

CIRCUIT NOTES:

101.	DESIG	FUSE	POTENTIAL	ONE PER
		1-1/3	48V SIG	20 FIG. 1
BATTERY SYMBOL		VOLTAGE RANGE		
		44-52V		

FEATURE OR OPTION		FIG.	APP OR WIRING	QUANTITY	PROVIDE
STATION LINE CKT WITHOUT LINE ACCESS TOUCH-TONE CALLING	NOT RESTRICTED SEE NOTE 103	1	H, Y, Z	1	ONE PER MAIN STATION
	INDIVIDUAL OR RING. PARTY OF 2 PARTY LINE	5	Y, Z	5	
	TIP PARTY OF 2 PARTY LINE	1	H, W, Y	1	
RESTRICTED	INDIVIDUAL OR RING. PARTY OF 2 PARTY LINE	1	H, X, Y, Z	1	ONE PER MAIN STATION
	TIP PARTY OF 2 PARTY LINE	5	X, Y, Z	5	
	TIP PARTY OF 2 PARTY LINE	1	H, W, X, Y	1	
MULTIPLE JACK FOR USE WHEN ATTENDANTS SWITCHBOARD IS	552A, 552D, OR 605A PBX	2		2	AS REQD
	607A OR 607B PBX	3		3	
	608A PBX	4		4	
	MSG WAITING SERVICE SEE NOTE 106 & 107	REQD	V		
WHEN THIS CKT CONNECTS TO	AUX OR MON & TEST LINE CKT GRP ALERTING		S		
	OTHERWISE		R		
MESSAGE REGISTER SERVICE INDIVIDUAL PARTY			Q		
LINE FINDER SUBGROUP ARRANGED FOR	20 LINES		N		
	10 LINES		M		
STATION LINE CKT	ASSOCIATED WITH DIRECT STATION SELECTION CKT		J		
	NOT ASSOCIATED WITH DIRECT STATION SELECTION CKT		K		
LINE ACCESS TOUCH-TONE CALLING SEE NOTE 107			G, T		ONE PER MAIN STATION
AUTOMATIC NUMBER IDENTIFICATION REQUIRED			F		

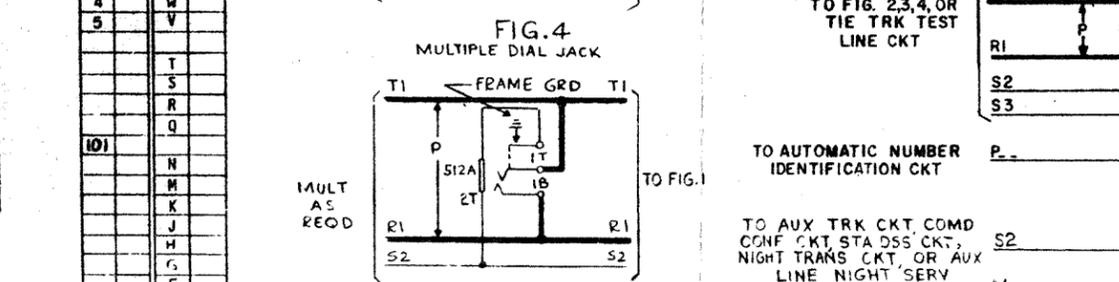
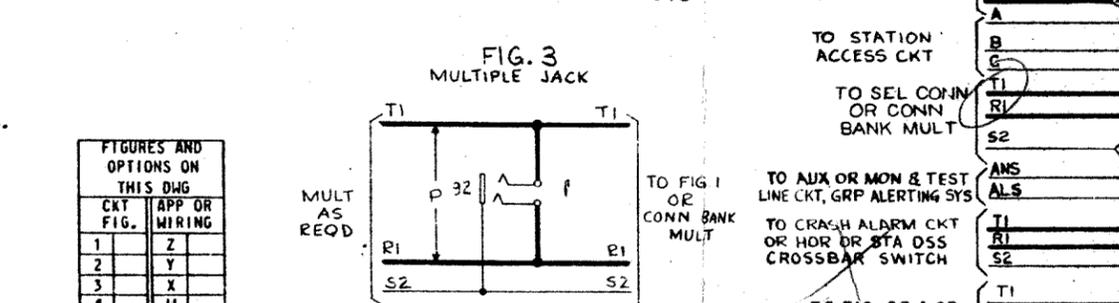
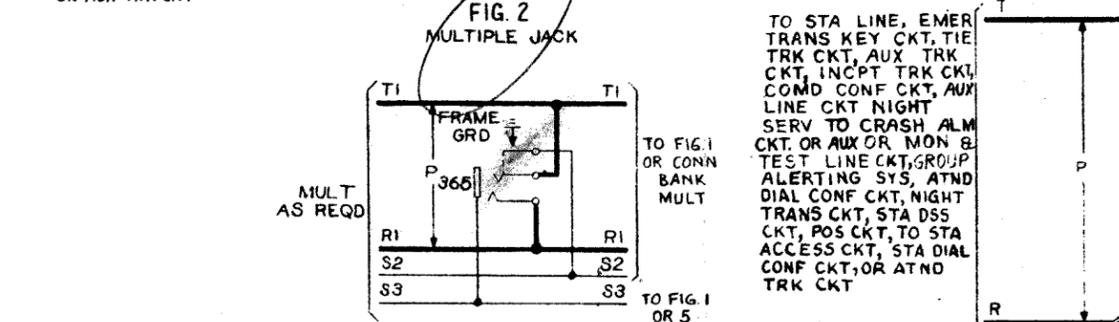
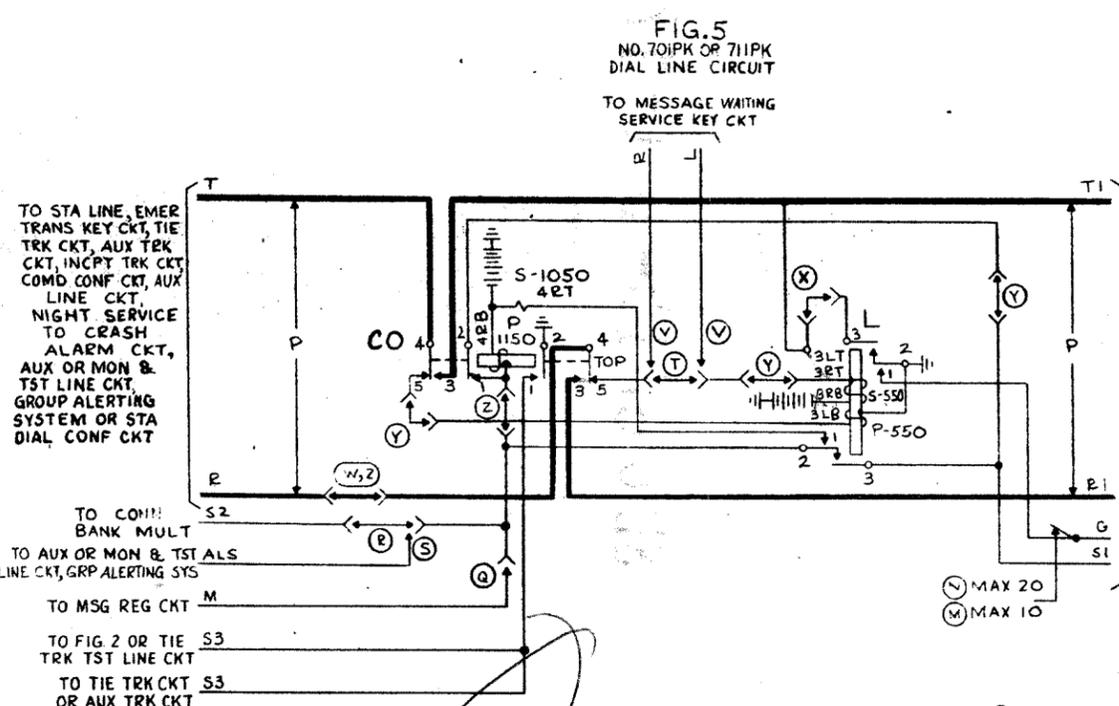
103. FOR UNRESTRICTED SERVICE, EITHER OMIT X OPTION OR INSULATE 3T(L) BY MEANS OF A PLASTIC SLEEVE PER P32B126.
104. WHEN ASSIGNED FOR NIGHT SERVICE, EITHER OMIT Y OPTION OR INSULATE 5T & 5B(CO) AND 2B(CO) WITH PLASTIC SLEEVING PER P32B126.

RECORD OF FIGURES, 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
2D	W OR Z	Z	102	W, Z			
4D	T OR V	T	102	T, V			
5D			102	FIG. 4			
6D	R OR S	R		R, S			
7D	Q FIG. 1	NONE	102	Q			
8D	M OR N	N	102	N			M
11D	J OR K	K	102	J, K			
14D	G OR H	H		G, H			
16D	DIODE	420G		446F		420G	
16D	Q FIG. 5	NONE	102	Q			
17D	F, FIG. 1	NONE	102	F			

106. WHEN THE MESSAGE WAITING SERVICE IS PROVIDED IN THE ASSOCIATED STATION SET, THE MAX CKT LOOP IS REDUCED 35 OHMS.
107. WHEN TOUCH-TONE CALLING USING STATION ACCESS CIRCUIT SD-66885-01 IS PROVIDED, USE T OPTION AND CONNECT THE MESSAGE WAITING SERVICE KEY CIRCUIT TO THE STATION ACCESS CIRCUIT.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS. VALUES PRECEDED BY THE SYMBOL +(PLUS) OR -(MINUS) ARE IN VOLTS.



FIGURES AND OPTIONS ON THIS DWG	
CKT FIG.	APP OR WIRING
1	Z
2	Y
3	X
4	W
5	V
101	H
	M
	K
	J
	G
	F

FIG. 101 CONNECTING ARRANGEMENT FOR 2 PARTY SERVICE

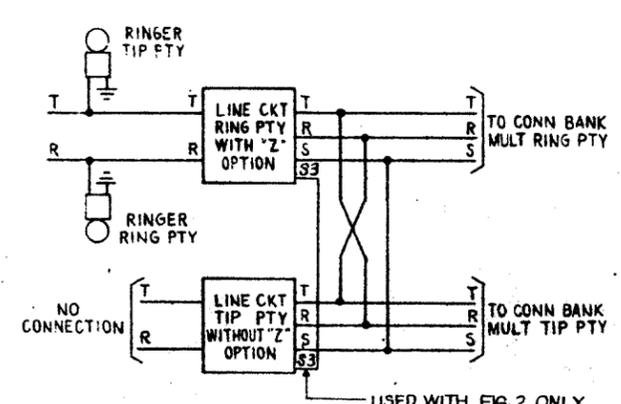
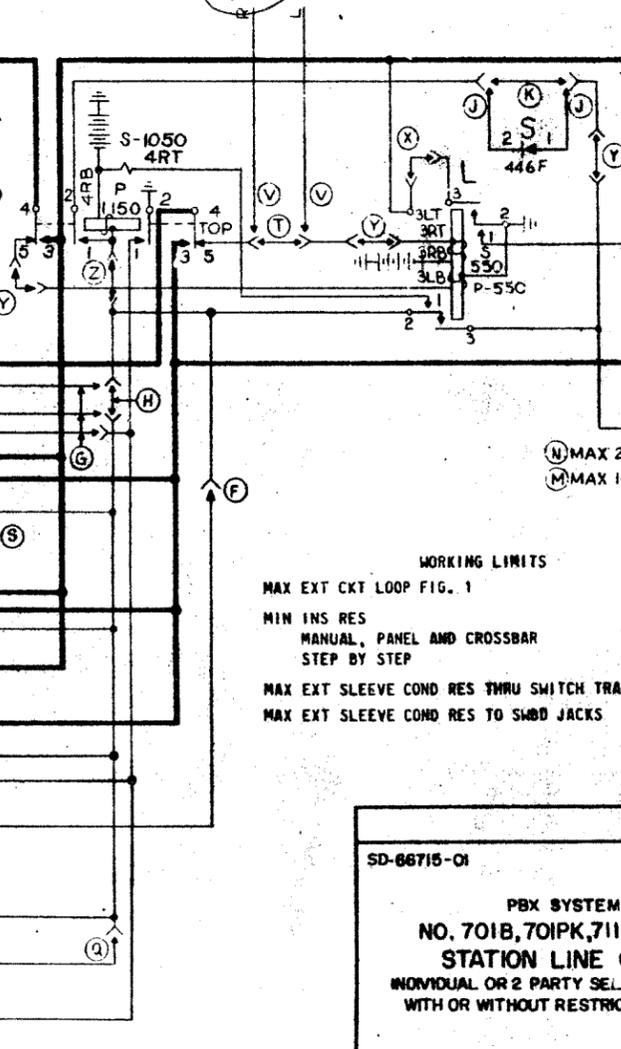


FIG. 1 NO. 701B OR 711B DIAL LINE CIRCUIT



WORKING LIMITS	
MAX EXT CKT LOOP FIG. 1	1000
MIN INS RES	
MANUAL, PANEL AND CROSSBAR	20,000
STEP BY STEP	30,000
MAX EXT SLEEVE COND RES THRU SWITCH TRAIN	7
MAX EXT SLEEVE COND RES TO SWBD JACKS	25

SD-66715-01

PBX SYSTEMS
NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT
INDIVIDUAL OR 2 PARTY SELECTIVE RINGING
WITH OR WITHOUT RESTRICTED SERVICE

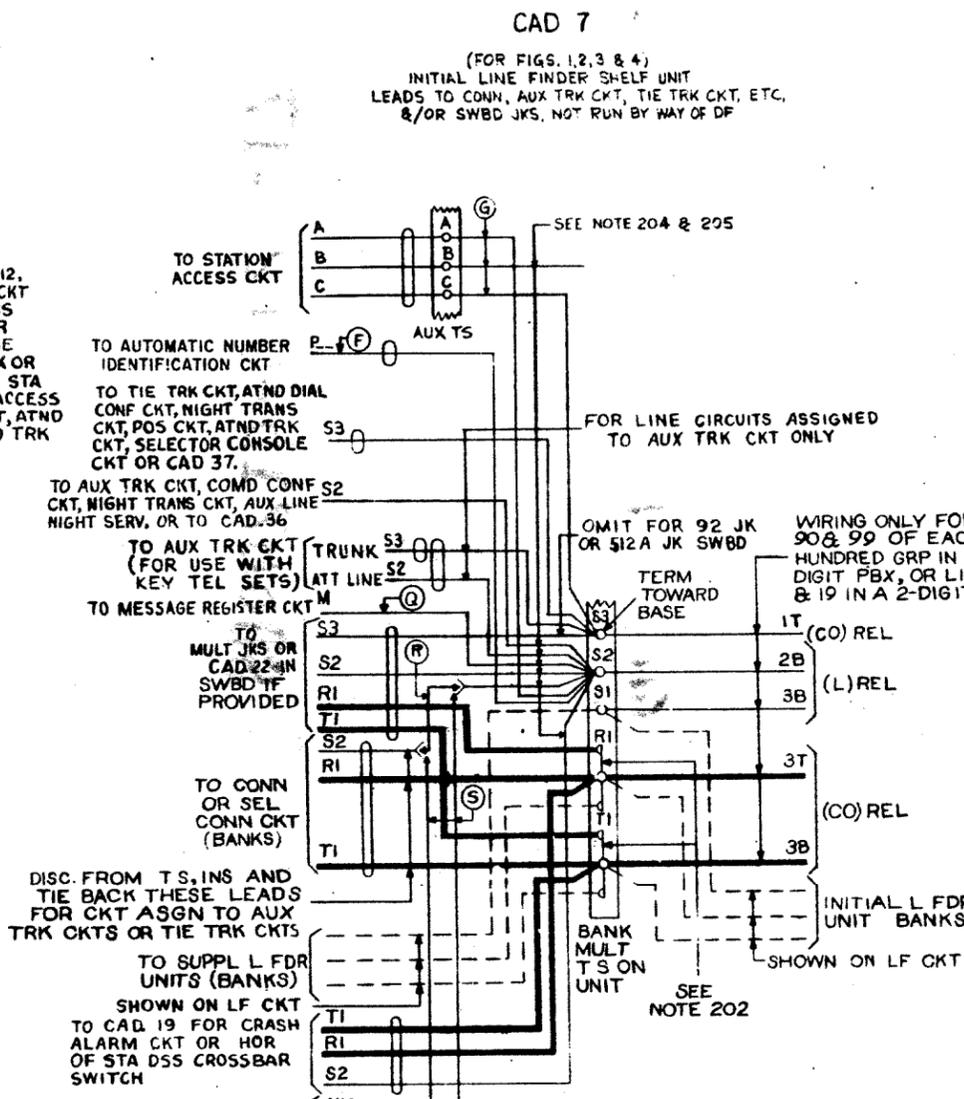
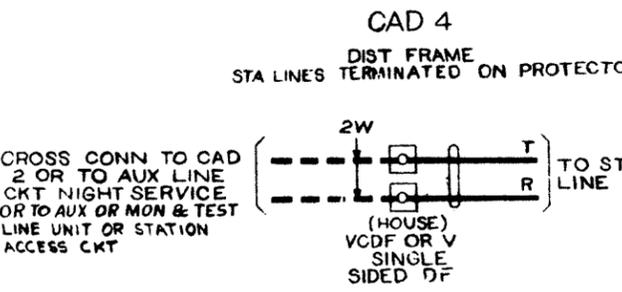
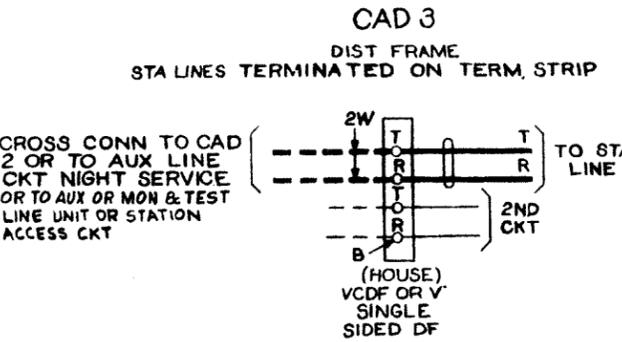
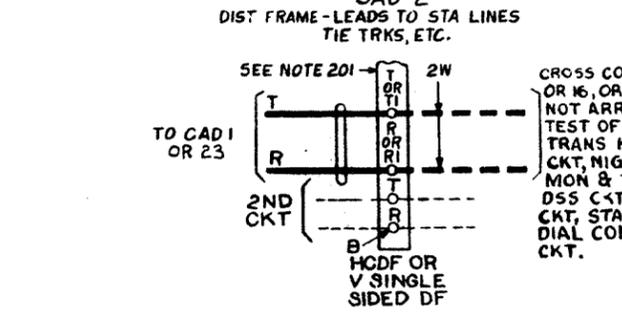
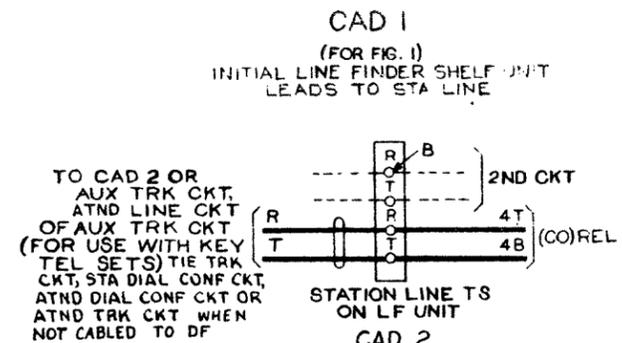
AT&T CO
STANDARD

SD-66715-011
5 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

FIG.	APP ID	DATE	BY	CHKD	REV
2D	APPID	4-17-57	JPH	HNA	1
3D	APP2D	6-14-57	JPH	HNA	2
4D	2D	3-31-59	JPH	HNA	3
5D	APP ID	6-12-59	JPH	HNA	4
6D	3D	4-7-60	JPH	HNA	5
7D	4D	7-21-60	JPH	HNA	6
8D	APP ID	11-15-60	JPH	HNA	7
9B	4D	3-7-61	JPH	HNA	8
10D	APP 3D	12-7-61	JPH	HNA	9
11D	5D	11-20-62	JPH	HNA	10
12D	APP ID	1-23-63	JPH	HNA	11
13D	5D	7-29-63	JPH	HNA	12
14D	APP 3D	8-20-63	JPH	HNA	13
15D	6D	1-8-64	JPH	HNA	14
16D	APP ID	6-4-64	JPH	HNA	15
17D	APP 2D	2-22-65	JPH	HNA	16

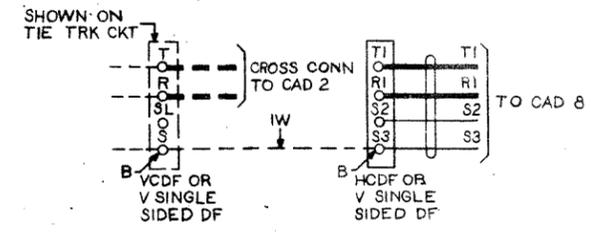
SD-66715-011



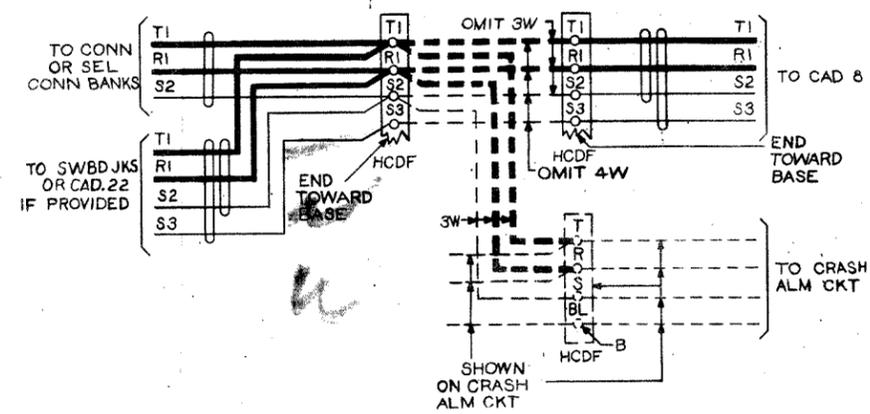
DRAWING	1	REV.
ISSUE	2D	REV.
	3D	REV.
	4D	REV.
	5D	REV.
	6D	REV.
	7D	REV.
	8D	REV.
	9B	REV.
	C.D.	REV.
	10D	REV.

A
B
C
D
E
F
G
H

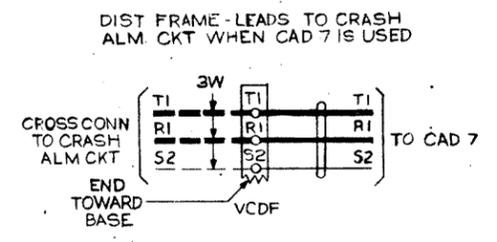
CAD 12
DIST FRAME - LEADS TO TIE TRK CKT
(WHEN INC SEL IS NOT USED)



CAD 15
DIST FRAME - CRASH ALARM CKT



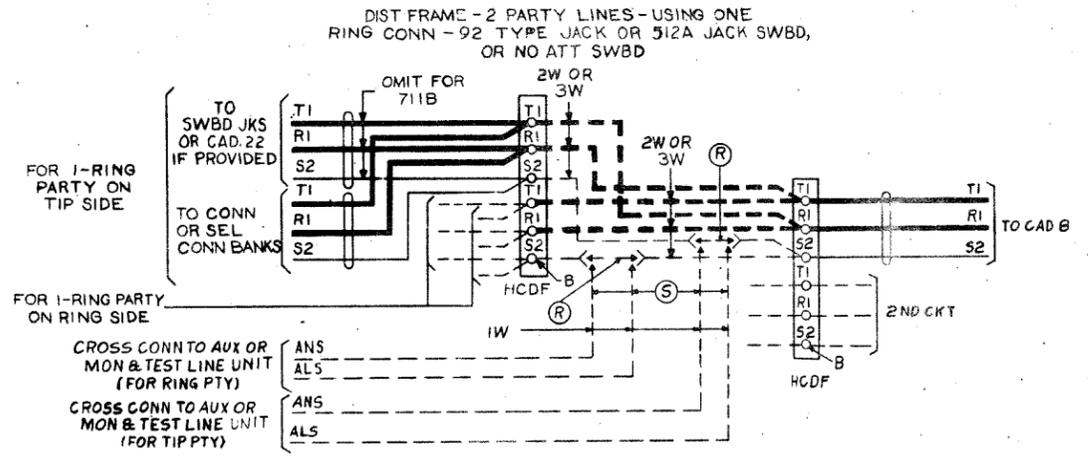
CAD 19



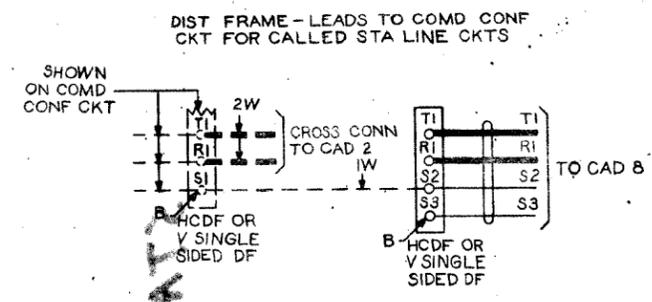
CAD 20

(FOR FIGS 1, 2 & 3)
INITIAL LINE FINDER SHELF UNIT
LEADS TO CONN. AND SWBD JKS WHEN PROVIDED,
WHEN NOT RUN BY WAY OF DIST FRAME
2-PARTY LINES IN THE SAME 200 LINE GROUP
ON INITIAL LINE FDR UNIT USING 1-RING CONN.
512A, 92 TYPE OR 365 TYPE SWBD JKS

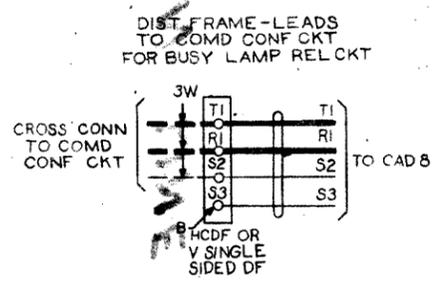
CAD 13



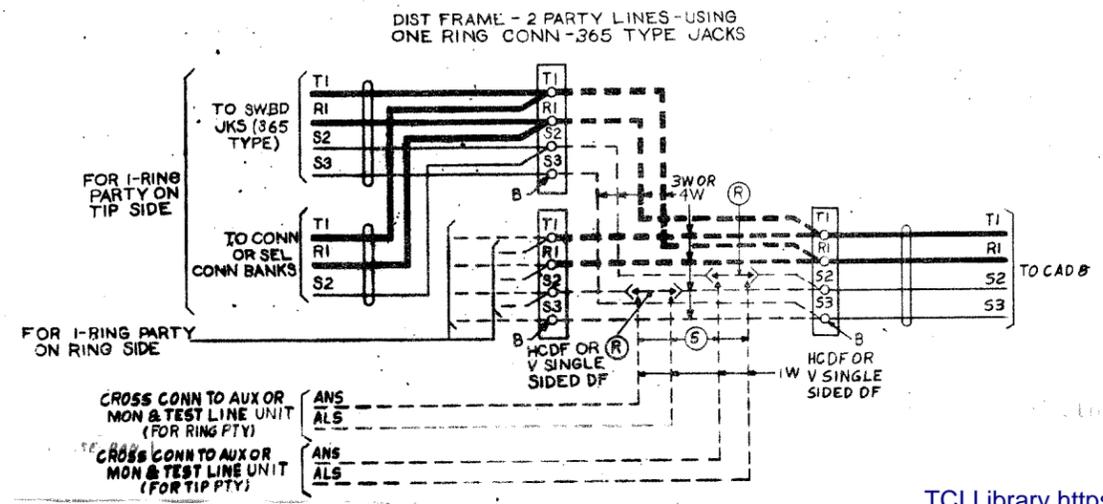
CAD 16



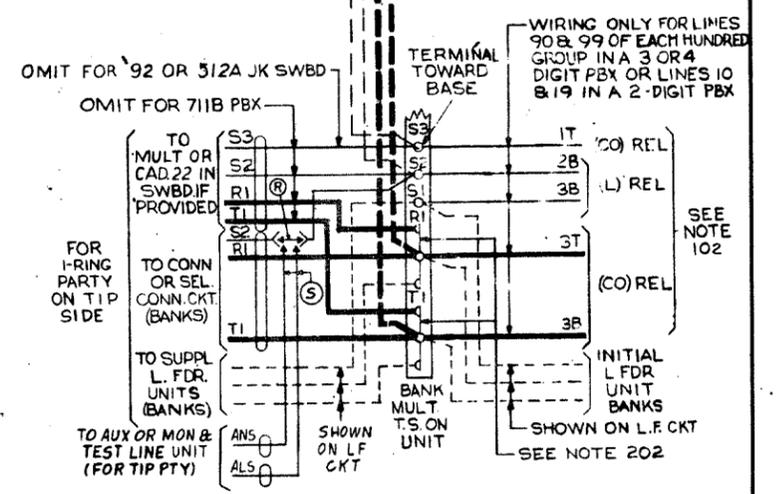
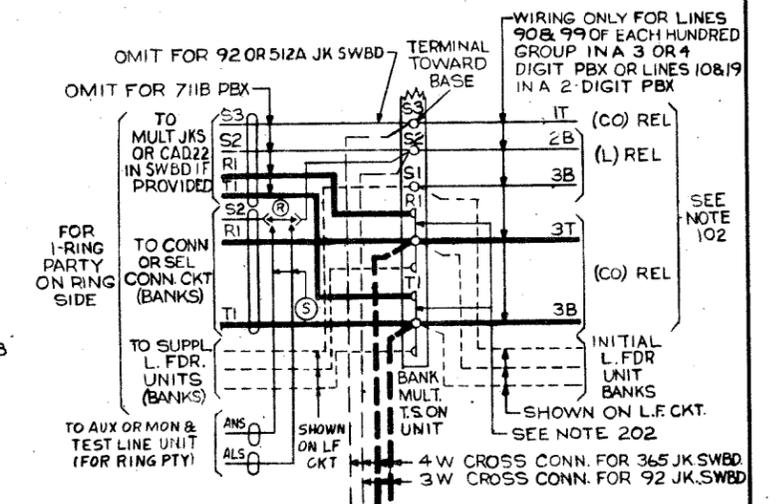
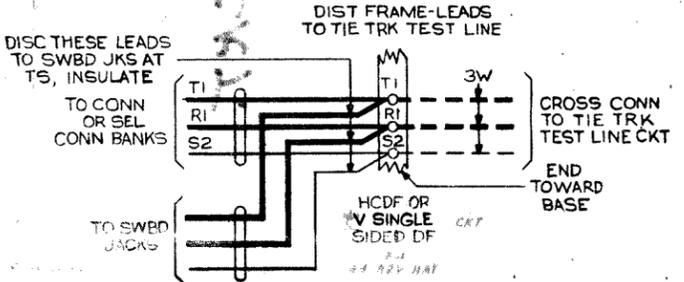
CAD 17



CAD 14



CAD 18

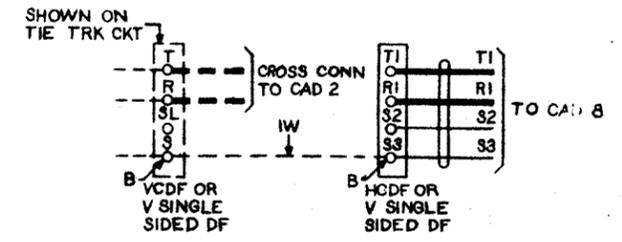


PBX SYSTEMS
NO. 701B OR 711B
STATION LINE CIRCUIT
SD-66715-013
3 SHEETS

SD-66715-013

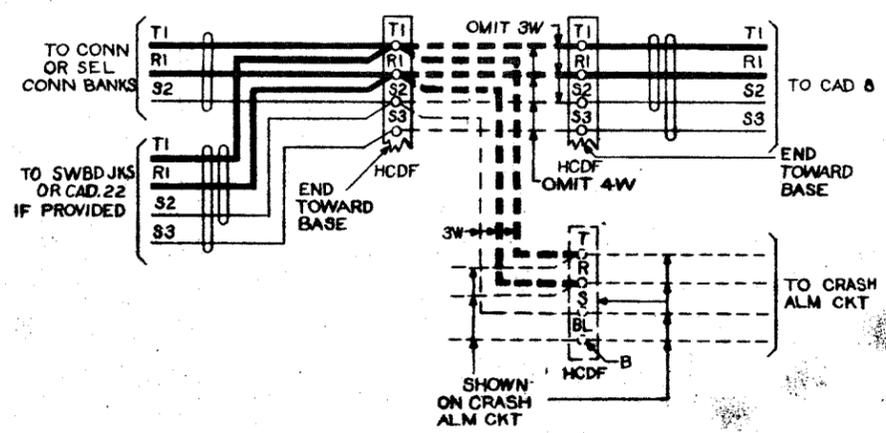
CAD 12

DIST FRAME - LEADS TO TIE TRK CKT
(WHEN INC SEL IS NOT USED)



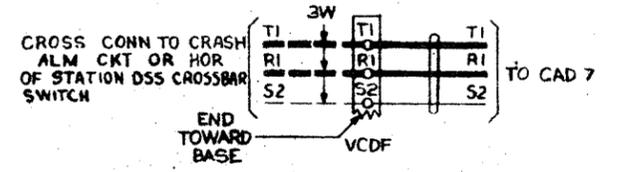
CAD 15

DIST FRAME - CRASH ALARM CKT



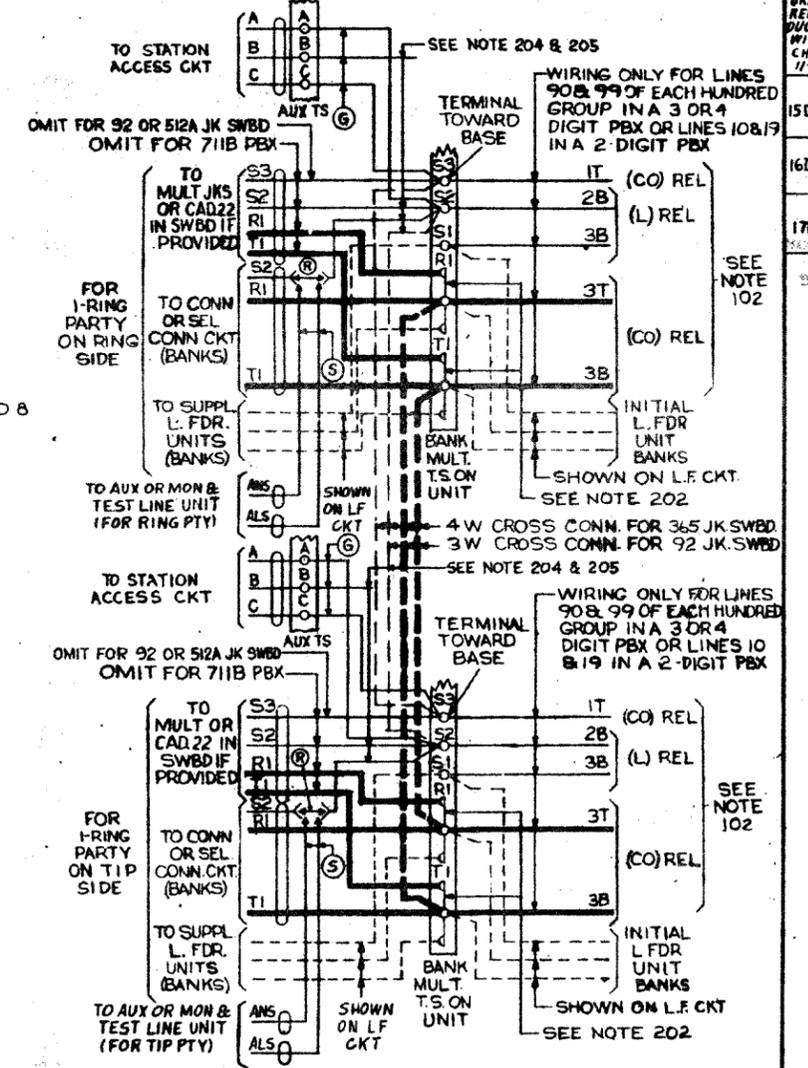
CAD 19

DIST FRAME - LEADS TO CRASH ALM CKT OR STATION DIRECT STATION SEL CKT WHEN CAD.7 IS USED



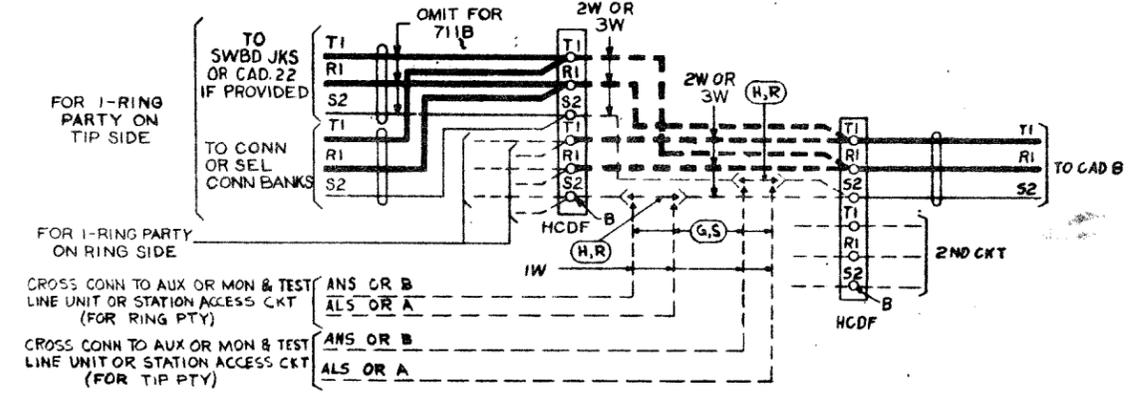
CAD 20

(FOR FIGS. 1, 2 & 3)
INITIAL LINE FINDER SHELF UNIT
LEADS TO CONN. AND SWBD JKS WHEN PROVIDED, WHEN NOT RUN BY WAY OF DIST FRAME
2-PARTY LINES IN THE SAME 200 LINE GROUP ON INITIAL LINE FDR UNIT USING I-RING CONN. 512A, 92 TYPE OR 365 TYPE SWBD JKS



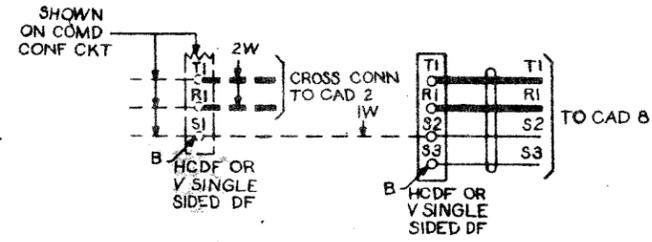
CAD 13

DIST FRAME - 2 PARTY LINES - USING ONE RING CONN - 92 TYPE JACK OR 512A JACK SWBD, OR NO ATT SWBD SEE CAD 35



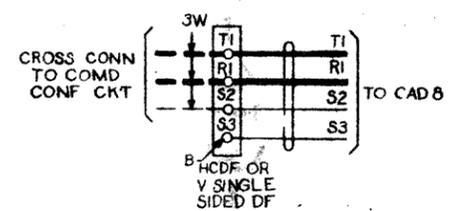
CAD 16

DIST FRAME - LEADS TO COMD CONF CKT FOR CALLED STA LINE CKTS



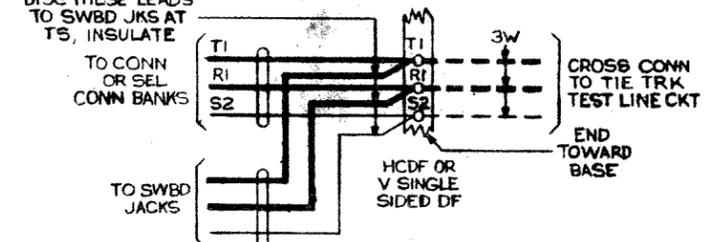
CAD 17

DIST FRAME - LEADS TO COMD CONF CKT FOR BUSY LAMP REL CKT



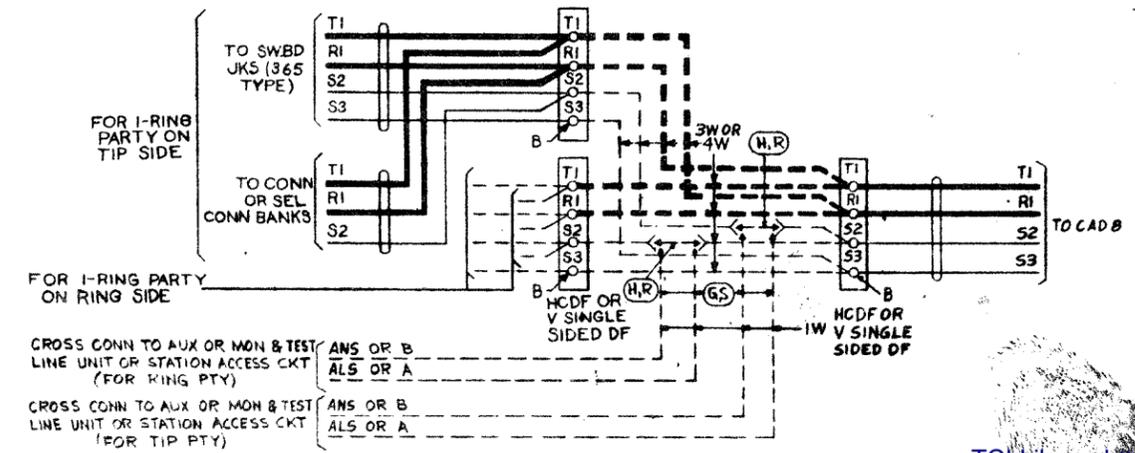
CAD 18

DIST FRAME - LEADS TO TIE TRK TEST LINE



CAD 14

DIST FRAME - 2 PARTY LINES - USING ONE RING CONN - 365 TYPE JACKS



PBX SYSTEMS
NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT

BELL TELEPHONE LABORATORIES
INCORPORATED

SD-66715-013

17

DRAWING ISSUE	DATE	BY	CHKD	APP'D
1				
2D				
3D				
4D				
5D				
6D				
7D				
8D				
9B				
10D				
11D				
12D				
13D				
14D				
15D				
16D				
17D				

D-66715-013

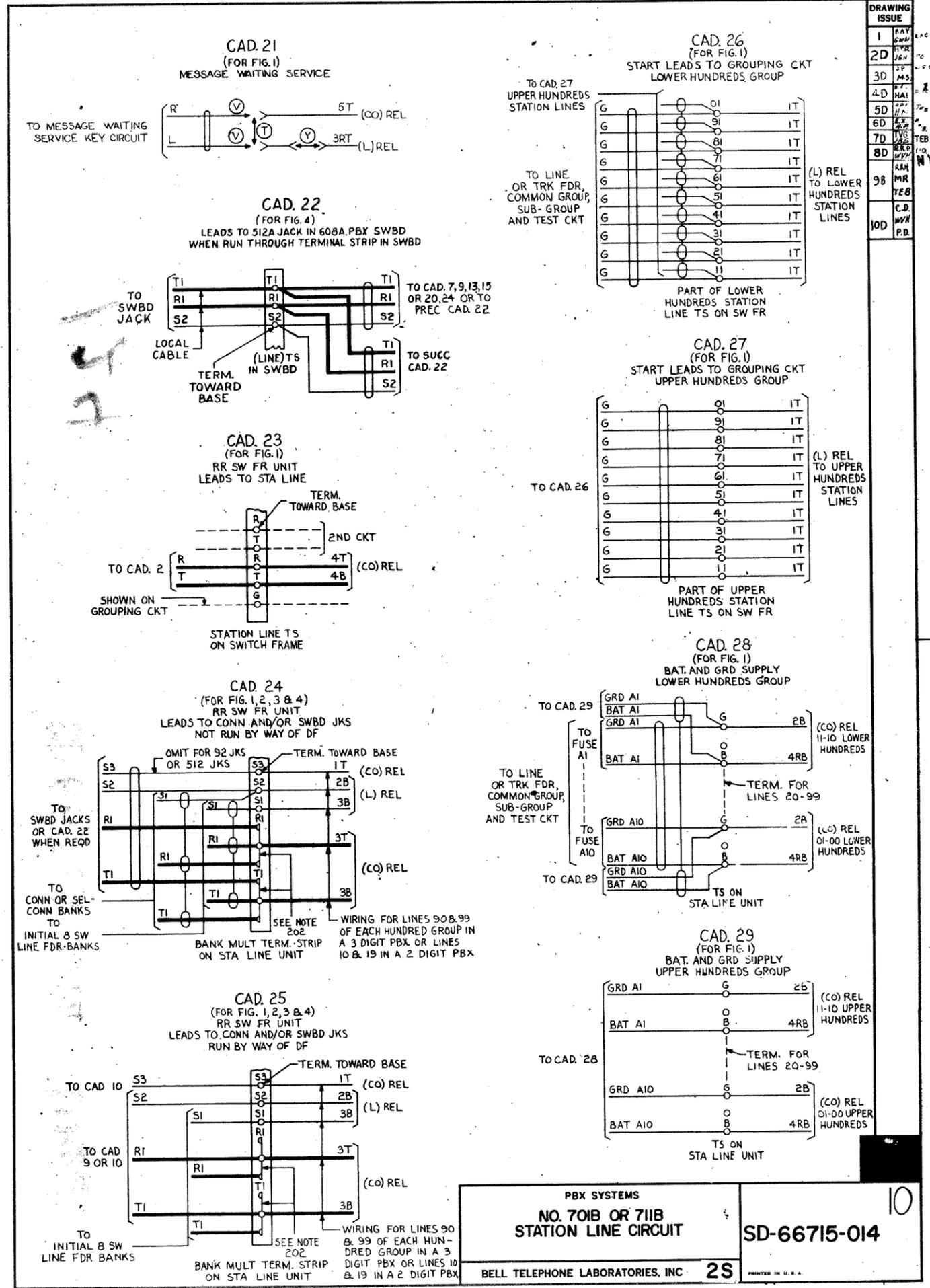
CIRCUIT REQUIREMENTS														DRAWING ISSUE				
STATION LINE CIRCUIT														1				
APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST			DIRECT CURRENT FLOW REQ			REMARKS	1
DESIG	CODE	OPTION	FIG.	BSF FIG.	CONT PRESS	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK	TEST	READJ		
								CONN BAT.	CONN GRD					MA.	MA.	MA.	3D	
RELAYS																		4D
CO	EA41		I	8/8	H		(L) O (L) O	2B(L) GRD 2B(L) GRD		I P O P/S O				20	19	INSULATE 1B & 1T(L) INSULATE 1T(L)	5D	
L	EA42		I	4/4	H		(CO) O (CO) O	5B(CO) 5T(CO) 5B(CO) 5T(CO)		M P/S O M P/S NO				20	19		6D	
														12.7	13.3		7D	
																	8D	
																	9B	
																	10D	

TEST NOTES:
1. WITH A .15 MIL GAUGE BETWEEN ARMATURE AND CORE, AND RELAY ENERGIZED, SPRINGS 4-5T & 4-5B SHALL NOT BREAK.

NO. 701B OR 711B
STATION LINE CIRCUIT

SD-66715-014

BELL TELEPHONE LABORATORIES, INC



PBX SYSTEMS
NO. 701B OR 711B
STATION LINE CIRCUIT

SD-66715-014

BELL TELEPHONE LABORATORIES, INC 2S

SD-66715-014

CIRCUIT REQUIREMENTS
STATION LINE CIRCUIT

APPARATUS				MECH. INST.				CIRCUIT PREPARATION				DIRECT CURRENT FLOW TEST				REMARKS
DESG	CODE	OPTION	FIG	REP FIG	CONT PRESS	ARM. TRVL	BLOCK OR INST-LATE	TEST CLIP DATA	TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK	TEST	READJ	
								CORN BAT.	CORN GRD				MA	MA	MA	
RELAYS																
CO	EA41		1,5	8/8	H		(L) O (L) O	2B(L) GRD 2B(L) GRD	1,2 2	P P/S	O O		20 46	19	INSULATE 1B & 1T(L) INSULATE 1T(L)	
L	EA42		1,5	4/4	H		(CO) O (CO) O	5B(CO) 5B(CO)	5T(CO) 5T(CO)	M M	P/S NO	O O	20 12.7	19 13.8		

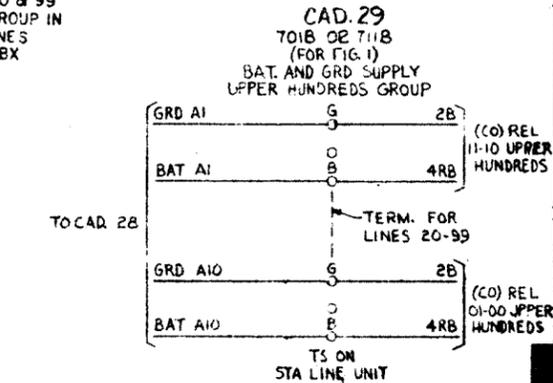
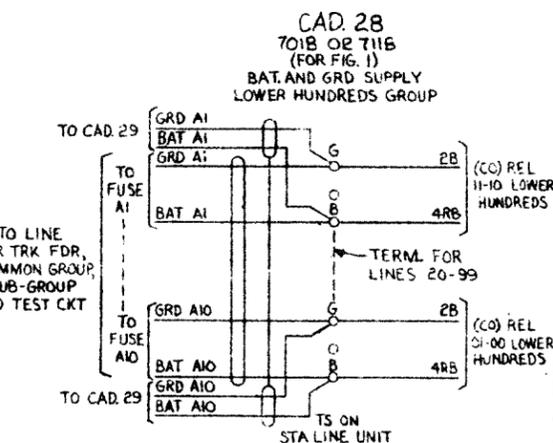
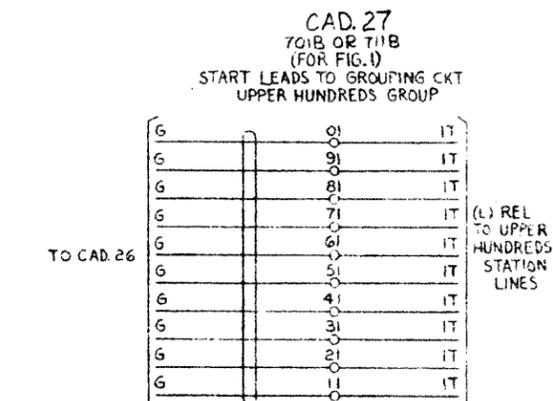
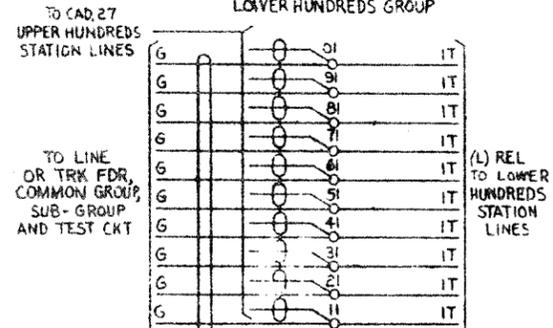
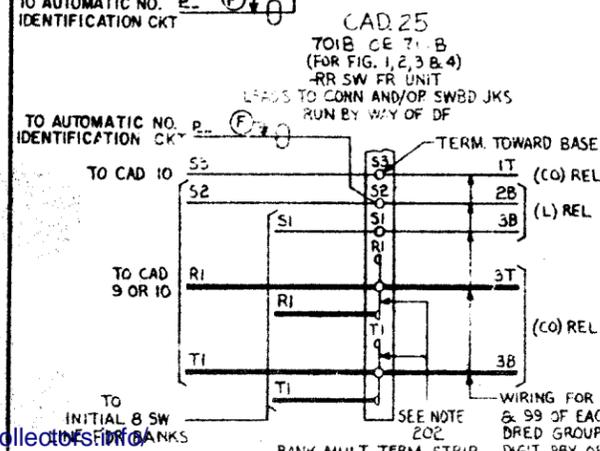
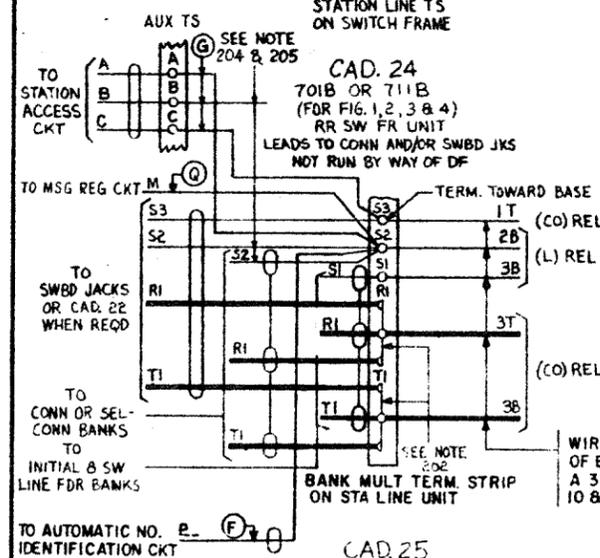
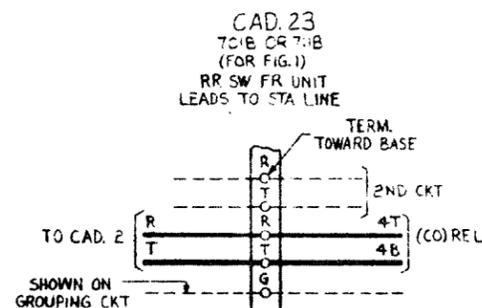
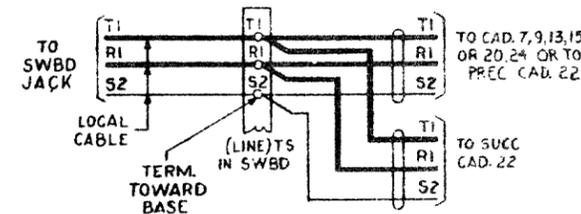
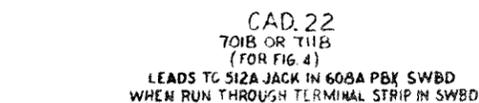
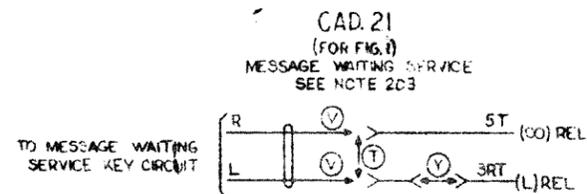
DRAWING ISSUE
1 DAY
2D
3D
4D
5D
6D
7D
8D
98
100
110
120
130
140
150
16D
170

- TEST NOTES:
1. WITH A 15 MIL GAUGE BETWEEN ARMATURE AND CORE, AND RELAY ENERGIZED, SPRINGS 4-5T & 4-5B SHALL NOT BREAK.
2. WHEN TOUCH-TONE CALLING WITH STATION ACCESS CIRCUIT PER SD-66885-01 IS PROVIDED, INSULATE 8B OF THE (AL) RELAY IN THAT CIRCUIT.

NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT

SD-66715-014

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PBX SYSTEMS
NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT

SD-66715-014

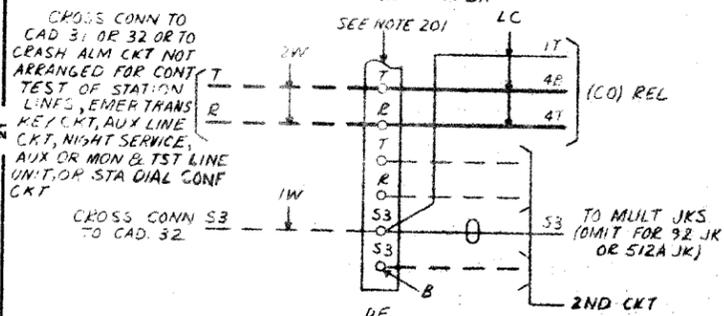
SD-66715-014

DRAWING ISSUE
1 DAY
2D
3D
4D
5D
6D
7D
8D
98
100
110
120
130
140
150
16D
170

NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT
SD-66715-014

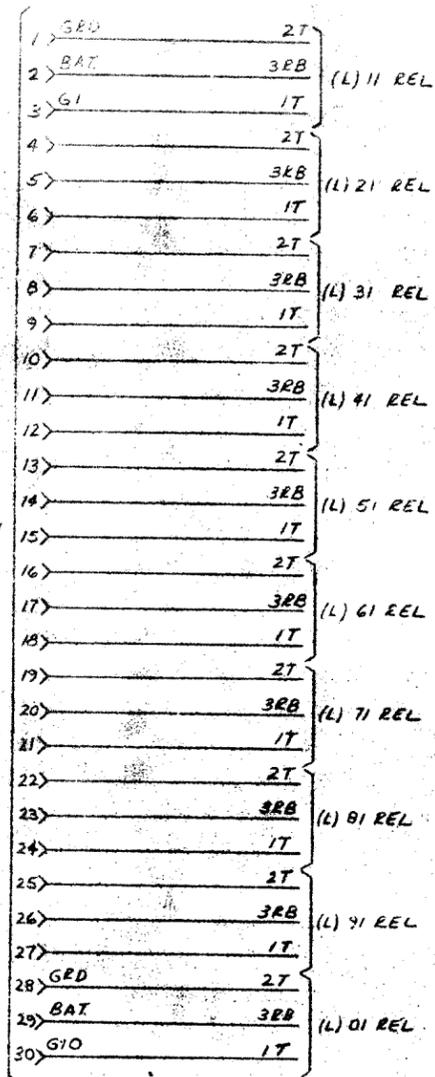
CAD. 30

FOR 701PK OR 711PK ONLY
LINE FINDER LEADS
TO STATION LINE
701PK OR 711PK PBX



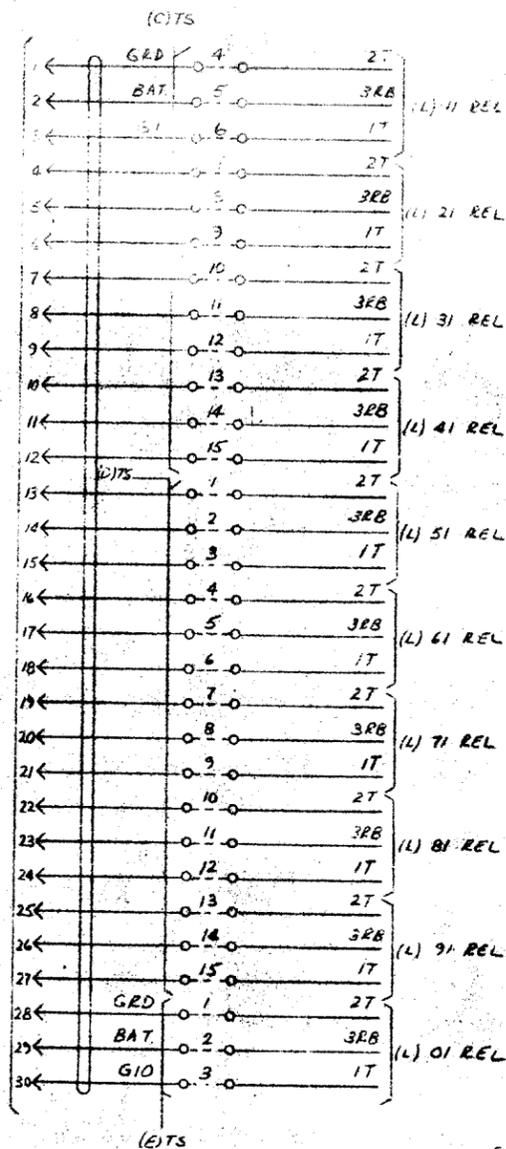
CAD. 33

(FOR FIG. 5)
1ST MODULE
BATTERY, GROUND & G LEADS
701PK OR 711PK PBX



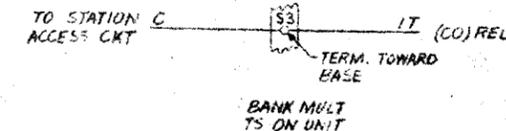
CAD. 34

(FOR FIG. 5)
2ND MODULE
BATTERY, GROUND & G LEADS
701PK OR 711PK PBX



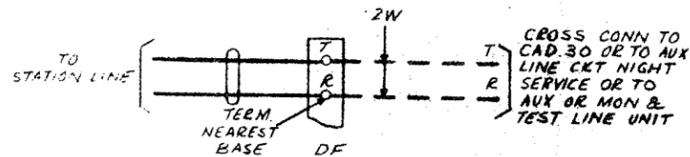
CAD. 35

(FOR FIG. 1)
STATION ACCESS CONNECTIONS
IN ADDITION TO THOSE INDICATED
IN CADS 9 & 13



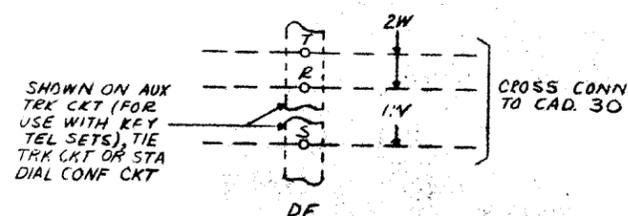
CAD. 31

FOR 701PK OR 711PK ONLY
STATION LINES TERMINATED
ON TERM. STRIP
701PK OR 711PK PBX



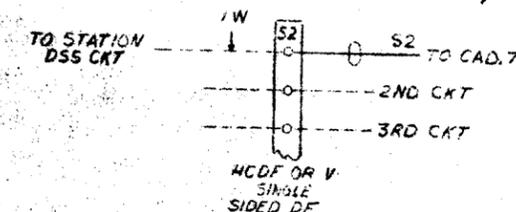
CAD. 32

FOR 701PK OR 711PK ONLY
LEADS TO AUX TRK CKT,
TIE TRK CKT,
OR STA DIAL CONF CKT
701PK OR 711PK PBX



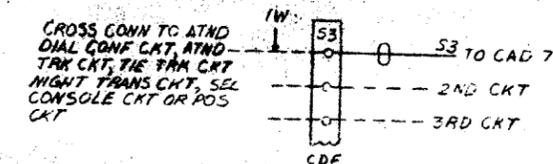
CAD. 36

DIST FRAME
LEAD TO STA DIR STA SEL CKT (ORIG STA)



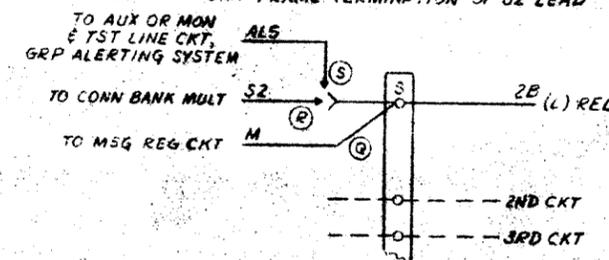
CAD. 37

DIST FRAME TERMINATION - S3 LEAD



CAD. 38

(FOR FIG. 5)
FOR 701PK OR 711PK
DIST FRAME TERMINATION OF S2 LEAD



DRAWING	12D	13D	14D	15D	16D	17D
ISSUE	12D	13D	14D	15D	16D	17D
DATE						
BY						
CHKD						
APP'D						
DATE						
BY						
CHKD						
APP'D						
DATE						

SD-66715-015