKT ON OSAIS FR: TST1 1 (AIS) SW, SECT 1

TO AIS SDR CKT ON OSAIS FR: TST 1 (AIL) SW, SECT 1; DL4 6B; DL4 5B (DL4) KEY

TO CAD 220: DL4 2D (AIRI) KEY; RIA; BNA (RIP) KEY OR (BN) REL; IB IA 6T (TBI) REL OR TO (TBI) DIODE (A&M ONLY)

TO AIS LINE CKT ON OSAIS FR: LLT9 10; LLTO 1 (AIL) SW, SECT. 2

LK 3C (LTH) KEY

TO CAD 137: FG 10B (SDRA) REL

TO CAD 225: ALB1 1D; AIC1 1A (SIL) KEY; AIC2 (MBF) LP

TO DAS ETS: AIRI 3B (PAIRI) KEY

TO CAD 245: BN 4B (BN) REL; KRI 11T (KLTI) REL

TO CAD 260: SS3 4 (AIS) SW, SECT 3

DRAWING ISSUE: 79A; 81A; 82D

ISSUE 106B

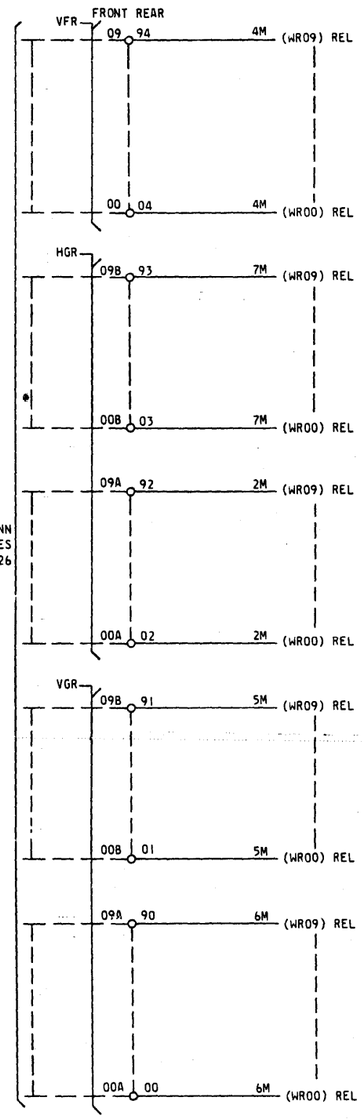
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G79

BELL TELEPHONE LABORATORIES INCORPORATED 6S

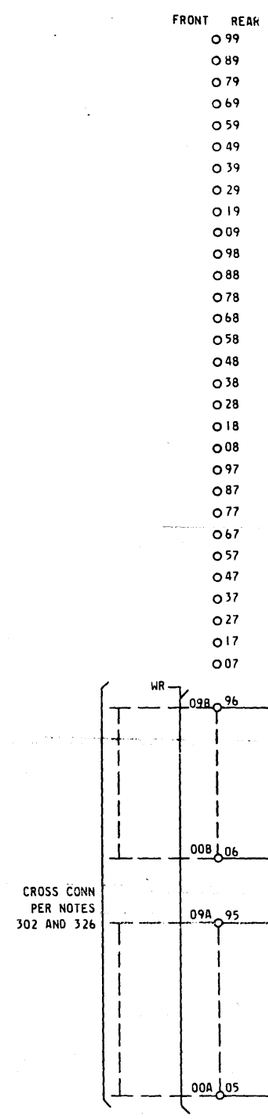
25800-01-679

CAD 227 (MFR DISC)

(FOR APP FIG 139)



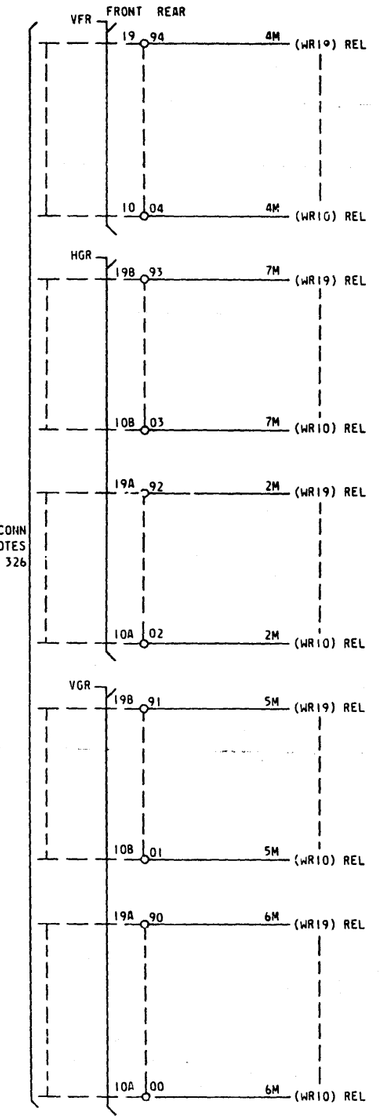
TS (A-A) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)



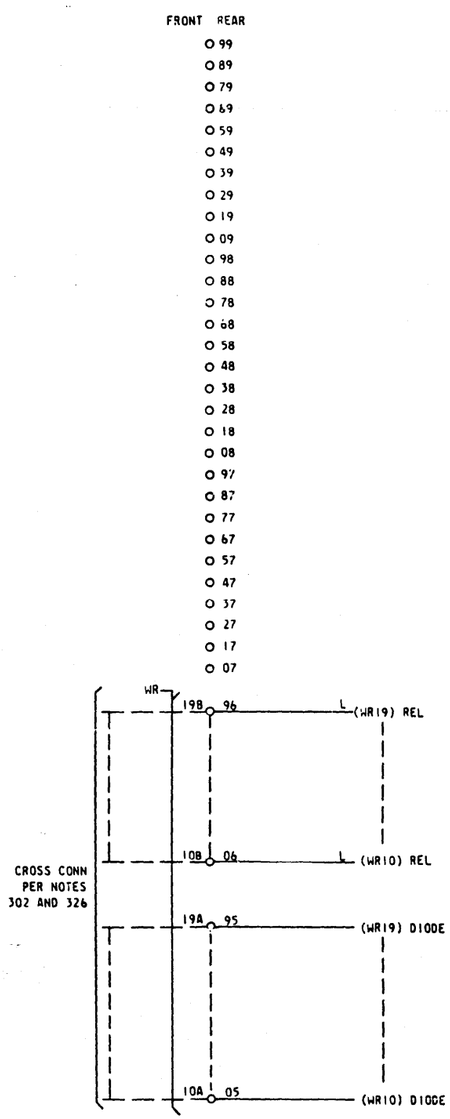
TS (A-A) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

CAD 228 (MFR DISC)

(FOR APP FIG 139)



TS (A-B) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)



TS (A-B) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

DRAWING ISSUE
74A
76D

ISSUE
102B

MASTER TEST CONTROL CIRCUIT

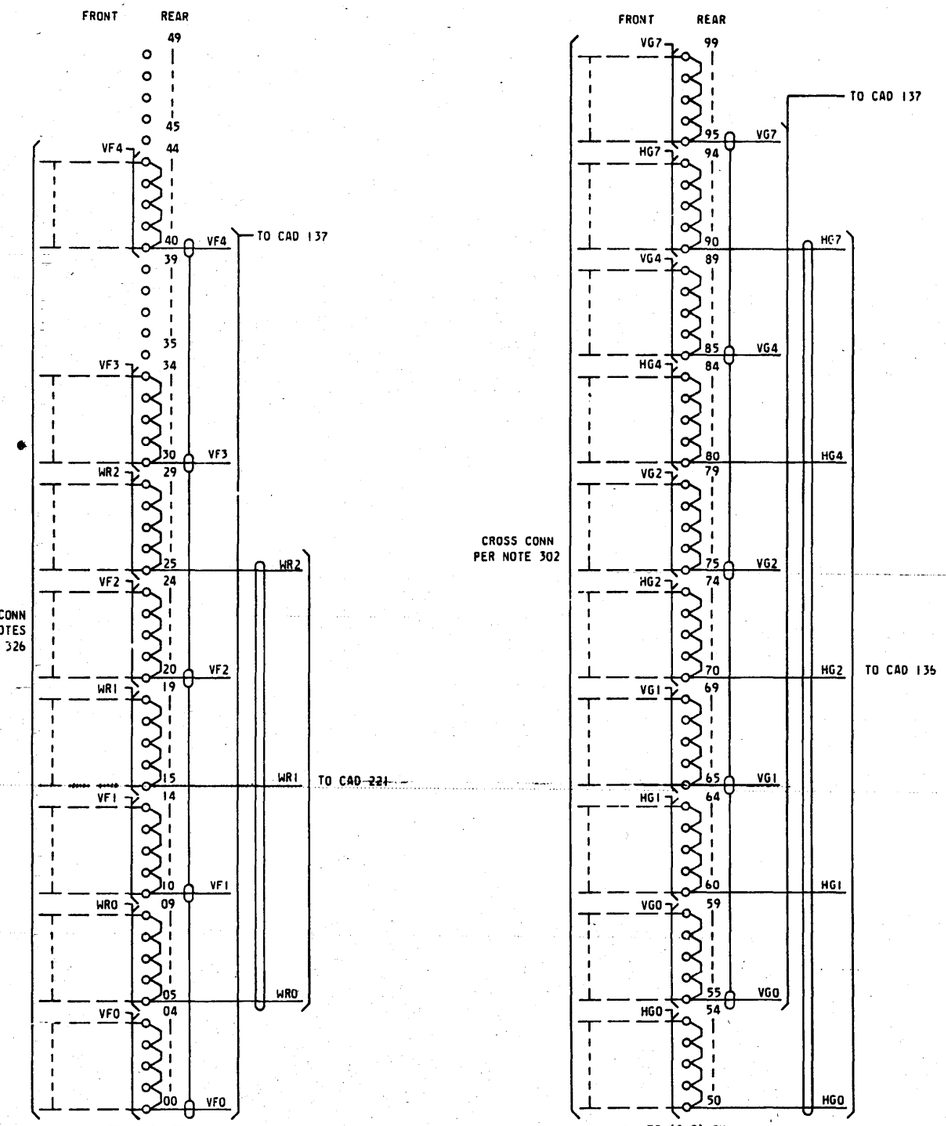
2

SD-25800-01-680

BELL TELEPHONE LABORATORIES
INCORPORATED

SIZE
6S

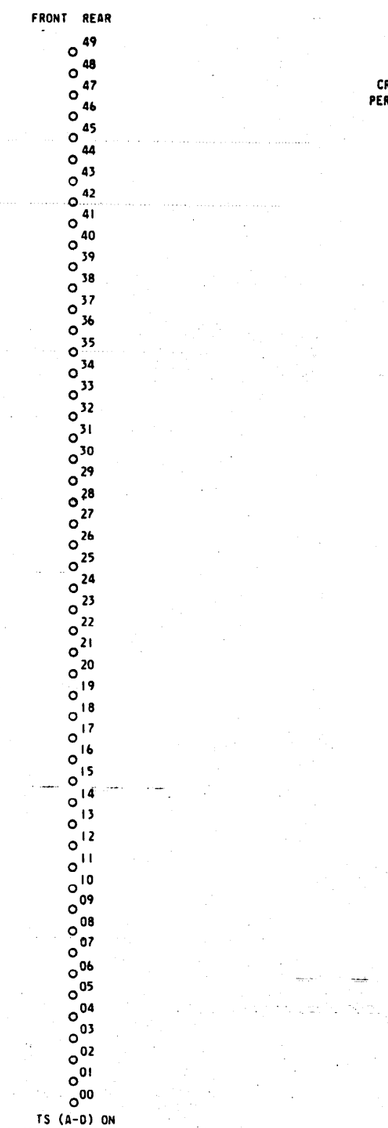
CAD 229 (MFR DISC)
(FOR APP FIG 134)



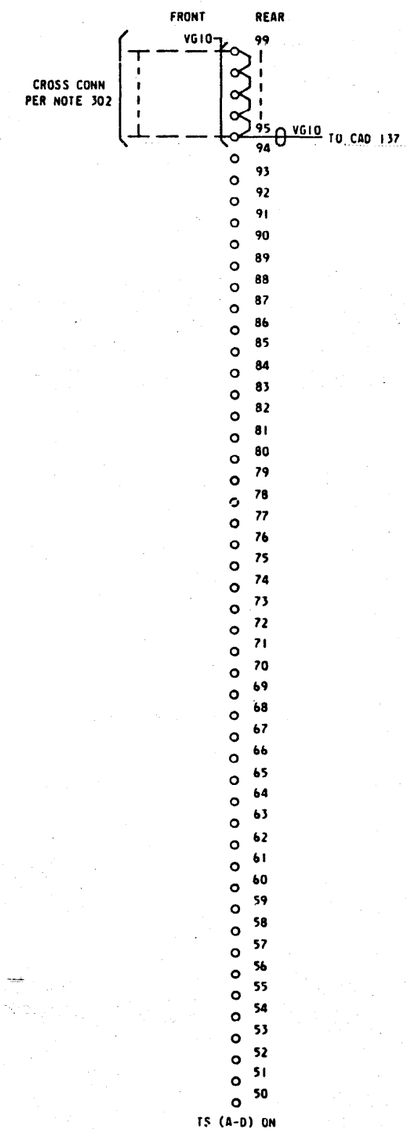
TS (A-C) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

TS (A-C) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

CAD 230 (MFR DISC)
(FOR APP FIG 6)



TS (A-D) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)



TS (A-D) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

DRAWING ISSUE 74A

ISSUE 102B

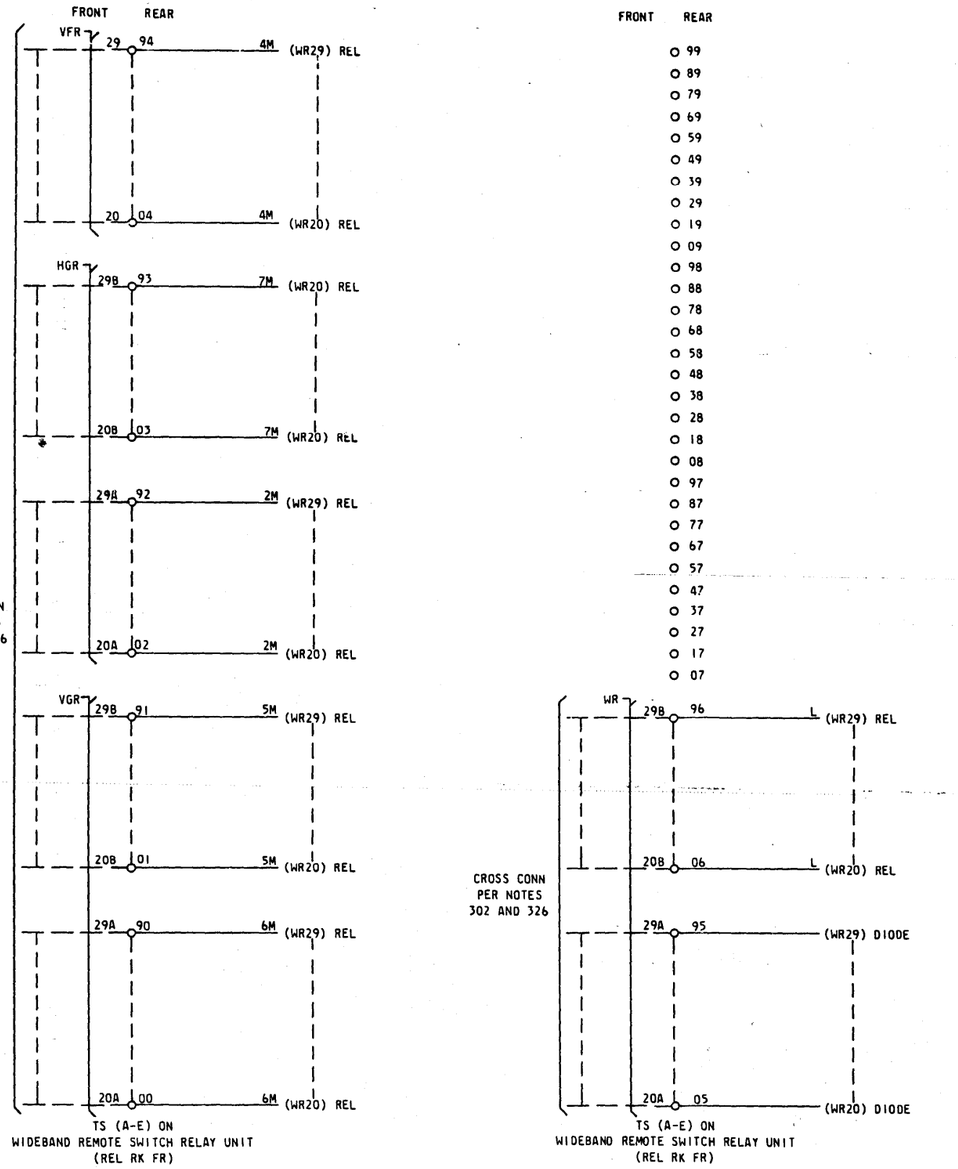
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G81

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SD-25800-01-G81

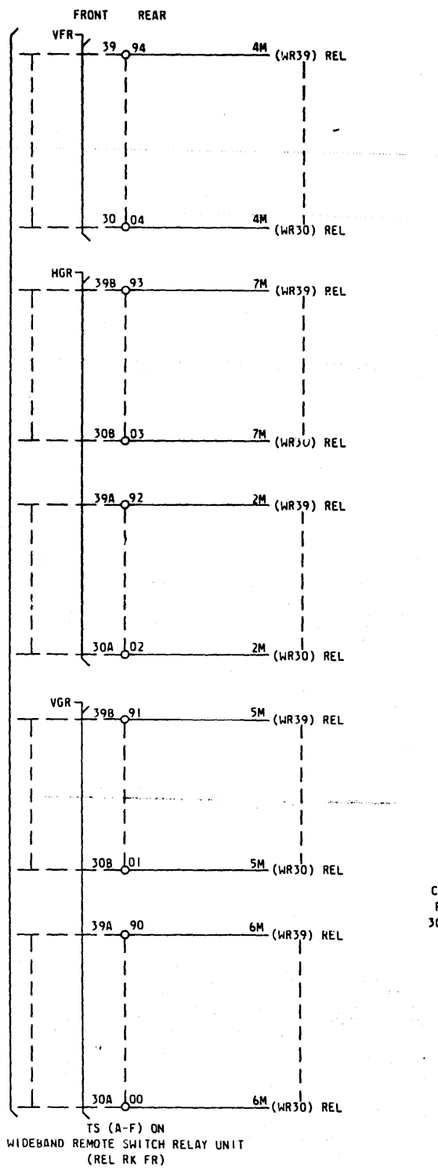
CAD 231 (MFR DISC)

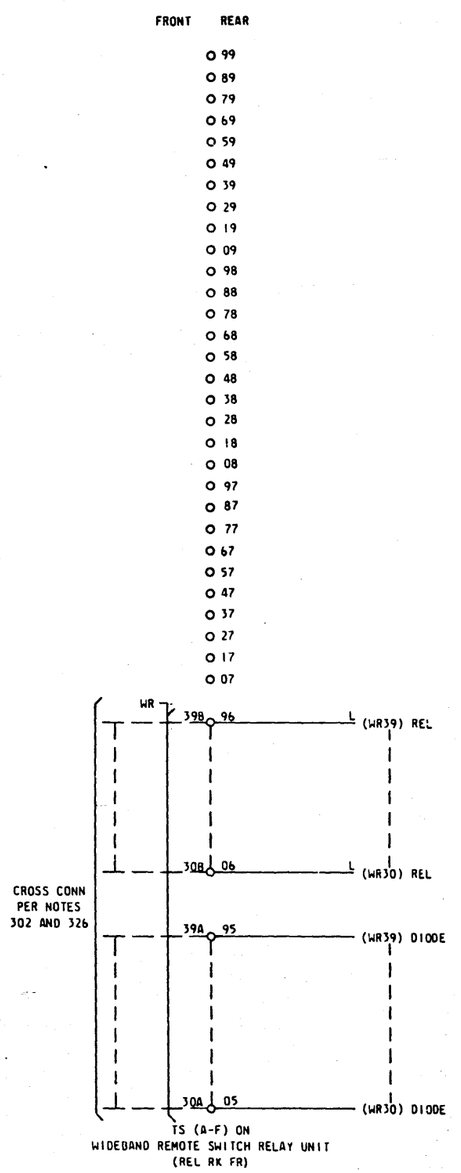
(FOR APP FIG 139)



CAD 232 (MFR DISC)

(FOR APP FIG 139)





DRAWING ISSUE
74A
76D

ISSUE
102B

MASTER TEST CONTROL CIRCUIT (2)

SD-25800-01-G82

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE CODE 6S

CAD 233 (MFR DISC)
(FOR APP FIG 136)

FRONT REAR

49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 00

TS (A-G) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

FRONT REAR

WL 39 99 WL39

CROSS CONN
PER NOTE
326

TO CAD 223

00 60 59 58 57 56 55 54 53 52 51 50 WL00

TS (A-G) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

CAD 234 (MFR DISC)
(FOR APP FIG 139)

49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01 00

TO CAD 151 WRA3 3M

(WR00) REL

TO FRAME GRD (863) GRD BAR 2

TS (A-H) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50

TS (A-H) ON
WIDEBAND REMOTE SWITCH RELAY UNIT
(REL RK FR)

DRAWING ISSUE 74A

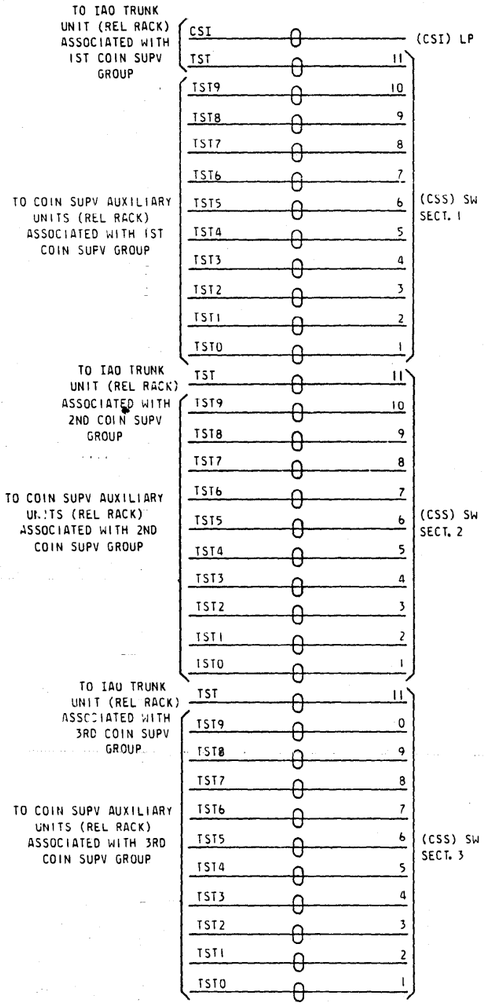
ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-683

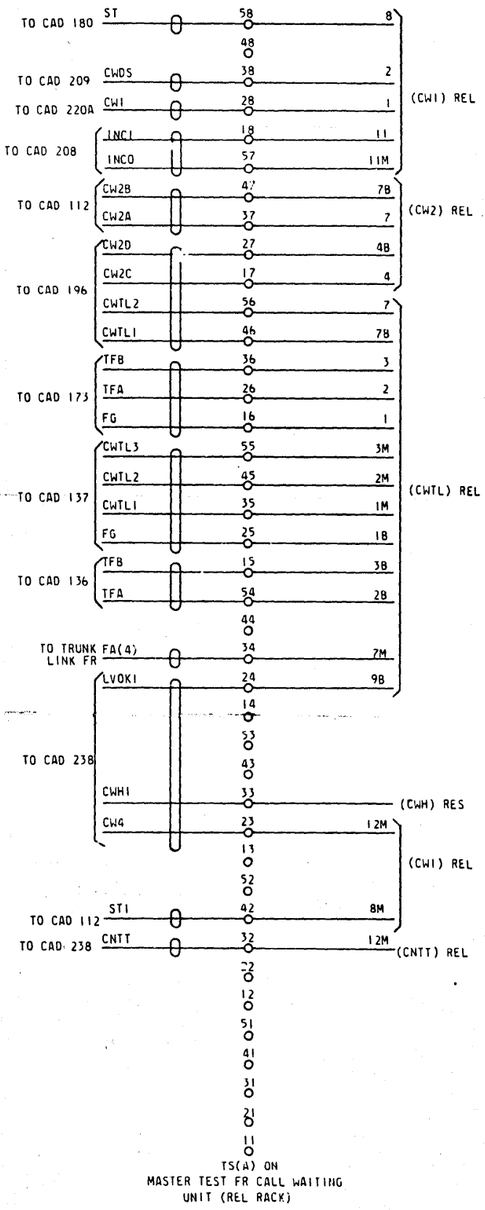
BELL TELEPHONE LABORATORIES INCORPORATED 6S

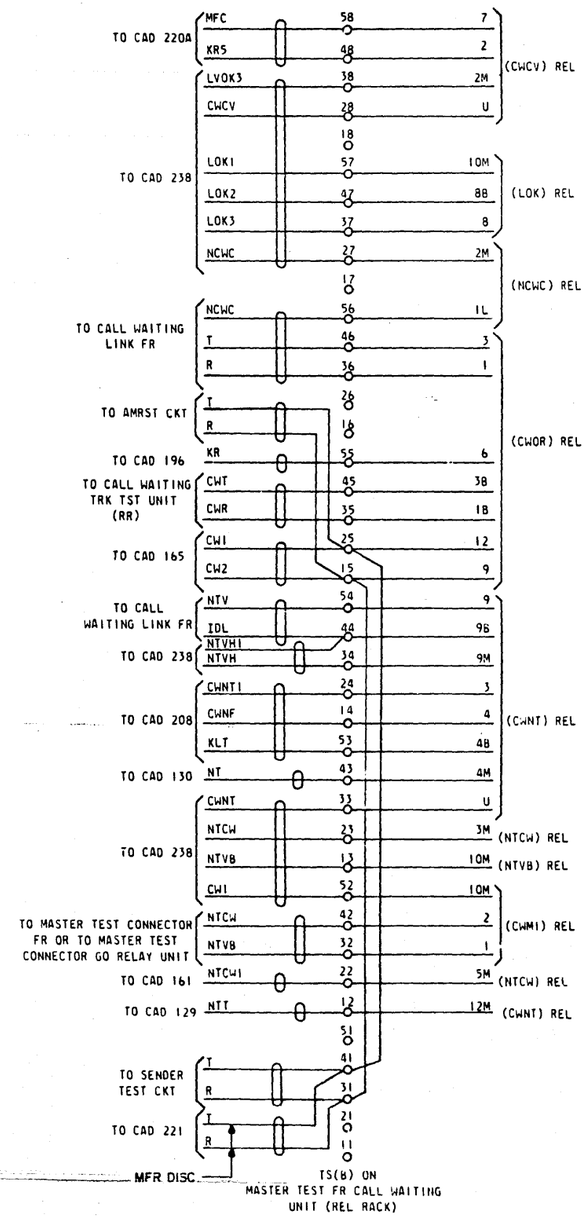
SD-25800-01-683

CAD 236
(FOR APP FIG 150)



PART OF CAD 237
(FOR APP FIG 146)





DRAWING ISSUE
76D
78D
80D
82D
83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

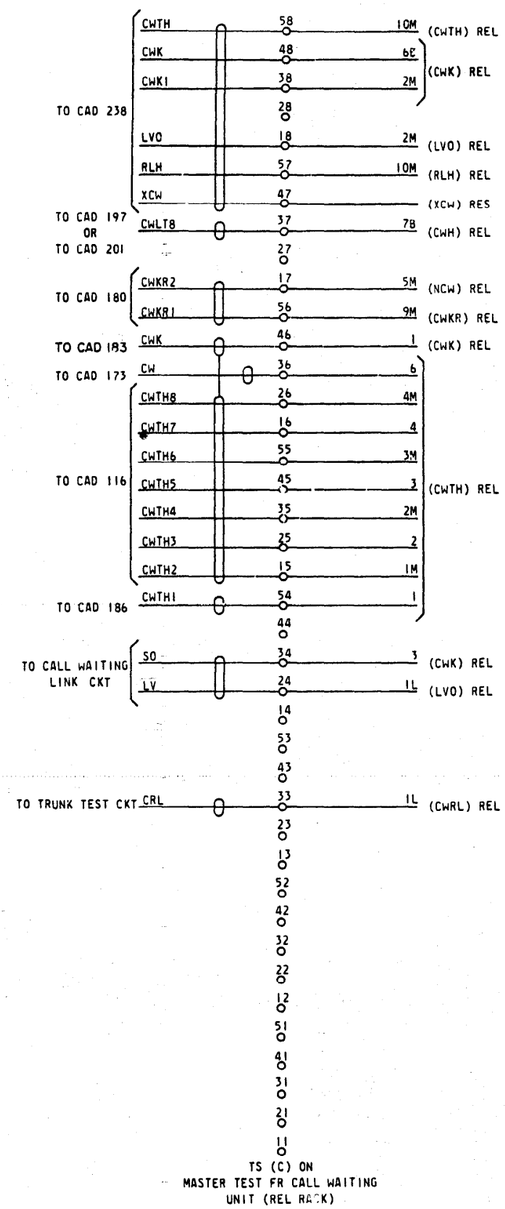
SD-25800-01-G85

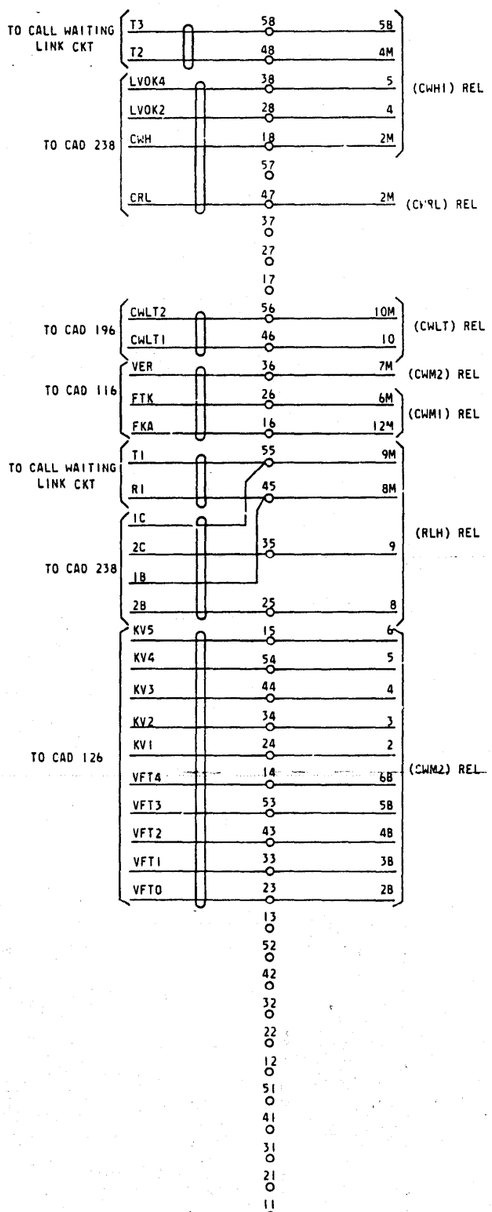
BELL TELEPHONE LABORATORIES INCORPORATED

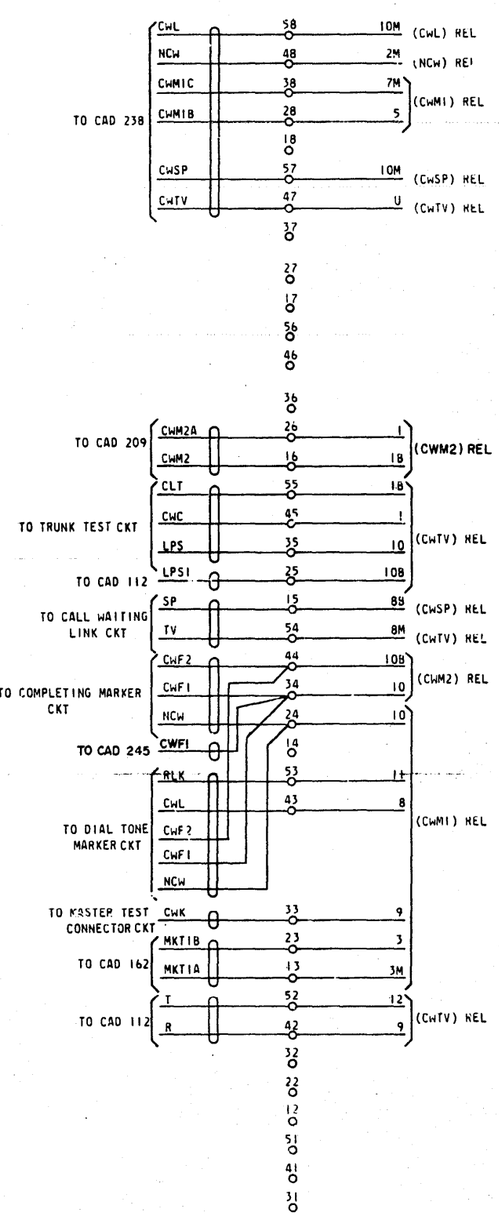
6S

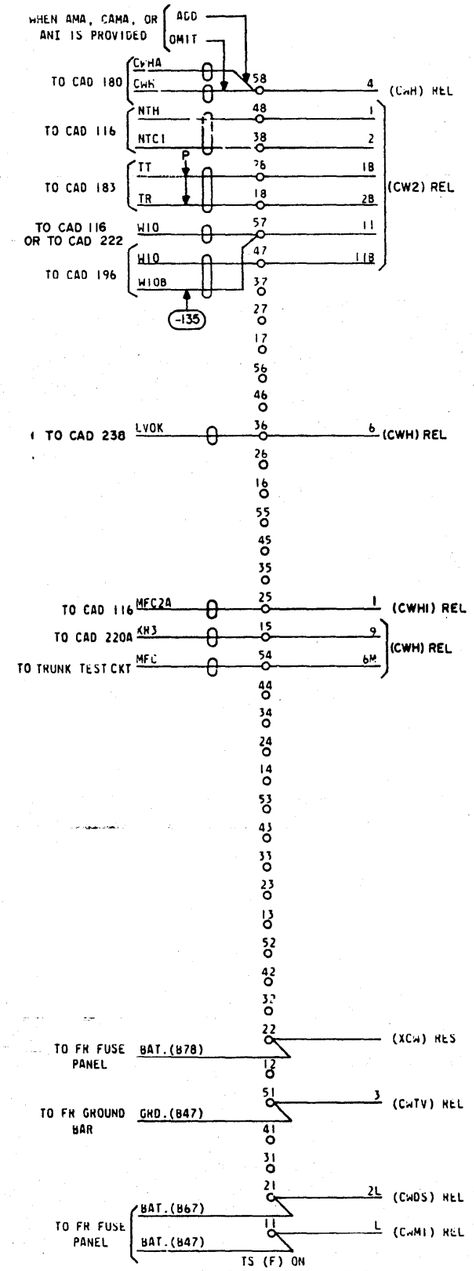
PART OF CAD 237

(FOR APP FIG. 146)









78D
80D
82D

ISSUE 107A

MASTER TEST CONTROL CIRCUIT

2

SD-25800-01-G86

BELL TELEPHONE LABORATORIES INCORPORATED

6S

CAD 238

(FOR APP FIG 6,78,145,153 & 158)

DRAWING ISSUE
76D
78D
80D
83A

CNTT — (CNTT)LP
NCWC — (NCWC)LP
CWH — (CWH)LP
CWK1 — (CWK)LP
CWL — (CWL)LP
CWTH — (CWTH)LP

CWSP — (CWSP)LP

CRL — (CRL)LP

LOK1 — (LOK)LP

TO CAD 237 — LVO — (LVO)LP
NCW — (NCW)LP
RLH — (RLH)LP
CWCV — 3B — (CWCV)KEY

CWTV — 3A — (CWTV)KEY
NTCW — (NTCW)LP
NTVB — (NTVB)LP
CWNT — 3A
CW1 — 2A — (CWNT)KEY
NTVH — 2C
NTVH1 — 1C — (NTVH)KEY
TO CAD 237 — CW4 — 12 — (FT)SW-SECT. 5
TO CAD 220A — CW1 — 12 — (CWC)SW-SECT. 1
CWH1 — 4
CWM1C — 3
XCW — 1 — (CW)SW-SECT. 1
CWK — 5
CWM1B — 1 — (CW)SW-SECT. 2
TO CAD 237 — 1C — 1C
2C — 2C
1B — 1B
2B — 2B — (RLH)KEY
LVOK — 1D
LVOK1 — 2D
LVOK4 — 3A
LVOK3 — 2A
LVOK2 — 1A — (LVOK)KEY
LOK3 — 3D
LOK2 — 1D — (CWH)KEY
S1 — 2D
TO CALL WAITING LINK CKT — CWT — (CWT)LP
BZ — 3C — (NTVH)KEY

TO CALL WAITING LINK CKT

CWC — 1 — (CWC)SW-SECT. 1
CW11 — 11
CW1 — 1 — (CWC)SW-SECT. 2
FI5 — 6
FTO — 1 — (FT)SW-SECT. 5
FU9 — 10
FUO — 1 — (FU)SW-SECT. 5

LBY — 7
XS — 3
CWH — 2 — (CW)SW-SECT. 2
TO CAD 245 — PS — 8
TO CAD 210 — IRL — (IRL)LP
IRPT1 — 3B — (IRPT)KEY
TO CAD 147 — PT1 — 2
LC

TO CAD 251 — PSTI9 — 3B — (2LTT) KEY
PSTI8 — 3A — (ILTT) KEY
PSTI5 — 3C — (TP) KEY
PST6 — (PSG) LP
PST5 — (ROH) LP
TO CAD 220B — N2 — 2A
TO CAD 112 — N2 — 1A — (DYTS) KEY
LC OR SWBD CA

TO CAD 64 (MFR DISC.) OR TO CAD 96 (MFR DISC.) OR TO CAD 163 — NROH — 3B — (NROH) KEY
TO CAD 251 — 2LTT — 2B

ISSUE 101A

MASTER TEST CONTROL CIRCUIT — (2) — SD-25800-01-687

BELL TELEPHONE LABORATORIES INCORPORATED — SIZE 6S

CAD 239
(FOR APP FIG 151 AND 152)

CAD 240
(FOR APP FIG 81 AND 151)

DRAWING ISSUE 78D

TO AGC CONTROL INPUT UNIT FOR COMPL MKR 0 (RR FR)

ADD9 58 10M (AGC)REL
ADD0 17 1M

AGC9 56 10M (AGB)REL
AGC0 15 1M

TO CAD 208

AG1 43 U (AGC)REL
AG0 33 U

CMI1 13 12M
CMI0 13 11M (AGA)REL
CM9 52 10M
CM0 11 1M

TO CAD 240

TS (B) ON SUPL AGC UNIT (RR FR)

COMPL MKR 2,5,8,OR 11

TO AGC UNIT (RR)
ART9 58 10
ART5 18 6 (AGCM 2,5, 8,OR 11)REL

TO AGC CONT INPUT UNIT (RR)
ART4 57 5
ART0 17 1

TO CE FR ART C 56 11

COMPL MKR 1,4,7,OR 10

TO CE FR ART C 16 11

TO AGC UNIT (RR)
ART9 55 10
ART5 15 6 (AGCM 1,4,7, OR 10)REL

TO AGC CONT INPUT UNIT (RR)
ART4 54 5
ART0 14

COMPL MKR 0,3,6,OR 9

TO CE FR ART C 13 11

TO AGC UNIT (RR)
ART9 52 10
ART5 12 6 (AGCM 0,3,6, OR 9)REL

TO AGC CONT INPUT UNIT (RR)
ART4 51 5
ART0 11 1

TS(C) FOR COMPL MKRS 0,1, AND 2
TS(D) FOR COMPL MKRS 3,4, AND 5
TS(E) FOR COMPL MKRS 6,7, AND 8
TS(F) FOR COMPL MKRS 9,10, AND 11
(RR FR)

TO CAD 196 KR 25 8M (ADD0)REL
TO CAD 208 AGCK 15 10

ADD9 54 1 (ADD9)REL
ADD8 44 12 (ADD8)REL
ADD7 34 1 (ADD7)REL
ADD6 24 12 (ADD6)REL
ADD5 14 1 (ADD5)REL
TO CAD 240
ADD4 53 12 (ADD4)REL
ADD3 43 1 (ADD3)REL
ADD2 33 12 (ADD2)REL
ADD1 23 1 (ADD1)REL
ADD0 13 12 (ADD0)REL

TO FRAME GROUND BAR GRD(B64) 51 1M (ADD7)REL
TO FRAME FUSE PANEL BAT.(B80) 11 2L

TS (A) ON SUPL AGC UNIT (RR FR)

TO CAD 238
M17 8 SECT 6
M10 1
M9 10 SECT 1
M0 1 (MTU)SC
CMI1 CMI1
CMO CMO

THESE LEADS SHALL BE CONNECTED TO THE M() LEADS ASSOC WITH EXISTING COMPL MKR

TO CAD 239
ADD9 (ADD9)LP
ADD0 (ADD0)LP

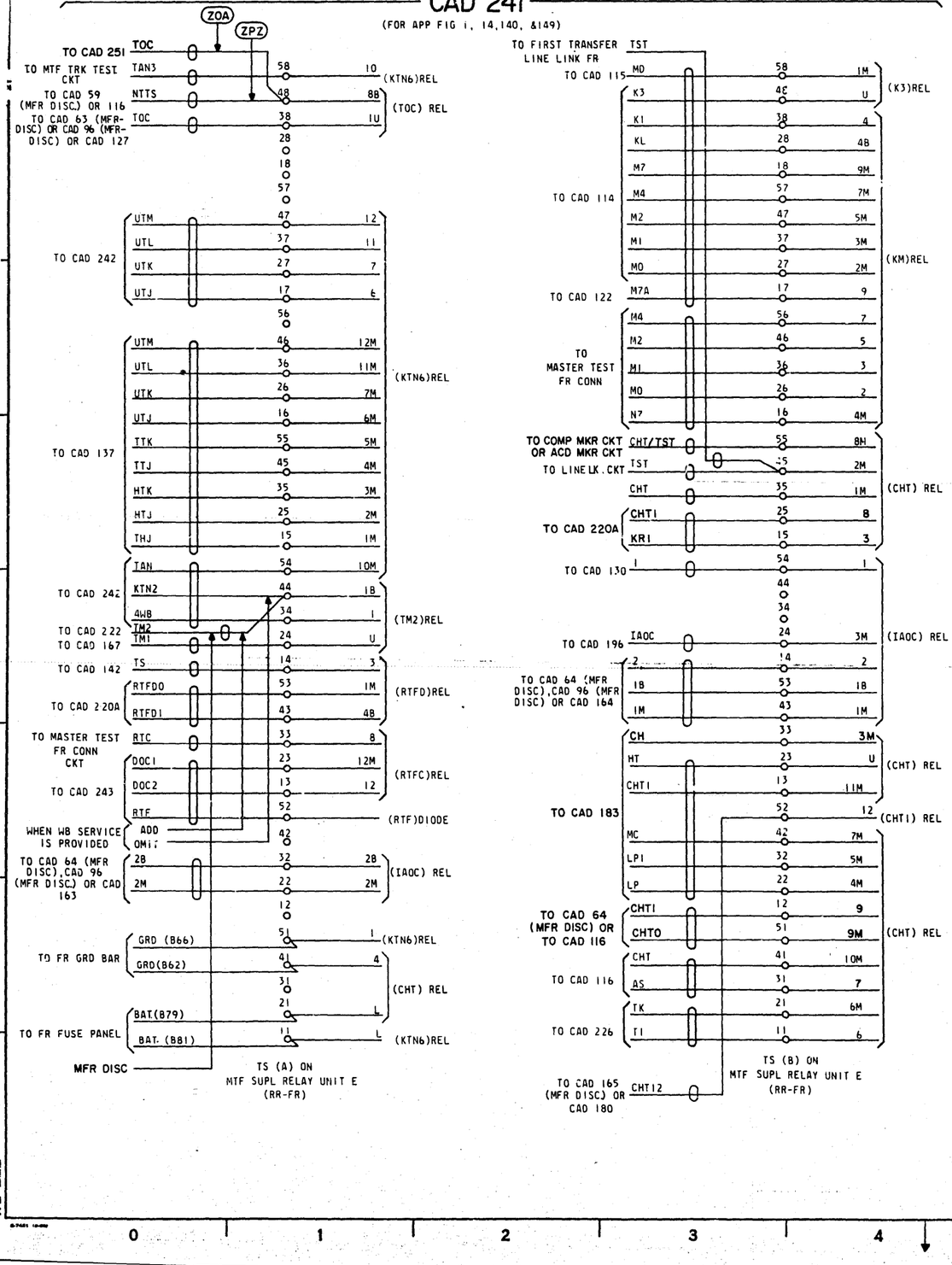
78

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G88

BELL TELEPHONE LABORATORIES INCORPORATED 6S

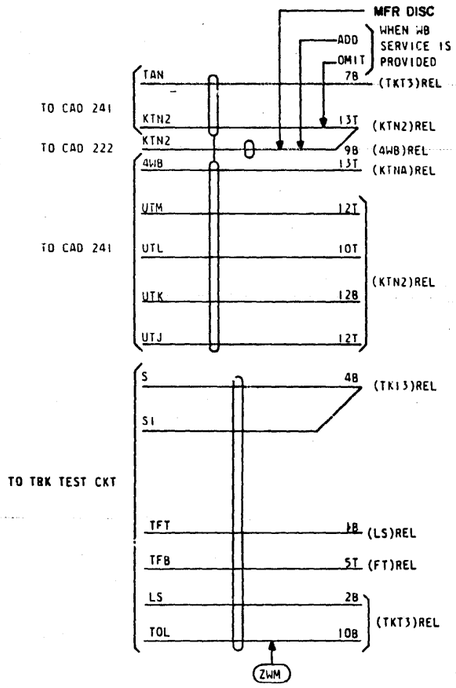
CAD 241

(FOR APP FIG 1, 14,140, &149)



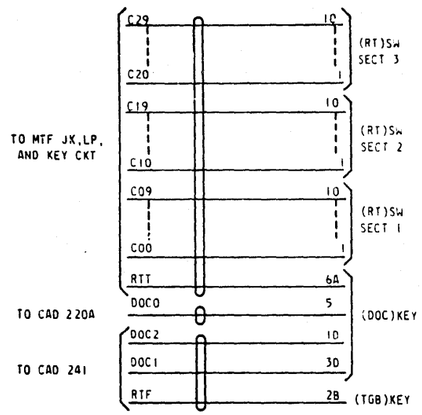
CAD 242

(FOR APP FIG 49)



CAD 243

(FOR APP FIG 140)



ISSUE
78D
79A
83A

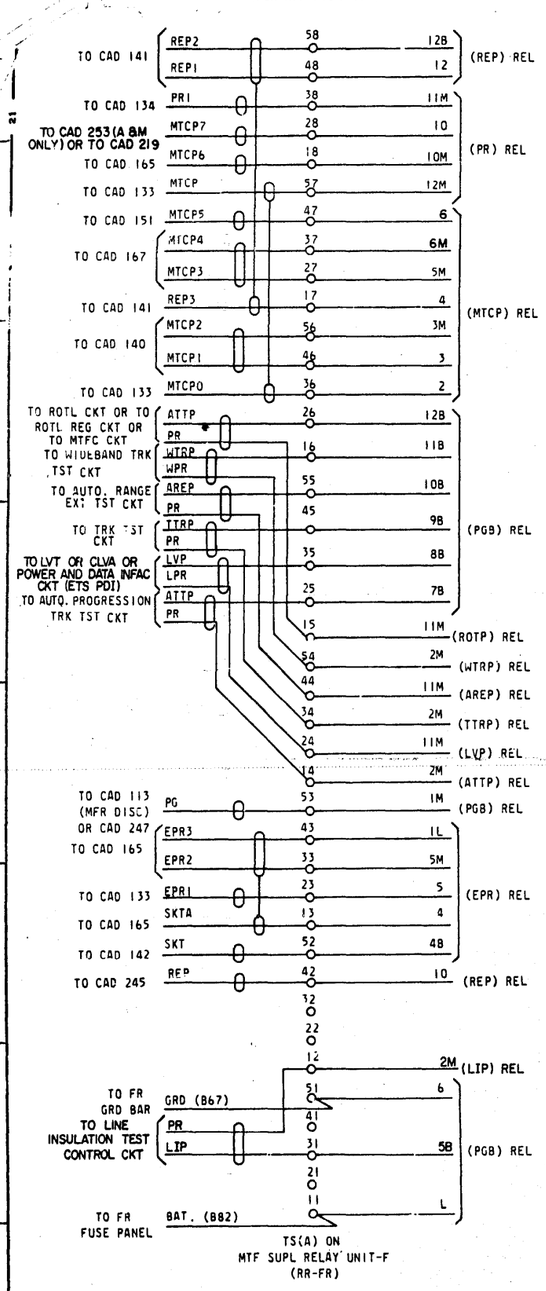
ISSUE 103A

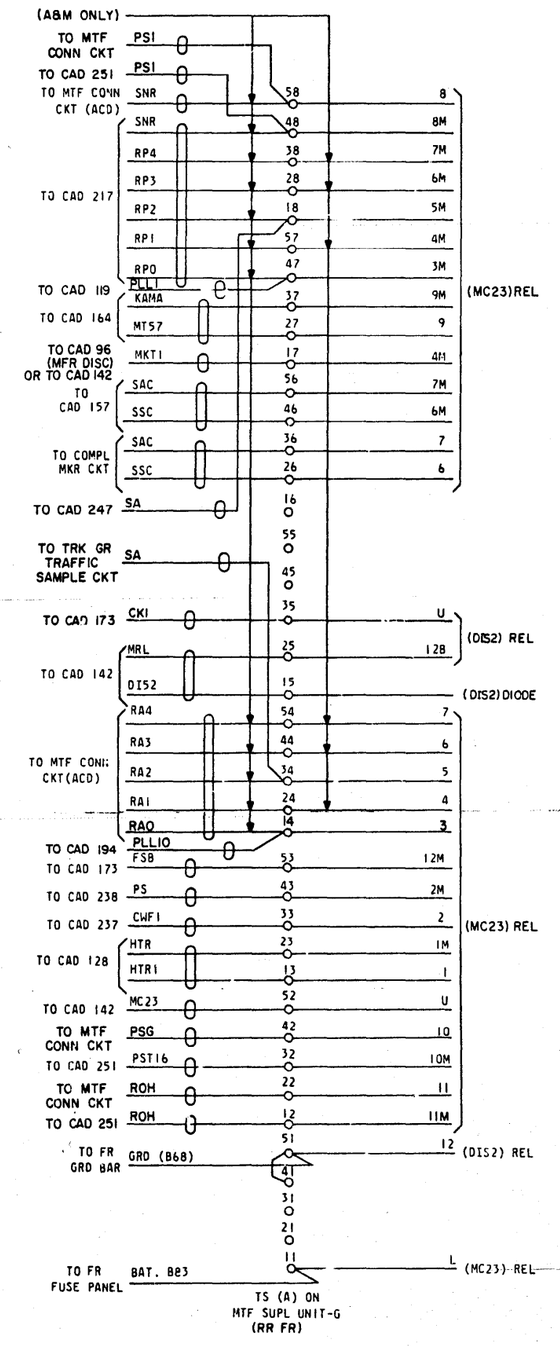
MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G89

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CAD 244

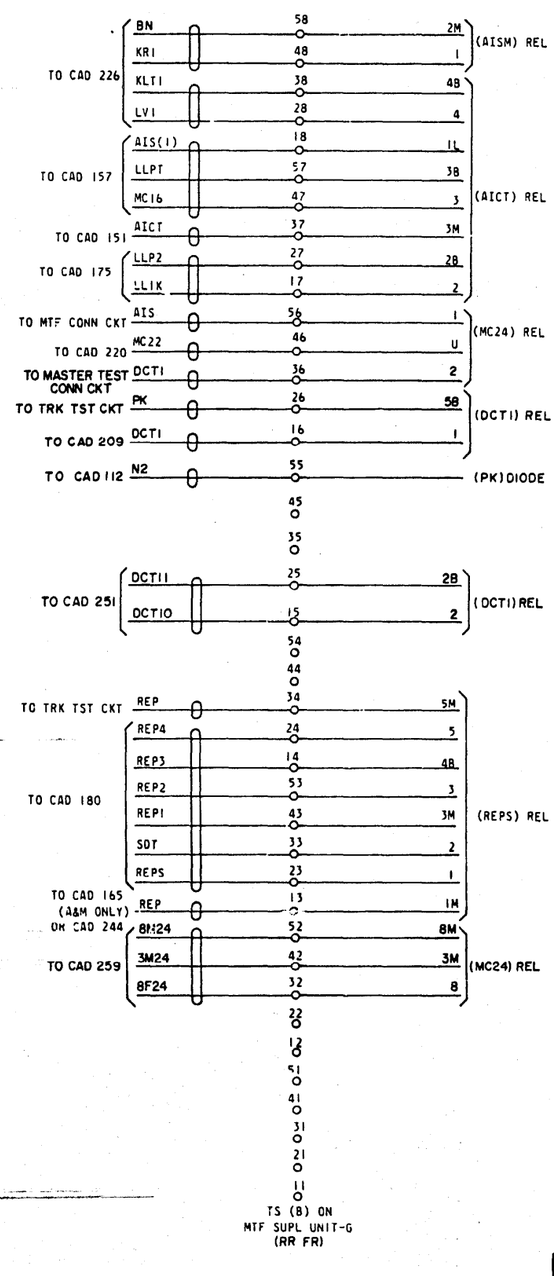
(FOR APP FIG. 154)





CAD 245

(FOR APP FIG 183)



DRAWING ISSUE
800
82D

ISSUE
106B

MASTER TEST CONTROL CIRCUIT

2

SD-25800-01-G90

BELL TELEPHONE LABORATORIES INCORPORATED

6S

CAD 246 (MFR DISC)

(FOR APP FIG 135)

DRAWING ISSUE 82D

WFBK	24	2	(WFBK) REL		
BCNK	23	11M	(BCNK) REL		
BST	22		(BST) LP		
LSS	21	1M	(LSS) REL		
	20				
LSKO	19		(LSK) RES		
TO CAD 221 BSCT	18	U	(BSMT) REL		
WHCA	17	1M	(WHCA) REL		
WBT	16	7	(WBT) REL		
WTG	15	7M			
DF	14	9M	(BSMT) REL		
WFO	13	12	(WFAK) REL		
BS	12	1	(BSC) REL		
UTP1	11	6M	(KTN8A) REL		
UTP	10	6M	(KTN8) REL		
TTR1	09	7M	(KTN8A) REL		
TTR	08	7M	(KTN8) REL		
TTP1	07	8M	(KTN8A) REL		
TO CAD 104 (MFR DISC) OR TO CAD 134 TTP	06	8M	(KTN8) REL		
THO1	05	11M	(KTN8A) REL		
THO	04	11M	(KTN8) REL		
HTR1	03	9M	(KTN8A) REL		
HTR	02	9M	(KTN8) REL		
HTP1	01	10M	(KTN8A) REL		
HTP	00	10M	(KTN8) REL		

TS (A-C) ON WIDEBAND/BIT-STREAM TEST CONTROL UNIT ON RELAY RACK

TO CAD 104 (MFR DISC) OR TO CAD 134 UTR1	54	5M	(KTN8A) REL		
UTR	53	5M	(KTN8) REL		
TO TRK TEST CKT ON MASTER TEST FR CONT BAY BST	52	1M			
TO CAD 142 MC4	51	11B			
	50				
TO CAD 209 NTC	49	11M			
TO CAD 248 NTC1	48	11			
TO CAD 173 FTK	47	7M			
FUK	46	5M			
KVG4	45	10M			
KFU	44	9M			
KTBS	43	8B	(BSNT) REL		
VGT1	42	4B			
KVG3	41	4M			
TO CAD 248 KHGA	40	8			
KHG	39	3M			
VER2	38	4			
VER1	37	3			
HG	36	1B			
BSC3	35	1	(WBNT) REL		
TO CAD 221 BSC2	34	6	(BSNT) REL		
BSC1	33	8M	(WB) REL		
BSCO	32	U	(KTN7) REL		

SHOWN ON 2-WIRE LINE, LINE LINK & MKR CONN CKT (BSOTL) — S — S — S(1) — 31 — 9M (BSTX) REL

HMDF

30

LSK1	29	1	(LSS) REL		
CCK1	28	11	(BCNK) REL		
WFCK	27	11	(BSMT) REL		
DF1	26	9			
BCN	25	7			

TO MASTER TEST CONNECTOR OR TO WIDEBAND/BIT-STREAM AUXILIARY MASTER TEST CONNECTOR UNIT ON RELAY RACK (A&M ONLY)

TS (A-C) ON WIDEBAND/BIT-STREAM TEST CONTROL UNIT ON RELAY RACK

	82				109
	81				108
	80				107
	79				106
	78				105
	77				104
	76				103
	75				102
	74				101
	73				100
	72				99
	71				98
	70				97
	69				96
	68				95
	67				94
	66				93
	65				92
	64				91
	63				90
	62				89
	61				88
	60				87
	59				86
	58				85
	57				84
	56				83
	55				

TS (A-C) ON WIDEBAND/BIT-STREAM TEST CONTROL UNIT ON RELAY RACK

TS (A-C) ON WIDEBAND/BIT-STREAM TEST CONTROL UNIT ON RELAY RACK

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)		SD-25800-01-G91
BELL TELEPHONE LABORATORIES INCORPORATED	SIZE 6S	

CAD 247

(FOR APP FIG 1,11,14,17,25,49,77,105,122,123,131,138)

OMIT WHEN AUTOMATIC PROGRESSION TRUNK TEST CKT AND/OR LINE VERIFICATION TEST CKT IS PROVIDED

LC

TO CAD 108 MT7K — 30
29 — 7T
TO CAD 220A MT7K — 28 — 8T — (TSI3) REL
TO MASTER TEST FR JK, LP AND KEY CKT ON — 27 — 1C — (TGTS) KEY
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
09
08
07
06
05
04
03
02
01
00

TS (CONT HA) ON CONTROL BAY

TO CAD 207 RV — 59 — (RV) LP
TO CAD 220A PR — 58 — (PR8) LP
TO CAD 245 SA — 57 — 11 — (TSST) REL
P — 56 — 10M
GRD — 55 — 2C (TGTS) KEY
LT1 — 54 — 1B (TSST) REL
HM — 53 — 12 (TSH) SW
LT — 52 — (LCT) LP

TO TRUNK GROUP TRAFFIC SAMPLE FR

V9 — 51 — 10
V8 — 50 — 9
V7 — 49 — 8
V6 — 48 — 7
V5 — 47 — 6
V4 — 46 — 5
V3 — 45 — 4
V2 — 44 — 3
V1 — 43 — 2
V0 — 42 — 1 — (TSH) SW

L9 — 41 — 10
L8 — 40 — 9
L7 — 39 — 8
L6 — 38 — 7
L5 — 37 — 6
L4 — 36 — 5
L3 — 35 — 4
L2 — 34 — 3
L1 — 33 — 2
L0 — 32 — 1 — (TSS) SW

TO CAD 244 PG — 31 — (PG) LP

TS (CONT HA) ON CONTROL BAY

TO MASTER TEST FR REGISTER AND SENDER TEST BAY

X11 — 90 — 7
LT3 — 89 — 5
LT2 — 88 — 4 — SECT. 1 (TRNA) SW
LT1 — 87 — 3
SPL2 — 86
SPL1 — 85 — (SPL) KEY
SPL — 84
ICT — 83 — 10
CX1 — 82 — 6 — SECT. 5 (ICL) SW
NICL — 81 — 12
ICL — 80 — 11 — SECT. 1 (ICL) SW
INC — 79 — 7
NCL — 78 — 12
CL — 77 — 11
TCA — 76 — 10
TCB — 75 — 9 — SECT. 1 (CL) SW
FAC-MF — 74 — 4
FAC-DP — 73 — 3
OR-MF — 72 — 2
OR-DP — 71 — 1

TCL10 — 70 — 11
TCL9 — 69 — 10
TCL8 — 68 — 9
TCL7 — 67 — 8
TCL6 — 66 — 7
TCL5 — 65 — 6
TCL4 — 64 — 5 — SECT. 1 (TCL) SW
TCL3 — 63 — 4
TCL2 — 62 — 3
TCL1 — 61 — 2
TCL0 — 60 — 1

TS (CONT HA) ON CONTROL BAY

TO AUTOMATIC PROGRESSION TRUNK TEST FR — SAT, TRSI

TO TRK GP TFFC SAMPLE FR — MTF — 119 — 1M (TSST) REL

TO TRUNK GROUP TRAFFIC SAMPLE MARKER UNIT ON RELAY RACK FR — MT6K, MT5K, SAT
118 — 2B (TSST) REL
117 — (TSI1) REL OR (1NH) KEY
116

TO COMPLETING MARKER (CE FR) — TS1, TS2
115 — (TSCT) REL
114 — (TSI3) OR (TSCT) REL

TO MASTER TEST CONNECTOR FR — RV1
113 — 12B
TO CAD 207 — RV1
112 — 11B — (TSI3) REL

MFR DISC
TO CAD 220 — KR3, KR2
111 — 11B (KR) REL
110 — 5B (MFC) REL

TO AUTOMATIC RANGE EXTENSION TEST FR — ARET
109 — (ARET) LP

TO CAD 221 — T4(1), T(4), R4(1), R(4)
108 — 3T
107 — 6T — (NTC1) REL

TRSI
106 — 3B (TSST) REL

TO TRUNK GROUP TRAFFIC SAMPLE MARKER UNIT ON RELAY RACK FR — NRD, RCD, TRS
105 — (TSI3) OR (NRD) REL
104 — (TSI3) OR (RCD) REL
103 — 3M (TSST) REL

MFR DISC
TO 1ST COMPLETING MARKER (CE FR) — TS
102 — 3D (RDT) KEY

TO CAD 220 — TSST, SAT
101 — 5 (TSST) REL
100

MFR DISC
TO CAD 214 — RDR, RDX, KR, REC
99 — (RDR) LP
98 — (RDX) LP
97 — 8T (KR) REL
96 — 6C (REC) KEY

TO MASTER TEST FR AUTOMATIC MONITOR BAY — 11
95 — 8 SECT. 1 (TRNA) SW

TO MASTER TEST FR REGISTEN AND SENDER TEST BAY — NT, THC, PHC, TRN
94 — 12
93 — 4
92 — 3 — SECT. 1 (TRNC) SW
91 — 11 — SECT. 1 (TRNA) SW

TS (CONT HA) ON CONTROL BAY

DRAWING ISSUE: 82D, 83A

ISSUE 102B

MASTER TEST CONTROL CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

2

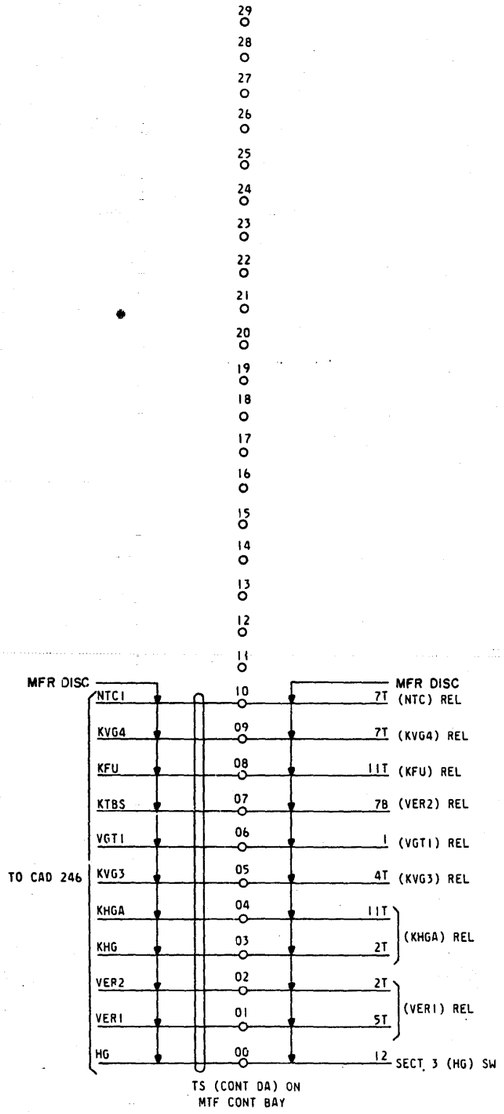
SD-25800-01-G92

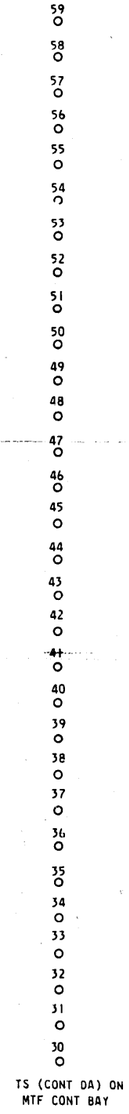
6S

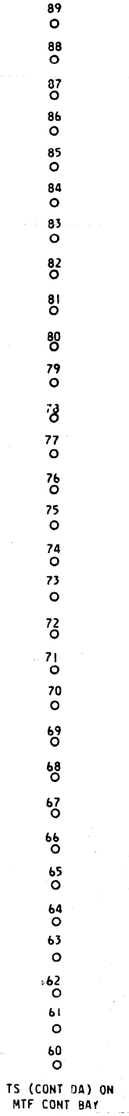
SD-25800-01-G92

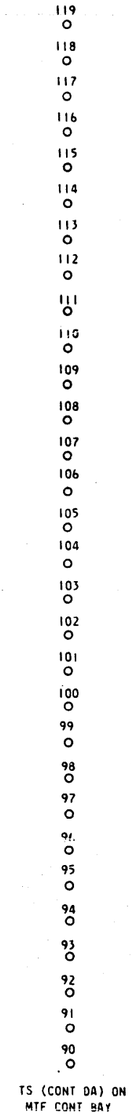
CAD 248

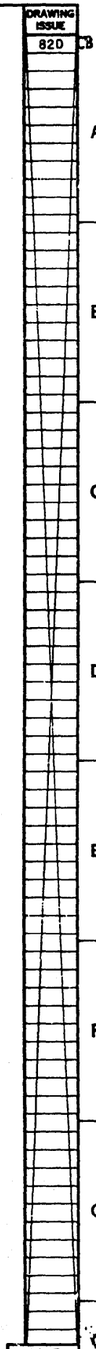
(FOR APP FIG 687)











MASTER TEST CONTROL CIRCUIT (2)		SD-25800-01-693
BELL TELEPHONE LABORATORIES INCORPORATED	FSC 65	

CAD 249

(FOR APP FIG 1,2,41,45,49,93,N)

DRAWING ISSUE 82D

TO MASTER TEST FR REGISTER AND SENDER TEST BAY — KR — 29 — 6T (SDT) REL

28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11

KCN — 10 — (KACN) REL

09

X2 — 08 — (CRX) SW SECT. 2

X1 — 07 — (CRX) SW SECT. 1

NA1 — 06 — (CRX) SW SECT. 3

TO MASTER TEST FR AUTOMATIC MONITOR BAY

KH7 — 05 — (KACN) REL

KR7 — 04

KR4 — 03 — (CRX) SW SECT. 2

KR2 — 02

KR1 — 01

KR0 — 00 — (CRX) SW SECT. 1

TS (CONT BA) ON CONTROL BAY

59 58 57 56 55 54 53 — SHOWN ON SD-25680-01 & SD-25988-01

52 51 50 49 48 47 46 45 44 43 42 41

MFR DISC

40

TO CAD 272 — KR2 — 39 — 6T (KR) REL

STT — 38 — 6T (4WD) REL

TO MASTER TEST FR AUTOMATIC MONITOR BAY

37

M — 36 — 7B (DT) REL

35 34 33 32 31 30

TS (CONT BA) ON CONTROL BAY

89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60

TS (CONT BA) ON CONTROL BAY

119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 — SHOWN ON SD-25680-0 - 8 SD-25988-01

100 99 98 97 96 95 94 93 92 91 90

TS (CONT BA) ON CONTROL BAY

ISSUE 102B

MASTER TEST CONTROL CIRCUIT (2)

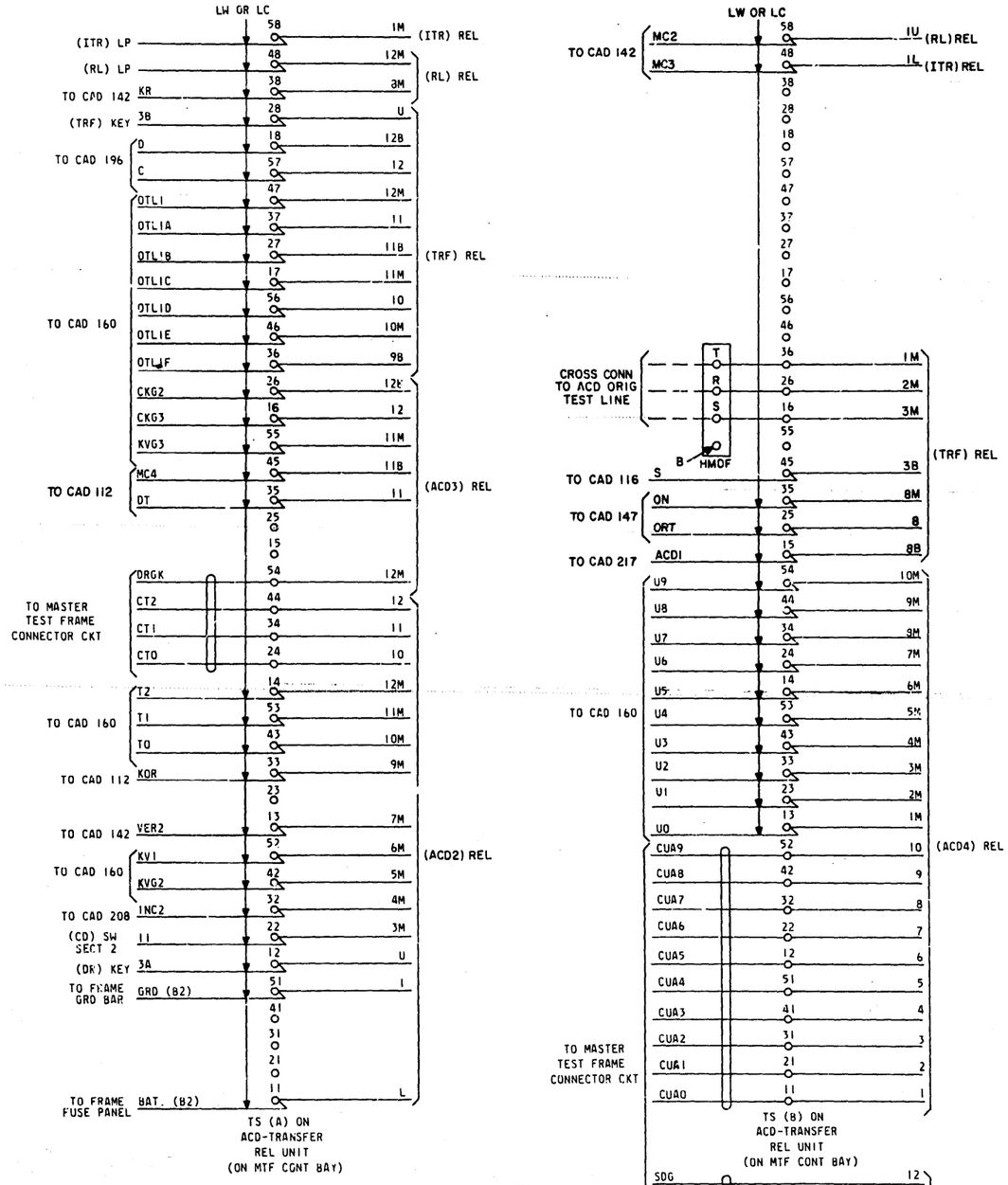
SD-25800-01-694

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S

SD-25800-01-694

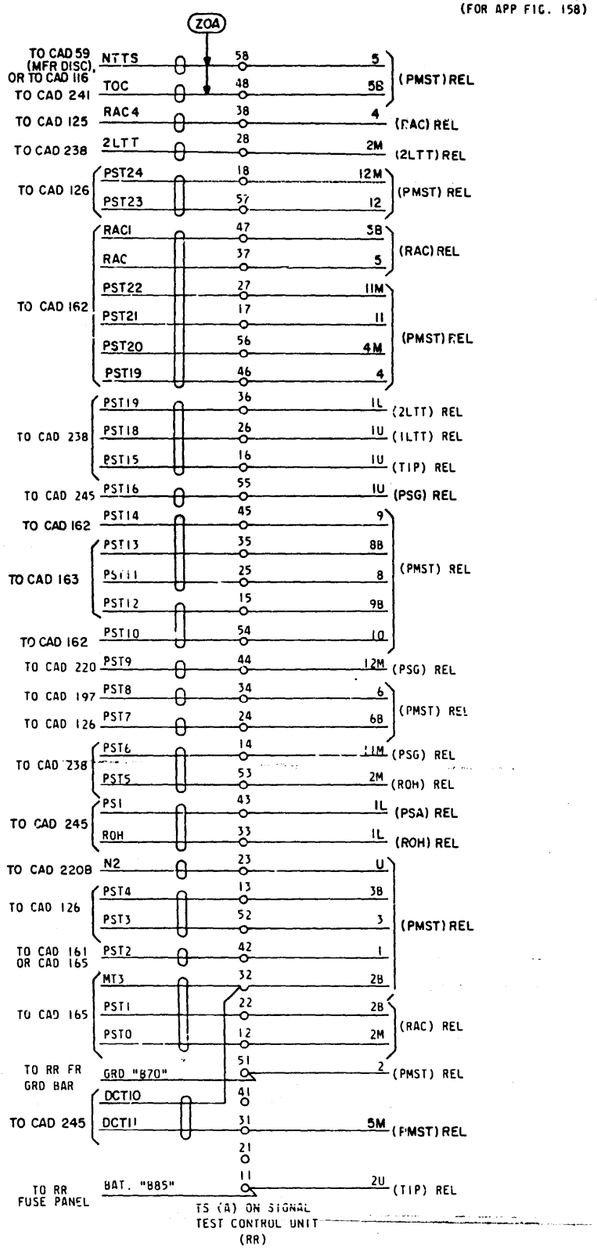
CAD 250 (A & M ONLY)

(FOR APP FIG. 156)



CAD 251

(FOR APP FIG. 158)



ISSUE 103A

MASTER TEST CONTROL CIRCUIT

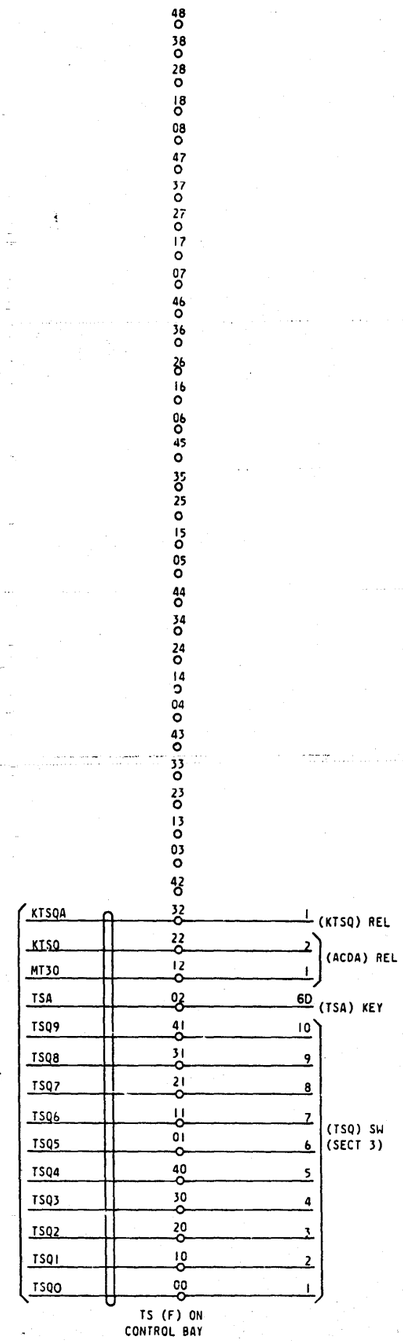
SD-25800-01-G95

BELL TELEPHONE LABORATORIES INCORPORATED

6S

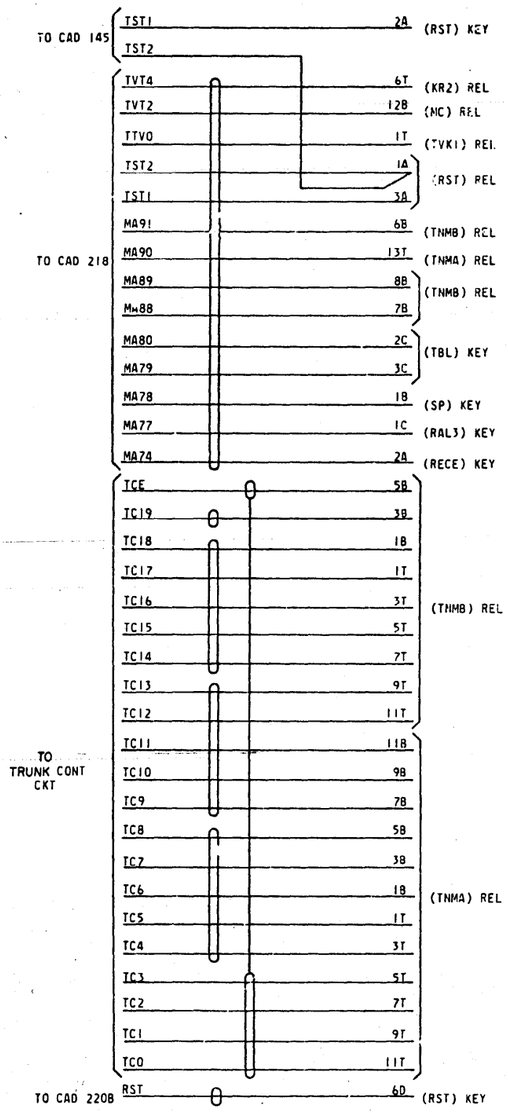
CAD 252 (A & M ONLY)

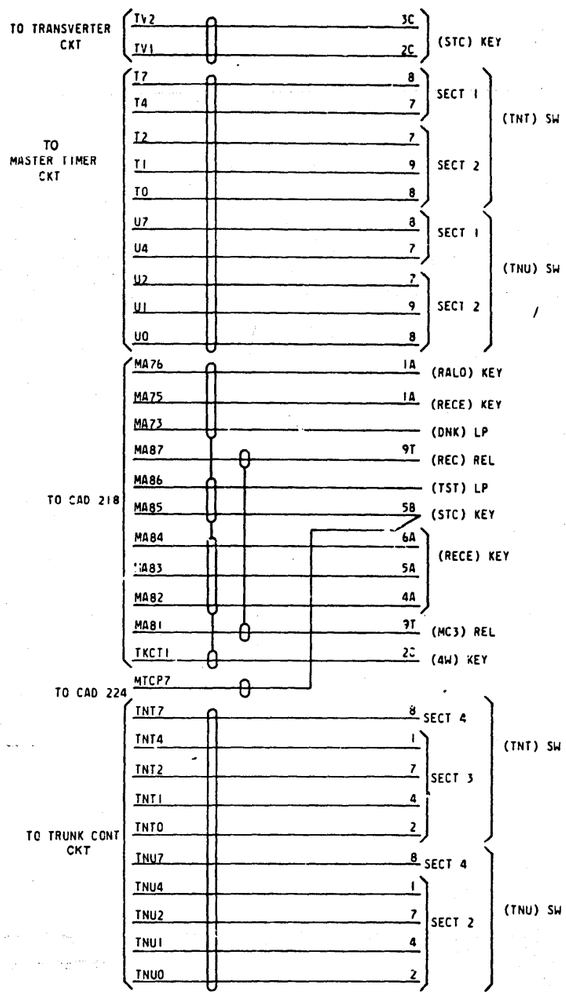
(FIG. 160)



PART OF CAD 253 (A & M ONLY)

(FOR APP FIG. 20,29,128 & 161)





ISSUE 89A

MASTER TEST CONTROL CIRCUIT (2) SD-25800-01-G96

BELL TELEPHONE LABORATORIES INCORPORATED 65

SD-25800-01-G96

PART OF CAD 253 (A a M ONLY)

(FOR APP FIG. 20,29,128,161)

BAK3	3A	(NBA) KEY
BAK2	1A	
BAK1	6B	(SP) KEY
CB2	2B	(RCH2) KEY
CB1	2A	(RCH1) KEY
CB0	5B	(RCH2) KEY
STC	4B	(STC) KEY
LCP	3D	(RECE) KEY
TR26	6B	(TR2) KEY
TR24	4B	
MA72	1B	(TV3) REL
MA71	2D	(RALO) KEY
MA70	12T	(MFC1) REL
MA69	3D	(ANSE) KEY
MA68	6B	(DISE) KEY
MA67		(MA) LP
MA66	5A	(ANSE) KEY
MA65	2A	
MA64		(TTC) LP
MA63	6A	(ANSE) KEY
MA62	3B	(DISE) KEY
MA61		(DISC) LP
MA57	1A	(ANSE) KEY
MA56	2D	(RST) KEY
MA55	5C	(RCH2) KEY
MA54	6C	(CHS) KEY
TVT5	4D	(DR) KEY
TVT4	6T	(KR2) REL
TVT2	12B	(MC) REL
TVT1	3D	(TRO) KEY
TVT0	6A	(TOF) KEY
TCTR		(TCTR) LP

TO CAD 218

MA36		(CTR) LP
MA35	6A	(DR) KEY
MA34		(CS) LP
MA33	3A	(DR) KEY
MA32	1	(MRL) REL
MA30		(BAK) LP
MA27	1A	(XFC) KEY
MA26		(AEC) LP
MA25		(DEC) LP
MA24	6D	(RECE) KEY
MA23		(IEC) LP
MA22	4A	(ANSE) KEY
MA21	3C	(RAL1) KEY
MA20	1B	
MA19	2A	(RALO) KEY
MA18	3D	(RAL2) KEY
MA17	1A	
MA16	3C	(RAL3) KEY
MA15	2A	(XTC) KEY
MA14		(TCTK) LP
MA13	1C	(STC) KEY
MA12	2A	(TCNT) LP
MA11	2D	
MA10	1B	(STC) KEY
MA9	3A	(RECE) KEY
MA7	10B	(LV7) REL
MA6	5D	(DR) KEY
MA5	1D	(RST) KEY
MA4		(NRST) LP
MA3		(RST) LP
MA2	4D	(RECE) KEY
MA1		(RTBL) LP
MA0		(LCP) LP

TO CAD 218

TO RECORDER & RECORDER CONTROL CKT

BA	1C	(NBA) KEY
RCH2	3C	(RCH2) KEY
RCH1	3D	(RCH1) KEY
RCH0	1D	
TP2	6C	(RCH2) KEY
TP1	6D	(RCH1) KEY
TP0	4D	
TVT	1C	(SP) KEY
SPST	3C	
SP	3B	

TO TRUNK CONTROL CKT

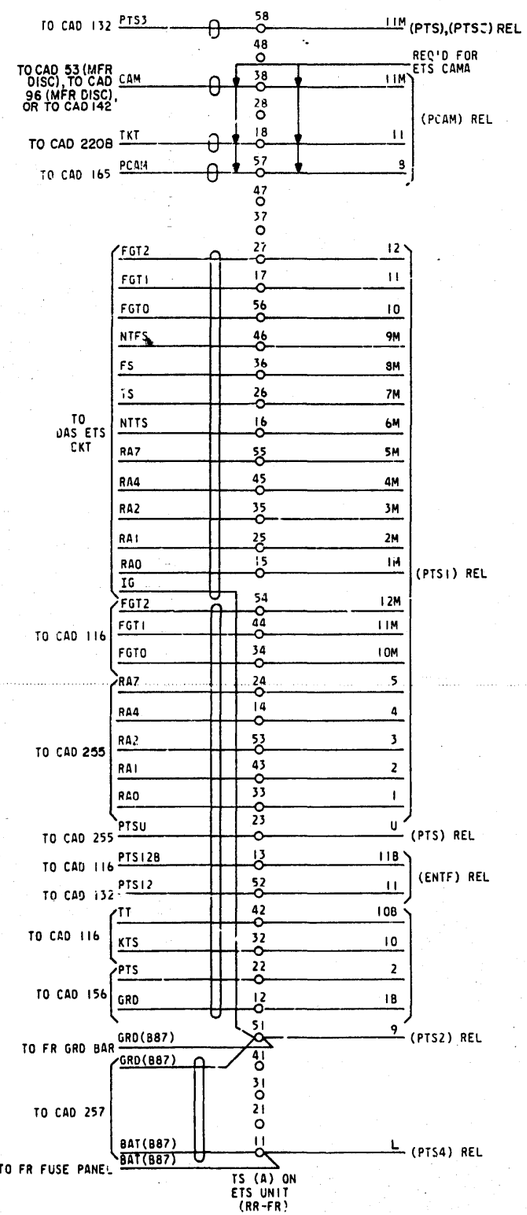
TC	2D	(TKK) KEY
TTC	3A	(XTC) KEY
TR19	1D	SECT.3
TR10	1	
TR9	1D	SECT.4
TR0	1	
TRE	11	
MA53	1B	(RCH2) KEY
MA52	1D	(TKK) KEY
MA51	2B	(KR1) REL
MA50		(CTV) LP
MA49		(DRST) LP
MA48	3D	(TKK) KEY
MA47	2D	(DR) KEY
MA46	5C	(STC) KEY
MA45		(CBY) LP
MA44	3C	(CHS) KEY
MA43	5B	(DISE) KEY
MA42	2B	
MA41	4A	(DR) KEY
MA40	6D	(ANSE) KEY
MA39	3D	(RALO) KEY

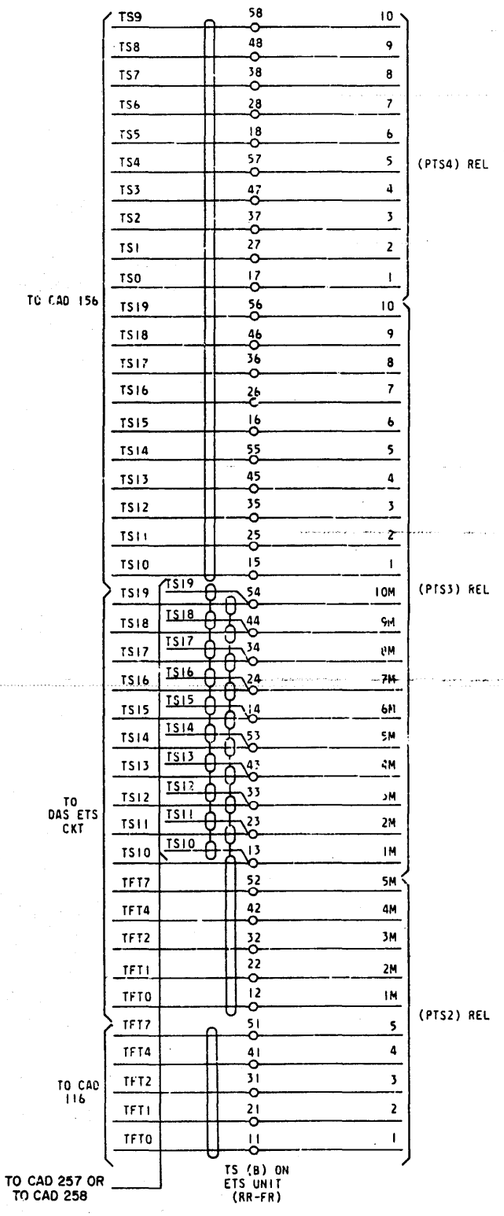
(TCU) SW

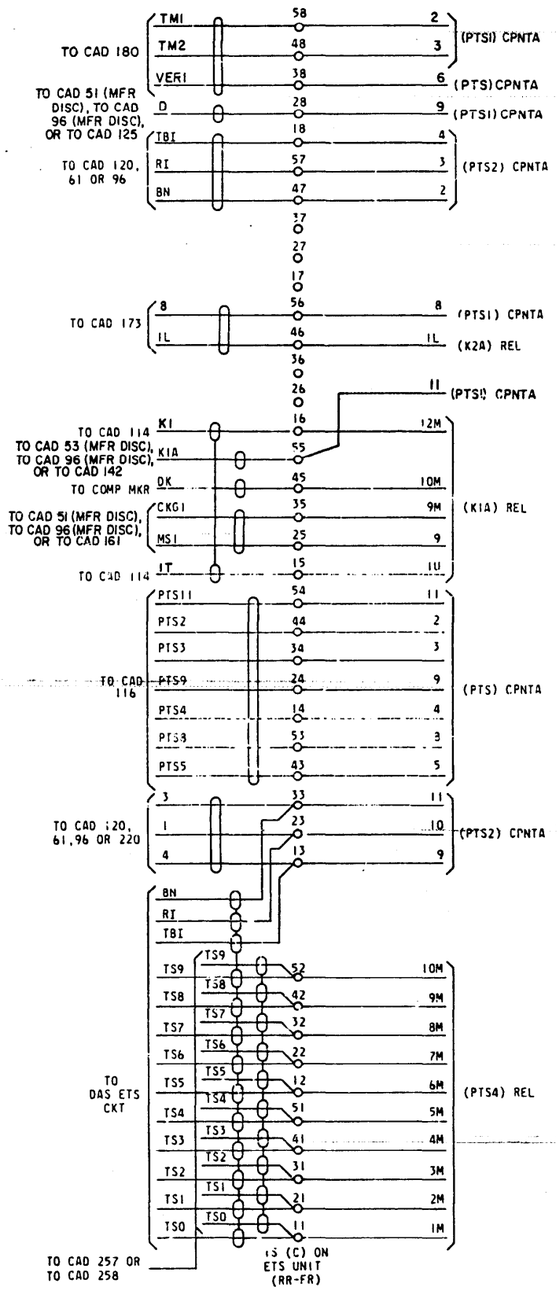
ISSUE	89A
MASTER TEST CONTROL CIRCUIT	②
BELL TELEPHONE LABORATORIES INCORPORATED	SD-25800-01-697
DWG SIZE	6S

CAD 254

(FOR APP FIG. 167)

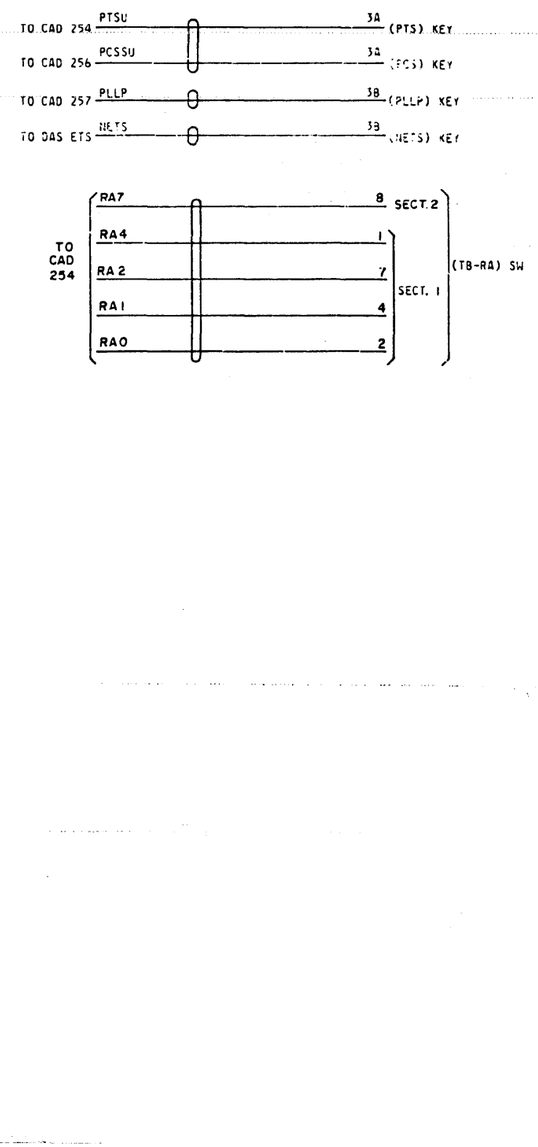






CAD 255

(FOR APP FIG. 166,169)



ISSUE 107A

MASTER TEST CONTROL CIRCUIT

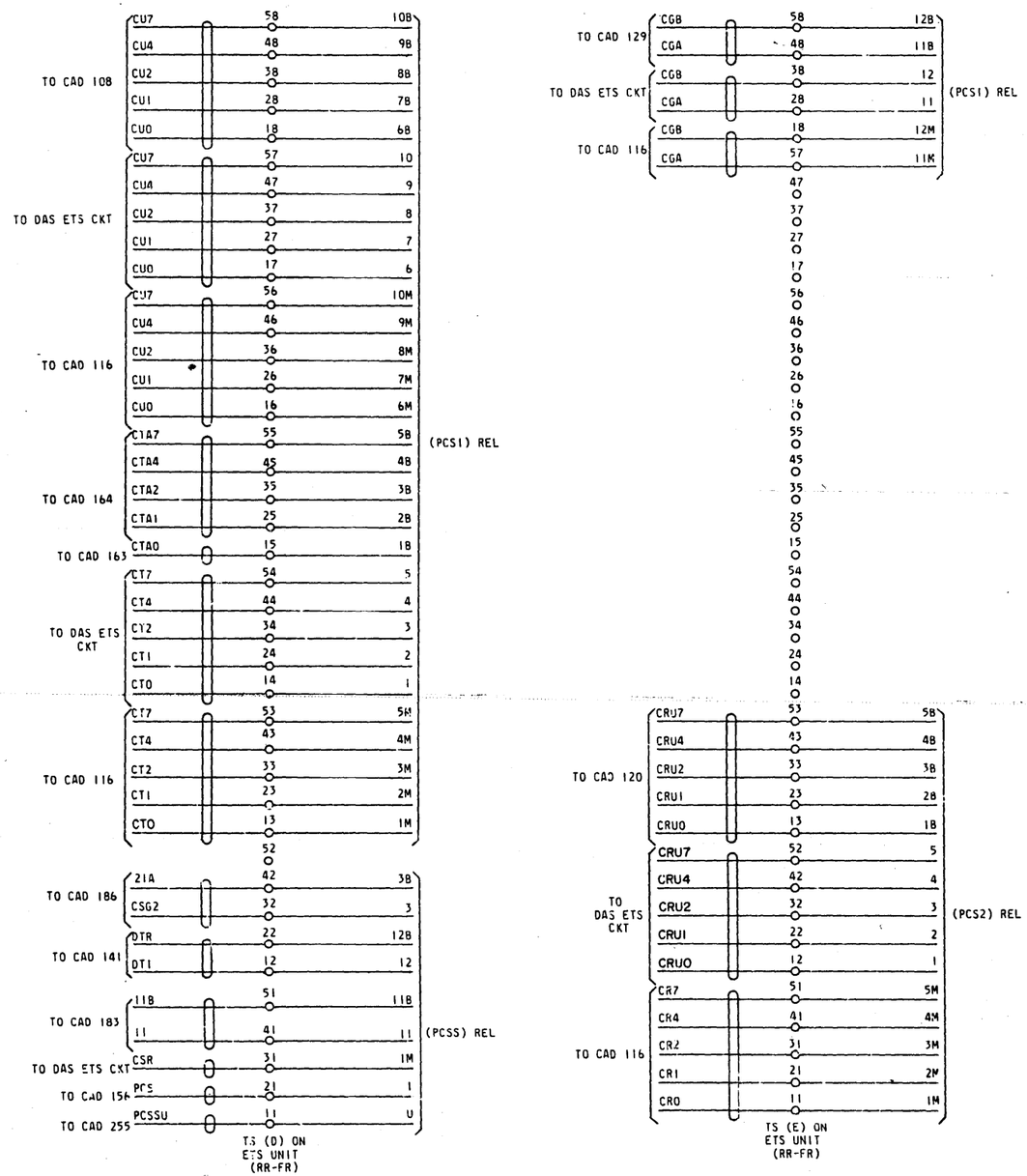
SD-25800-01-G98

BELL TELEPHONE LABORATORIES INCORPORATED

6S

CAD 256

(FOR APP FIG. 168)



ISSUE 103A

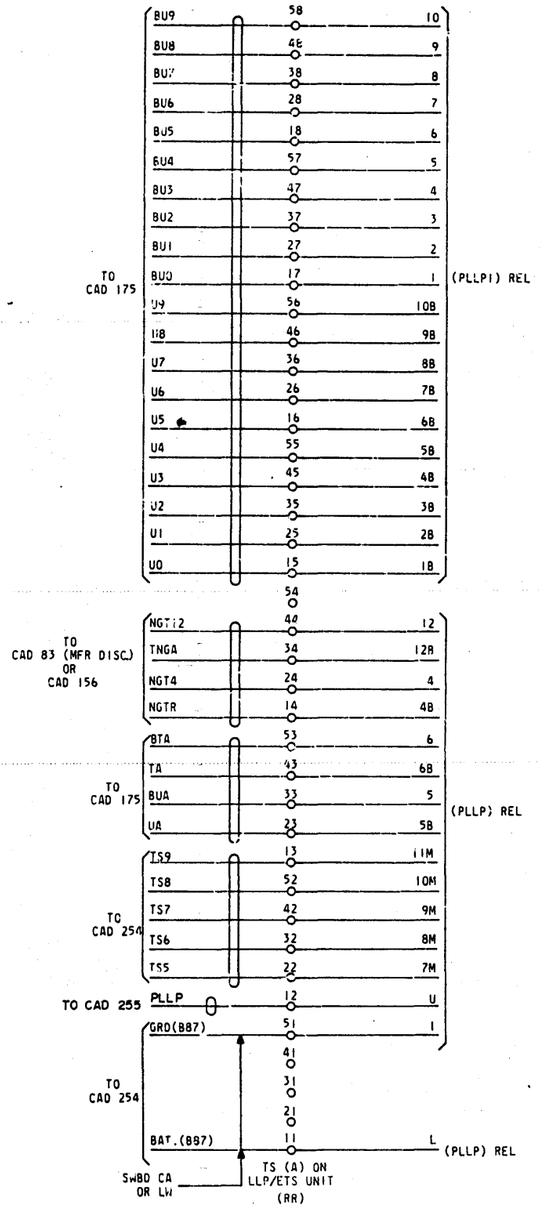
MASTER TEST CONTROL CIRCUIT

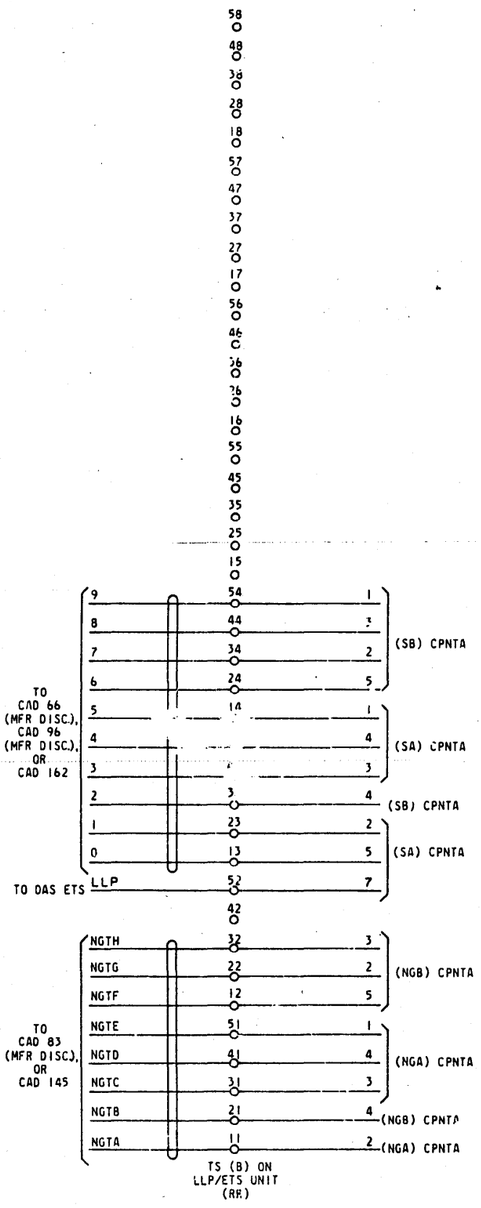
SD-25800-01-G99

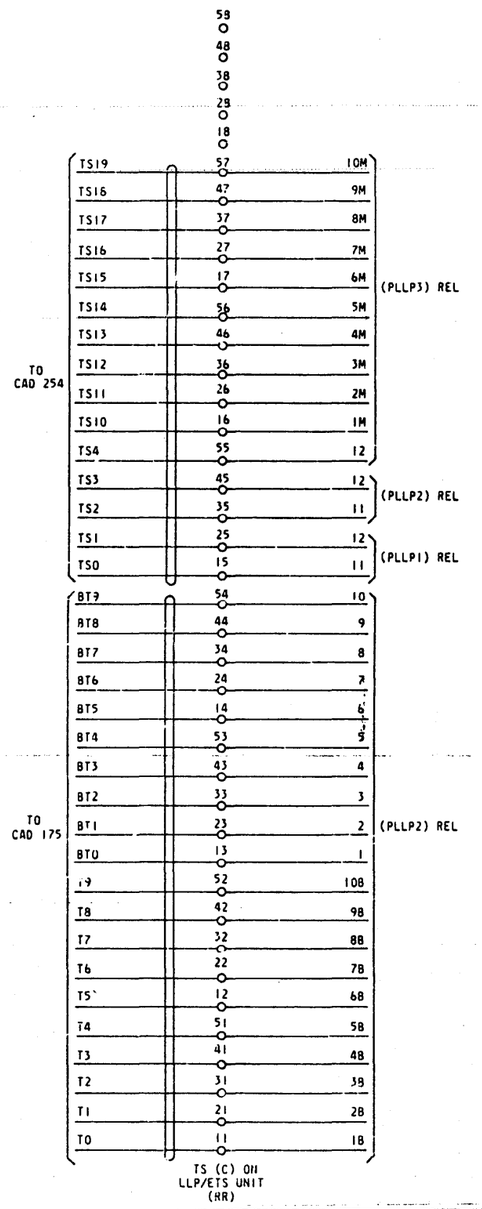
BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

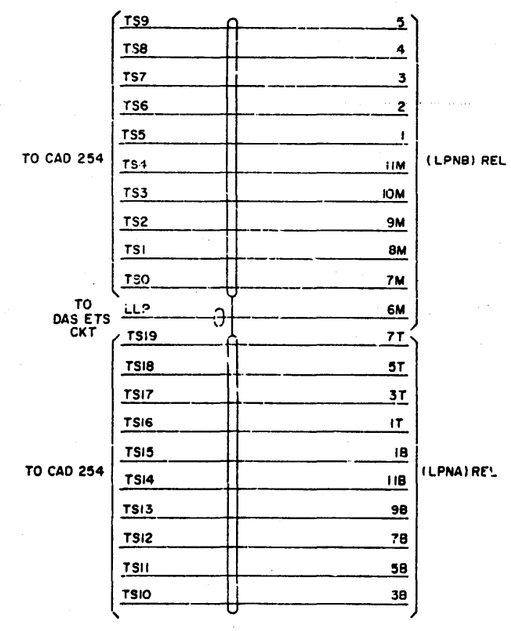
CAD 257
(FOR APP FIG. 173)



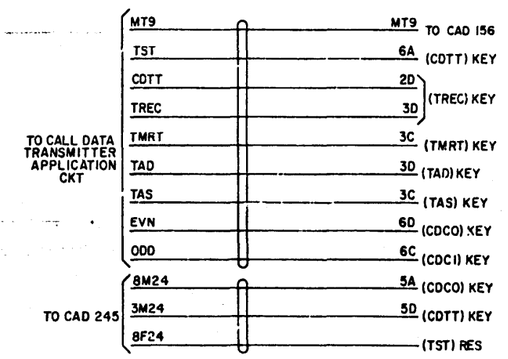




CAD 258
(FOR APP FIG 178)



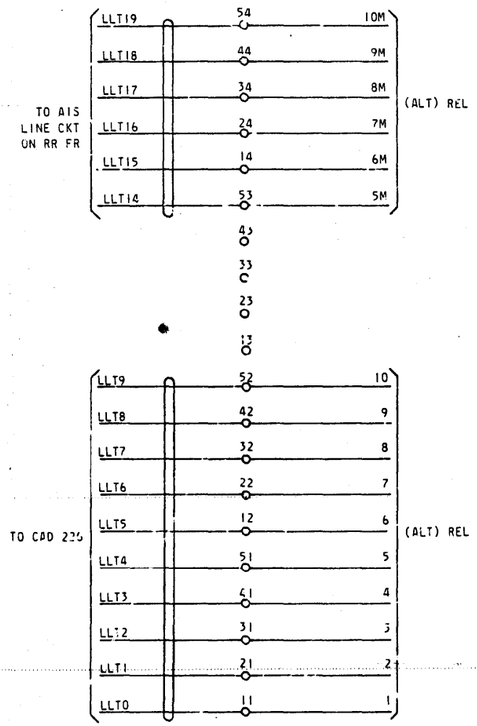
CAD 259
(FOR APP FIG 179)

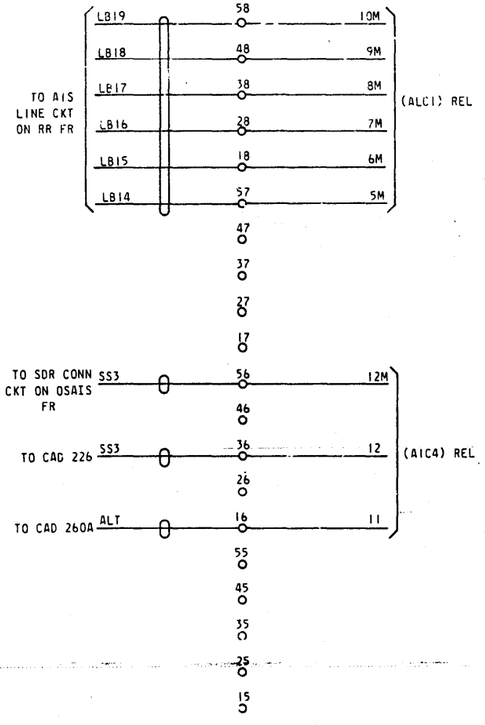


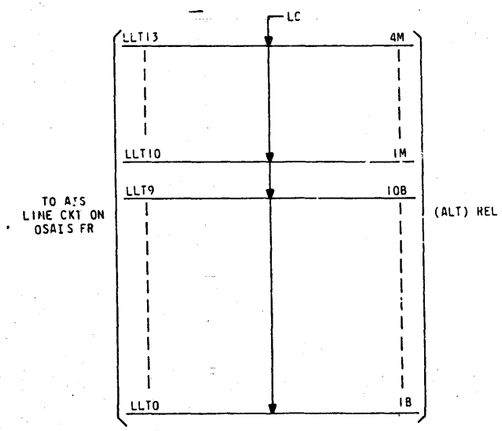
MASTER TEST CONTROL CIRCUIT		
	DWG SIZE 6S	ISSUE 107A
BELL LABORATORIES	SD-25800-01-	G100

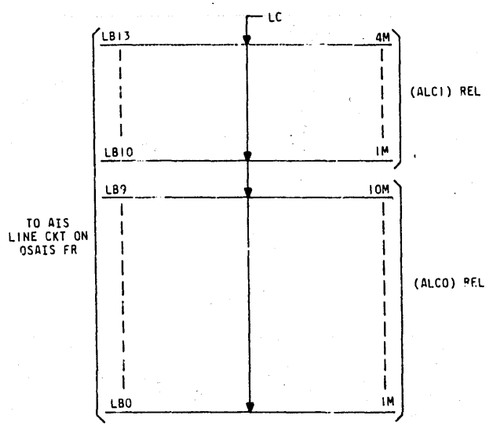
CAD 260 (A&M ONLY)

(APP FIG 180)

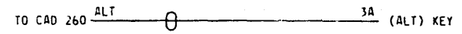








CAD 260A (A&M ONLY)



MASTER TEST CONTROL CIRCUIT		DWG SIZE 6S	ISSUE 106B
BELL LABORATORIES	SD-25800-01-		G101