

SD-65900-01										DWG				
CIRCUIT REQUIREMENTS										NO.				
DIGIT ABSORBING SELECTOR (BASE)										REV.				
APPARATUS	MECH. REQ.	CIRCUIT PREPARATION	TEST	SEE DIRECT CURRENT FLOW REQ.	TIME REQ.	REMARKS								
DESIG	CODE	OPTIO	RESID	CONTA	TEST CLIP DATA	TEST	TEST	TEST	TEST	TEST				
RELAYS														
A 221A	1	7-11	726	8	B(NO)	TST-JK-2	TST-JK-1	M	1/2	F/R	0	FS	15.1	14.8
B 248G	1	4-4	517	27	1(A)	TST-JK-2	TST-JK-1	M	2	F/R	NO	FS	13.9	14.4
C 221F	1	S-4	164	13	1(A)	TST-JK-2	TST-JK-1	M	10	F/R	NO	FS	8.5	9
D 222K	1	S-4	385	15	1(E)	TST-JK-2	TST-JK-1	M	10	F/R	NO	FS	8.5	9
E 221N	1	7-9	700	16	4(C)	TST-JK-2	TST-JK-1	M	10	F/R	NO	FS	8.5	9
F 222J	1	S-4	381	29	1(E)	TST-JK-2	TST-JK-1	M	10	F/R	NO	FS	8.5	9
Z 225B	F	S-4	89	13	1(Z)	TST-JK-2	TST-JK-1	M	10	F/R	NO	FS	8.5	9

NOTES:
 1. ARMATURE NEED NOT TOUCH COIL.
 2. CONTACT FOLLOW SPRINGS 2-3 MIN. 8 CONTACT SEPARATION ON ALL CONTACTS MIN. 3.
 3. FOR USE WHEN TIMING REQ. ARE NOT APPLIED.
 4. SHORT CIRCUIT SPRINGS 3 & 4 OF TEST JACKS.
 5. CONTACTS 1-2 MAY BREAK.
 6. NO CONTACTS MAY BREAK.
 7. CONTACTS 1-2 SHALL MAKE BEFORE SPRING 1 STRIKES BUSHING ON SPRING 4.
 8. CONTACTS 1-2 MAY MAKE.
 9. JACK SPRINGS 9-11 SHALL MAKE CONTACT WHEN SW. IS REMOVED.
 10. FOR USE WHEN TIMING REQ. ARE APPLIED.
 11. TEST HOLD USE 14000 LOOP IN PULSING TEST SET.
 12. TEST HOLD USE LEAD A IN PULSING TEST SET.

197FN SWITCH 344 JACK 242A PLUG

DESIG	AMP	POTENTIAL FUSED	ONE PER
A	1-1/3	48V SIGNAL	FIG. 1(701A,711A OR 740E)
A	3	48V SIGNAL	3 FIGS. 1(701B OR 711B)

FEATURE OR OPTION	PROVIDE	
	FIG.	QUANTITY
REGULAR SELECTOR CIRCUIT WITH RESTRICTED SERVICE (SEE NOTE 302)	E, H, V	
INCOMING SELECTOR AND PAD CONTROL IS (SEE NOTES 303 AND 304)	H	
AND USED WITH TIE TRUNKS (SEE NOTE 305)	G	
AND USED WITH TRUNK CIRCUIT SD-5E028-01 OR EQUIVALENT (SEE NOTES 105 AND 308)	F	1 PER SEL
DIGIT ABSORBING AND ON FIRST REQUIRED (SEE NOTES 301 AND 306)	X	
DIAL TONE	Y	
ALL PATHS BUSY TONE AT	ZB	
CONNECTION TO TRAFFIC MEASUREMENT SYSTEM NO. 1A	ZA	

CHANGED ON ISS.	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN.	SEE NOTE	USE IN CIRCUIT
				STD. A&M M.D. SPL
3D				R S
4D	N OR M	M		N M
8D	G OR H	H	102,206	H
10D	E OR F	E	102	E, F
11D	A OR B	B		A B
	ZA	NONE	102	ZA
	ZB OR ZC	ZB	102	ZB, ZC

FIGS.	APP. OR WIRING
1	Z ZA
	Y ZB
	X ZC
	W
	V
	T
	S
	R
	N
	M
	H
	G
	F
	E
	B
	A

NETWORK VALUES		
NO.	CODE	CAPACITY IN UF
1	178A	1.0

NO.	CODE	RESISTANCE IN OHMS	CAPACITY IN UF
1	178A	150	1.0

WORKING LIMITS
 PULSING FROM SUB.
 MAX. EXT DKT LOOP 7500 * 8500** 10000***
 MIN. INS RES. 15,0000
 ** WHEN USING 10000 LOOP-LEAK "B" IN PULSING TEST SET
 *** WHEN USING 12000 LOOP-LEAK "A" IN PULSING TEST SET
 **** WHEN USING 14000 LOOP-LEAK "A" IN PULSING TEST SET

44-52V.

110-00623-G2

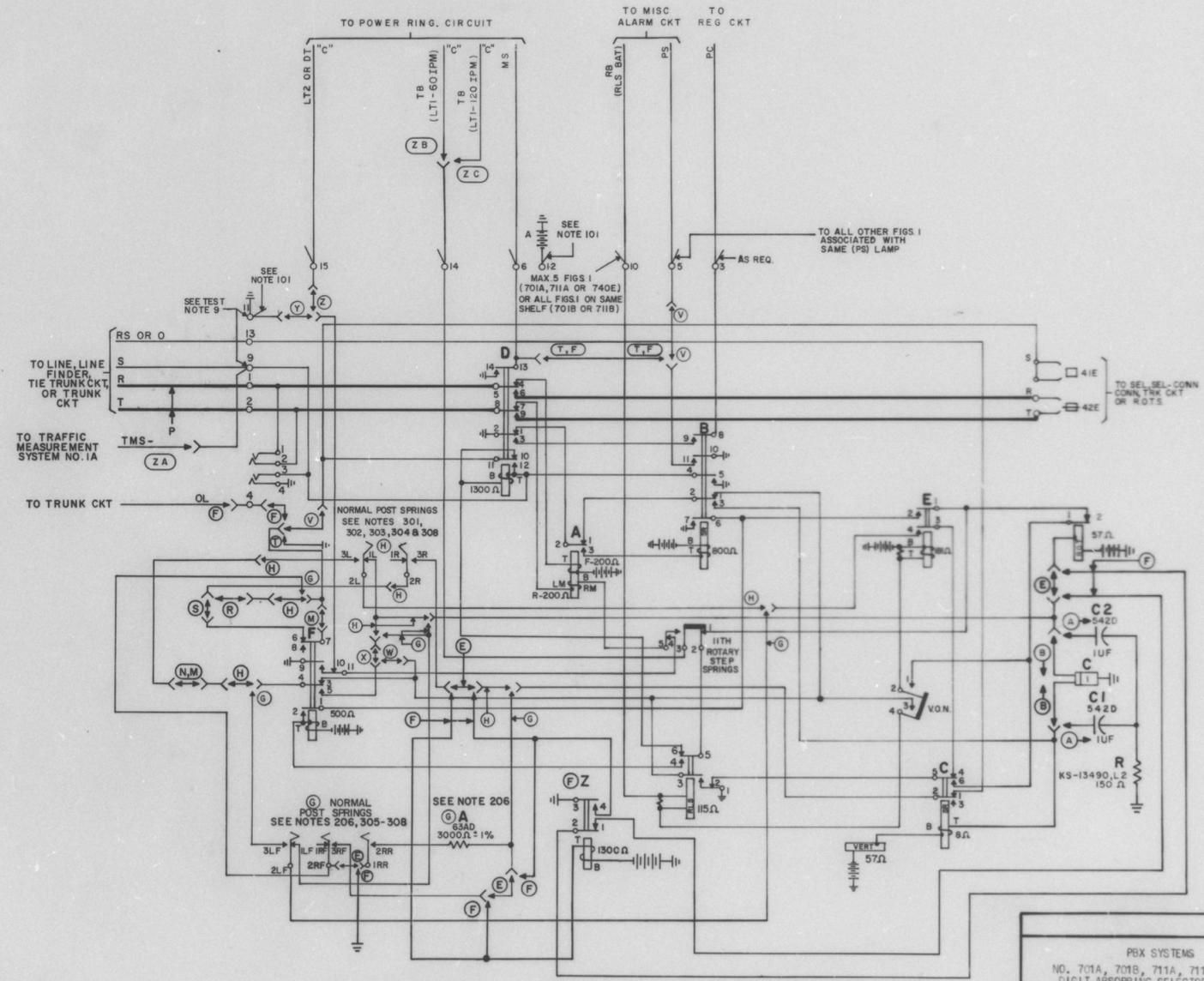
SD-65900-01

197FN SWITCH 344 JACK 242A PLUG

110-00623-G2

110-00623-G2

FIG. 1
SELECTOR



- INFORMATION NOTES:
- THE "L" NORMAL POST SPRINGS SHALL OPERATE ON LEVELS ON WHICH A DIGIT IS TO BE ABSORBED.
 - THE "R" NORMAL POST SPRINGS SHALL OPERATE ON LEVELS ON WHICH RESTRICTED SERVICE IS REQUIRED.
 - ON AN INCOMING SELECTOR, THE RIGHT AND LEFT NORMAL POST SPRINGS SHALL NOT BE OPERATED ON THE SAME LEVEL.
 - ON AN INCOMING SELECTOR THE "P" NORMAL POST SPRINGS SHALL OPERATE ON THE ZERO LEVEL ONLY.
 - WITH "G" OPTION, THE RIGHT FRONT NORMAL POST SPRINGS SHALL BE ADJUSTED TO CLOSE ON ANY LEVELS ARRANGED TO ROUTE CALLS TO THE ATTENDANT.
 - WITH "G" OPTION, THE LEFT FRONT NORMAL POST SPRINGS SHALL BE ADJUSTED TO CLOSE ON LEVELS ON WHICH A DIGIT IS TO BE ABSORBED.
 - WITH "G" OPTION, THE RIGHT REAR NORMAL POST SPRINGS SHALL BE ADJUSTED TO CLOSE ON ANY LEVELS REQUIRING THE REMOVAL OF TRANSMISSION PAD.
 - WHEN USING THIS CIRCUIT AS AN INCOMING SELECTOR FOR SD-5E028-01, THE NORMAL POST SPRINGS SHALL BE ADJUSTED AS FOLLOWS:
 - THE RIGHT (OPTION H) OR RIGHT FRONT (OPTION G) NORMAL POST SPRINGS SHALL BE ADJUSTED TO OPERATE ON THE LEVEL ARRANGED TO ROUTE CALLS TO THE ATTENDANT.
 - THE LEFT (OPTION H) OR LEFT FRONT (OPTION G) NORMAL POST SPRINGS SHALL BE ADJUSTED TO OPERATE ON LEVELS ON WHICH DIGIT ABSORPTION IS REQUIRED.
 - THE RIGHT REAR NORMAL POST SPRINGS (OPTION G) SHALL BE ADJUSTED TO OPERATE ON ANY LEVELS REQUIRING THE REMOVAL OF TRANSMISSION PAD.

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	DRWEN	APPRO.
1	1	3-14-55	M.R.	RAW
2B	APP 1B	5-24-55	S.F.L.	RAW
3D	APP 2D	8-26-55	M.R.	RAW
4D	2D	5-15-56	M.R.	RAW
5D	APP 1D	11-6-57	V.G.S.	H.H.A.
6D	APP 2D	1-3-58	M.R.	H.H.A.
7D	APP 3D	12-23-58	M.R.	H.H.A.
8D	3D	2-19-63	M.S.	E.W.B.
9D	APP 1D	8-29-66	GAH	RLS
10D	APP 2D	5-14-68	EWE	JLF
11D	4D	11-28-72	GDI	RCL
12D	APP 1D	12-13-76	HBD	RCL

DRAWING REFURBISHED WITHOUT CHANGE 2-13-64

WORKING DRAWING REPRODUCED WITHOUT CHANGE BCM 4-20-67

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

ISSUE 12D

PBX SYSTEMS 3J07

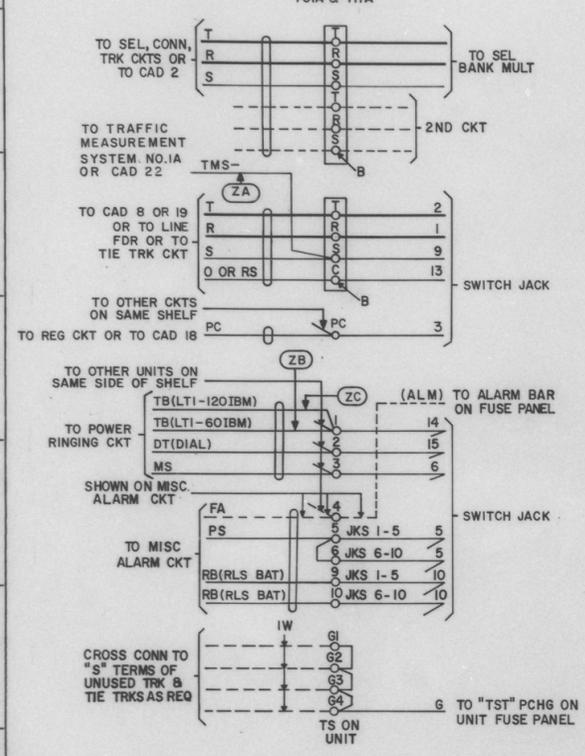
NO. 701A, 701B, 711A, 711B OR 740E
 DIGIT ABSORBING SELECTOR CIRCUIT
 ABSORBS DIGITS ONCE ONLY OR REPEATEDLY AND RESTRICTS SERVICE ON SPECIFIED LEVELS ARRANGED FOR OPERATION WITH DIAL REPEATING TIE TRUNKS

SD-65900-011
 3 SHEETS

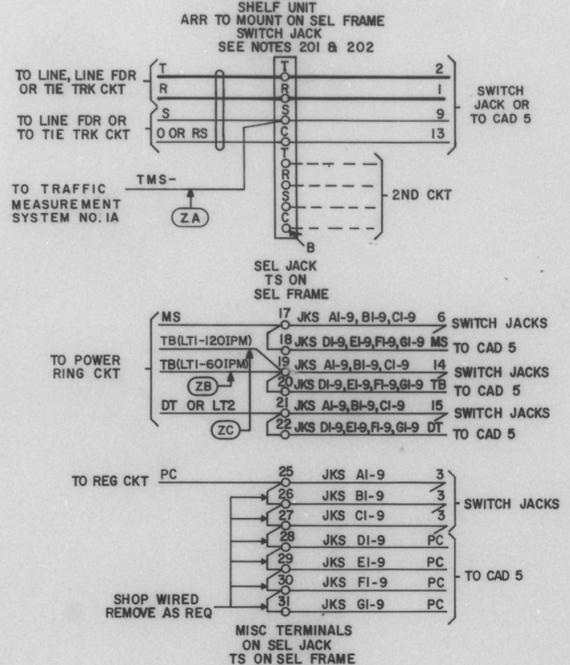
BELL TELEPHONE LABORATORIES, INC.

PRINTED IN U.S.A.

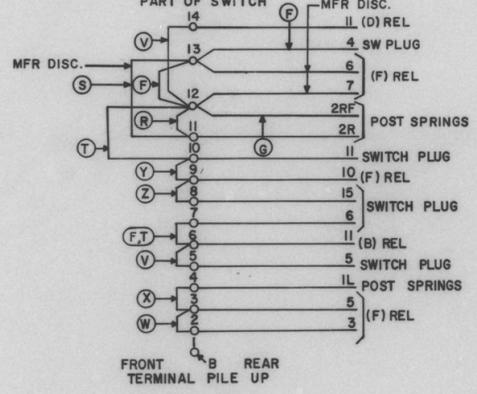
CAD 1 (A & M ONLY)



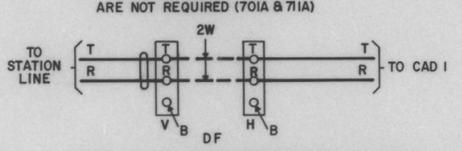
CAD 4 (MFR DISC.)



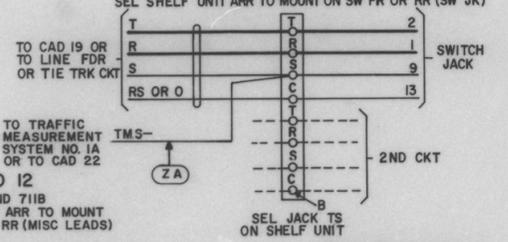
CAD 7



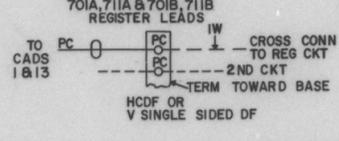
CAD 8 (MFR DISC.)



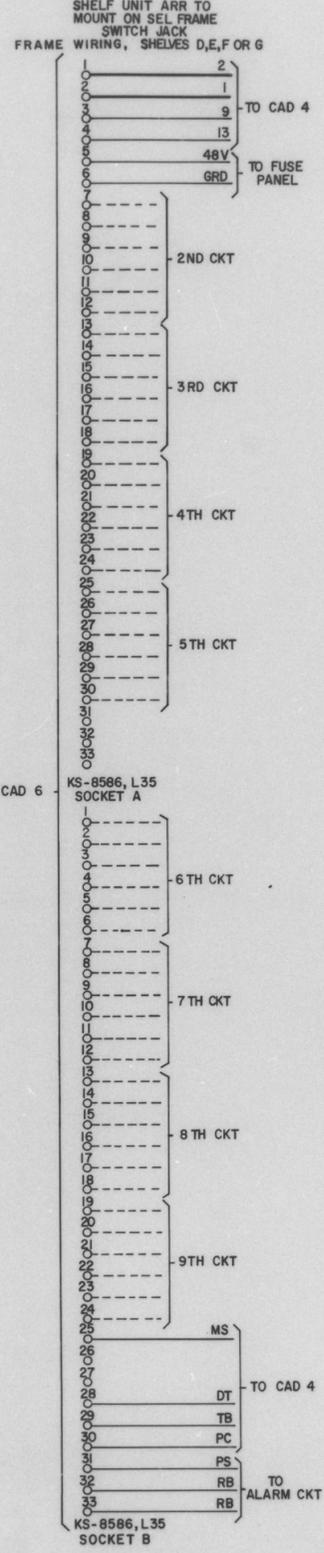
CAD 10 (A & M ONLY FOR 740E)



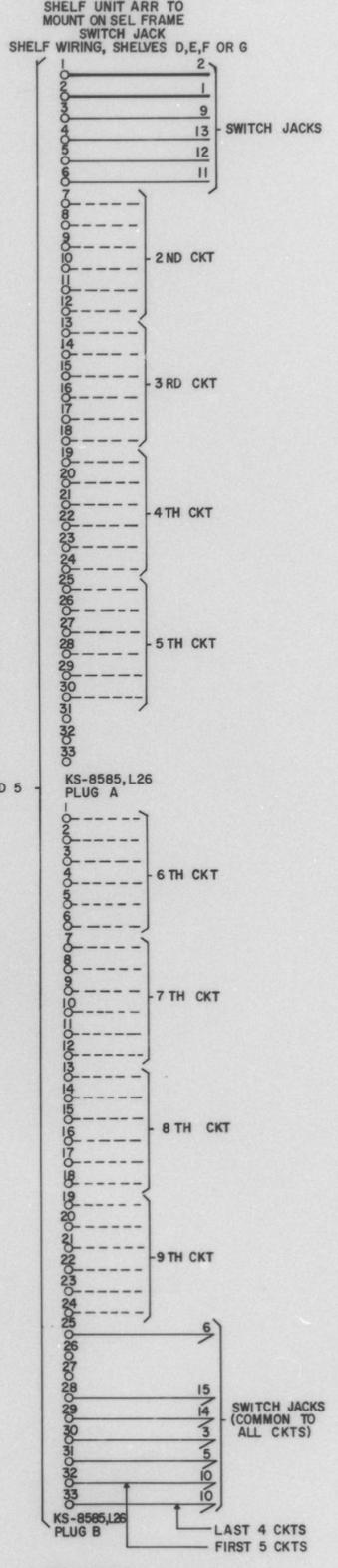
CAD 18 (A & M ONLY FOR 701A & 711A)



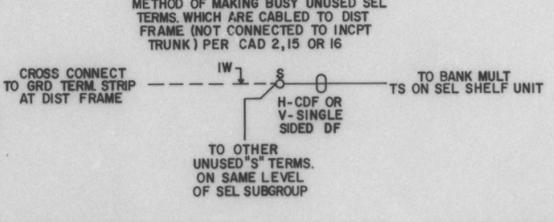
CAD 5 (MFR DISC.)



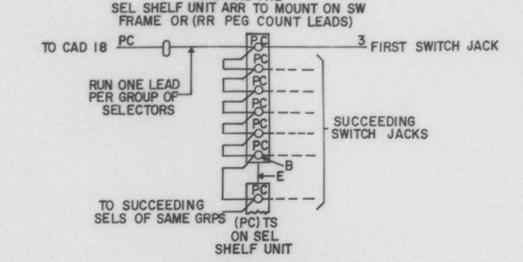
CAD 6 (A & M ONLY)



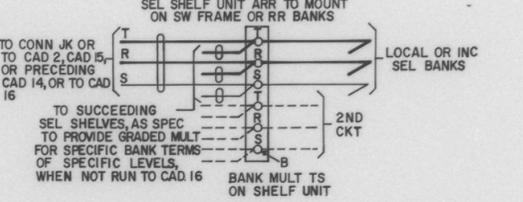
CAD 17



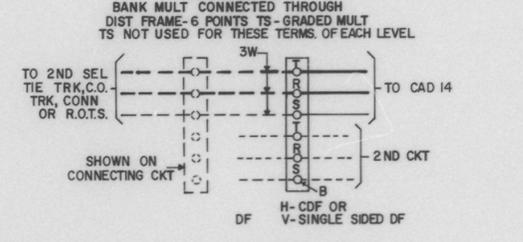
CAD 13



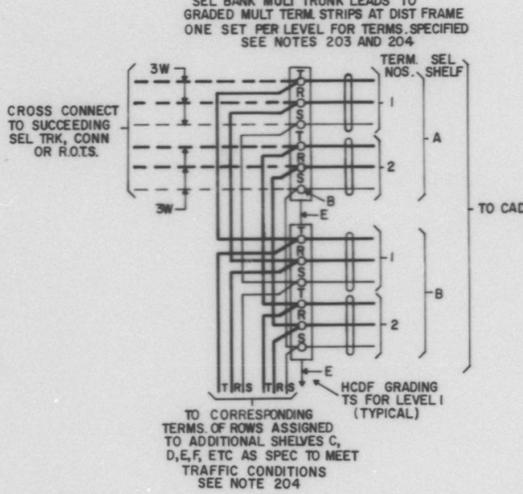
CAD 14



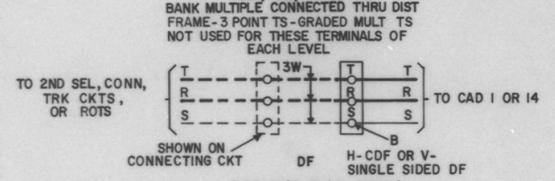
CAD 15



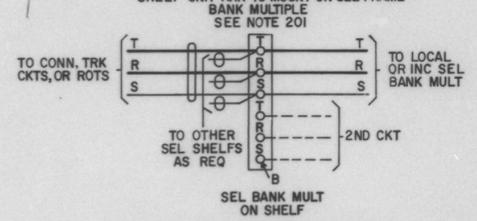
CAD 16



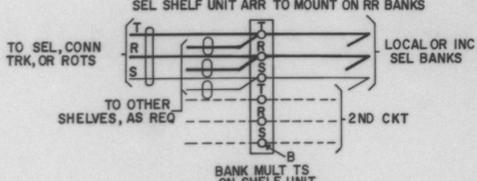
CAD 2 (A & M ONLY FOR 701A & 711A)



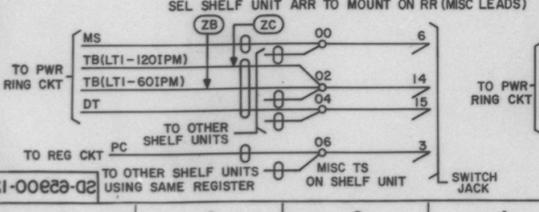
CAD 3 (A & M ONLY)



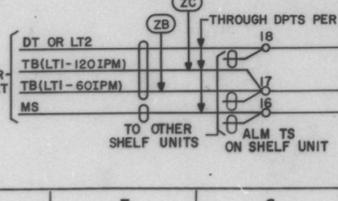
CAD 9 (A & M ONLY)



CAD 11 (A & M ONLY)



CAD 12



204. THE BASIC PATTERN OF THE SELECTOR BANK MULTIPLE TRUNK GRADING TERMINAL STRIPS IS SHOWN ON THE DISTRIBUTING FRAME TYPICAL EQUIPMENT DRAWING. ONE ROW IS ASSIGNED ON THE TERM. STRIP TO EACH SELECTOR SHELF ON A "PER LEVEL" BASIS. THESE ROWS ACCOMMODATE THE "T", "R" AND "S" LEADS OF CIRCUITS 1 AND 2. SIMILARLY, ONE ROW PER SELECTOR SHELF IS ASSIGNED TO "T", "R" AND "S" LEADS OF CIRCUITS 3 AND 4, AND TO CIRCUITS 5 AND 6, ETC., UP TO CIRCUITS 9 AND 0, IF DESIRED. THE CIRCUITS ARE STRAPPED LENGTHWISE OF THE TERMINAL STRIP, AS REQUIRED, AND JUMPED FROM THE LEFT ROW OF EACH BLOCK OF TERMINALS TO THE SUCCEEDING CIRCUIT IN THE SWITCH TRAIN.

205. WHEN INTERCEPT SERVICE IS NOT SPECIFIED THE FIRST TERMINAL OF EACH LEVEL SHALL ALSO BE MADE BUSY.

206. 197FN SWITCHES EQUIPPED WITH "H" OPTION MAY BE MODIFIED FOR "S" OPTION BY REPLACING NORMAL POST SPRING ASSEMBLY WITH NORMAL POST CAM ASSEMBLY WITH THE FOLLOWING PARTS: NORMAL POST SPRING ASSEMBLY P-15A430, NORMAL POST CAM ASSEMBLY P-11A039, 63AD RESISTOR. THESE PARTS SHALL BE FURNISHED AND INSTALLED LOCALLY.

EQUIPMENT NOTES:
201. ALL CONNECTIONS ARE TO BE MADE TO INNER NOTCH UNLESS OTHERWISE SPECIFIED.
202. ALL 740E PBX SHELF UNITS ARE WIRED UNIVERSAL FOR USE WITH REGULAR SELECTOR OR INCOMING SELECTORS. THE SEL BANK MULT TRUNK GRADING TERM. STRIPS PER CAD 15 PROVIDE A CONVENIENT MEANS FOR ASSIGNING CIRCUITS TO SELECTOR TRUNKS ON A GRADED MULTIPLE BASIS. THE TRUNKS ARE GROUPED BY LEVELS AT THE H-CDF AND CORRESPONDING TERMINALS OF ASSOCIATED "DIVISIONS" ARE STRAPPED TOGETHER TO FORM "SUBGROUPS" THESE ARE CUT TO ESTABLISH "SUBGROUPS" OF SELECTORS TO SUIT TRAFFIC REQUIREMENTS. WHERE REVERSALS ARE DESIRED IN A SUBGROUP, THE STRAPS ARE CUT AND THE REVERSAL MADE WITH LOCAL JUMPER LOOPS. USUALLY THE HIGHER NUMBERED TERMINALS OF EACH LEVEL ARE NOT WIRED TO GRADING TERMINAL STRIPS, TO MINIMIZE THE EXPENSE OF THIS ARRANGEMENT. THE HIGHER NUMBERED LEVELS, FOR EXAMPLE, LEVELS 6 TO 0, MAY BE CABLED IN A FIXED MANNER WITH THE REVERSALS MADE IN THE CABLEING BETWEEN ASSOCIATED SELECTOR SHELVES, AS INDICATED IN CADS 14 AND 15.

DIGIT ABSORBING SELECTOR CIRCUIT

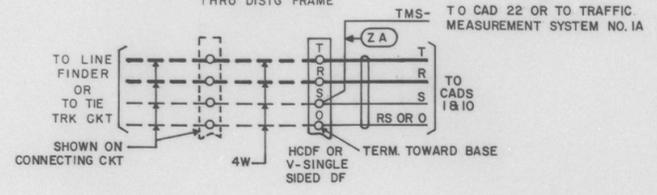
BELL TELEPHONE LABORATORIES, INC. SD-65900-012

DRAWING ISSUE
1 REV
2B
3D
4D
5D
6D
7D
8D
9D
WORN DRAWING REPRODUCED WITHOUT CHANGE 4-17-67
EWE
ICD
HPS
RHP

DRAWING	ISSUE
6D	REV. 1
7D	REV. 2
8D	REV. 3
9D	REV. 4
10D	REV. 5
11D	REV. 6
12D	REV. 7
13D	REV. 8
14D	REV. 9
15D	REV. 10
16D	REV. 11
17D	REV. 12
18D	REV. 13
19D	REV. 14
20D	REV. 15

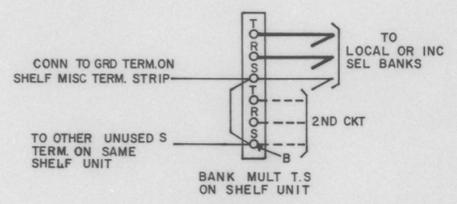
CAD 19 (A&M ONLY FOR 701A & 711A)

701A, 711A & 701B, 711B
SW JK CONNECTED
THRU DISTG FRAME



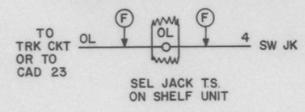
CAD 20

701B & 711B
METHOD OF MAKING BUSY UNUSED SEL TERM. NOT CABLED TO THE DISTG FRAME, THE FIRST TERM. OF EACH UNUSED LEVEL CONNECTED TO AN INTERCEPT TRK
SEL SHELF MOUNTED ON SW FRAME OR RR
SEE NOTE 205



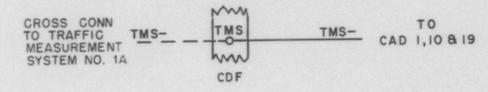
CAD 21

701B & 711B
SEL SHELF UNIT ARRANGED TO MOUNT ON SWITCH FRAME OR RELAY RACK
SEL JACK TS. ON SHELF UNIT



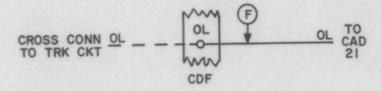
CAD 22 (A&M ONLY FOR 701A & 711A)

701A, 701B, 711A, 711B
LEADS TO TRAFFIC MEASUREMENT SYSTEM NO. 1A



CAD 23

701B & 711B
CROSS CONN TO TRK CKT



20-62200-013

DIGIT ABSORBING SELECTOR CIRCUIT SD-65900-013
BELL TELEPHONE LABORATORIES, INC. 8S PRINTED IN U.S.A.

ISSUE 12D