

(5) 197AJ SWITCH
MODIFIED PER NOTE 10(2A) 197JT SWITCH
SEE NOTE III(H) 197AJ SWITCH
242A PLUG
544 JACK

CIRCUIT NOTES:

DESIG	AMP	POTENTIAL FUSED	ONE PER
1-1/3	48V SIG	FIG. 1 (701A, 711A OR 740E)	
3	48V SIG	3 FIGS. 11701E, 701PK, 711B OR 711PK	

102.

FEATURE OR OPTION	FIG.	APP OR WIR	QUANTITY
FIRST SELECTOR CIRCUIT (SEE NOTE II, 120R13)	1		1 PER SEL
BANK MULTIPLE	2		100 PER SHELF POS
TWO GRADES OF SERVICE RESTRICTION (SEE NOTES 112, 113)		ZB	
COMMON GROUP TOUCH TONE CALLING USING CONVERTER TRUNK		PROVIDED NOT PROVIDED	E F

103.

NETWORK VALUES			
NO.	CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	178A	150	1-1

104.

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	APP OR WIR
2D	W OR Z	W		Z	W
4D	M OR N	M		N	M
5D	RELAY			248B	222AU
9D	Y OR Z	Z		Y	Z
10D	U OR V	V	105	U	V
11D	X OR T	X		T	X
11D	R OR S	S	108	R, S	
12D	Q	R OR S	108	R	S
15D			109	FIG. 2	
16D	J OR K	K		J	K
21B	G OR H	H	102, 110	H	
24D	E OR F	F	102	E, F	
26B	A, B, ZA OR ZB	B, G OR H	110, 111, 112, 113, 107	ZA, ZB	G, A
	ZC OR ZD	ZC		ZD	ZC

CIRCUIT NOTES: (CONT)

105. THE DIFFERENCE BETWEEN THE WIRING ARRANGEMENT OF THE (2) RELAY IS:



106. NORMAL POST SPRINGS 1 AND 2 SHALL CLOSE ON THE 9TH LEVEL ONLY UNLESS OTHERWISE SPECIFIED. THE NORMAL POST SPRINGS MAY BE ARRANGED TO CLOSE ON THE 8TH AND 9TH LEVELS; ON THE 7TH, 8TH AND 9TH LEVELS; OR ON THE 6TH, 7TH, 8TH AND 9TH LEVELS.

107. FOR "H" OPTION: THE NORMAL POST CAM MAY BE ARRANGED TO OPERATE THE SPRINGS ON ANY LEVEL OR LEVELS FOR WHICH RESTRICTED SERVICE IS REQUIRED. TO FACILITATE MANUFACTURE AND INSTALLATION, ALL SELECTORS SHALL BE ADJUSTED IN THE SHOP TO OPERATE THESE SPRINGS ON THE NINTH LEVEL.

108. "R" OPTION IS FOR SOLDERED TYPE BANKS.
"Q" OPTION IS FOR CLINCHED TYPE BANKS.

109. PRIOR TO ISSUE 15D, "Q", "R" AND "S" OPTIONS WERE PART OF FIG. 1.

110. FOR "G" OPTION: PROVIDE NORMAL POST SPRING ASSEMBLY PER P-252931. ADJUST THE NORMAL POST CAM SO THAT SPRINGS 1L-2L MAKE ON ANY LEVEL OR LEVELS DENIED TO LINES MARKED FOR RESTRICTION AT THE STATION LINE CIRCUITS. ADJUST THE NORMAL POST CAM SO THAT SPRINGS 1R-2R MAKE ON ANY LEVEL OR LEVELS DENIED TO ALL LINES LOCATED ON A RESTRICTED SERVICE LEVEL OF THE LINE FINDER.

111. ZA OPTION ADDS A NEW SWITCH CODE 197JT SIMILAR TO 197AJ BUT WITH THE ADDITION OF RELEASE MAGNET SPRINGS AND TWO SETS OF POST SPRINGS. FIELD MODIFICATIONS TO CHANGE 197AJ SWITCHES TO THE NEW CODE 197JT MAY BE MADE PER D160389. OPTION A ADDS THE RLS MAGNET SPRINGS AND OPTION G ADDS THE NORMAL POST SPRINGS.

112. FIRST GRADE OF SERVICE RESTRICTION: ADJUST NORMAL POST SPRINGS 1L-2L TO MAKE ON ANY LEVEL OR LEVELS DENIED TO LINES MARKED FOR RESTRICTION AT THE STATION LINE CIRCUITS.

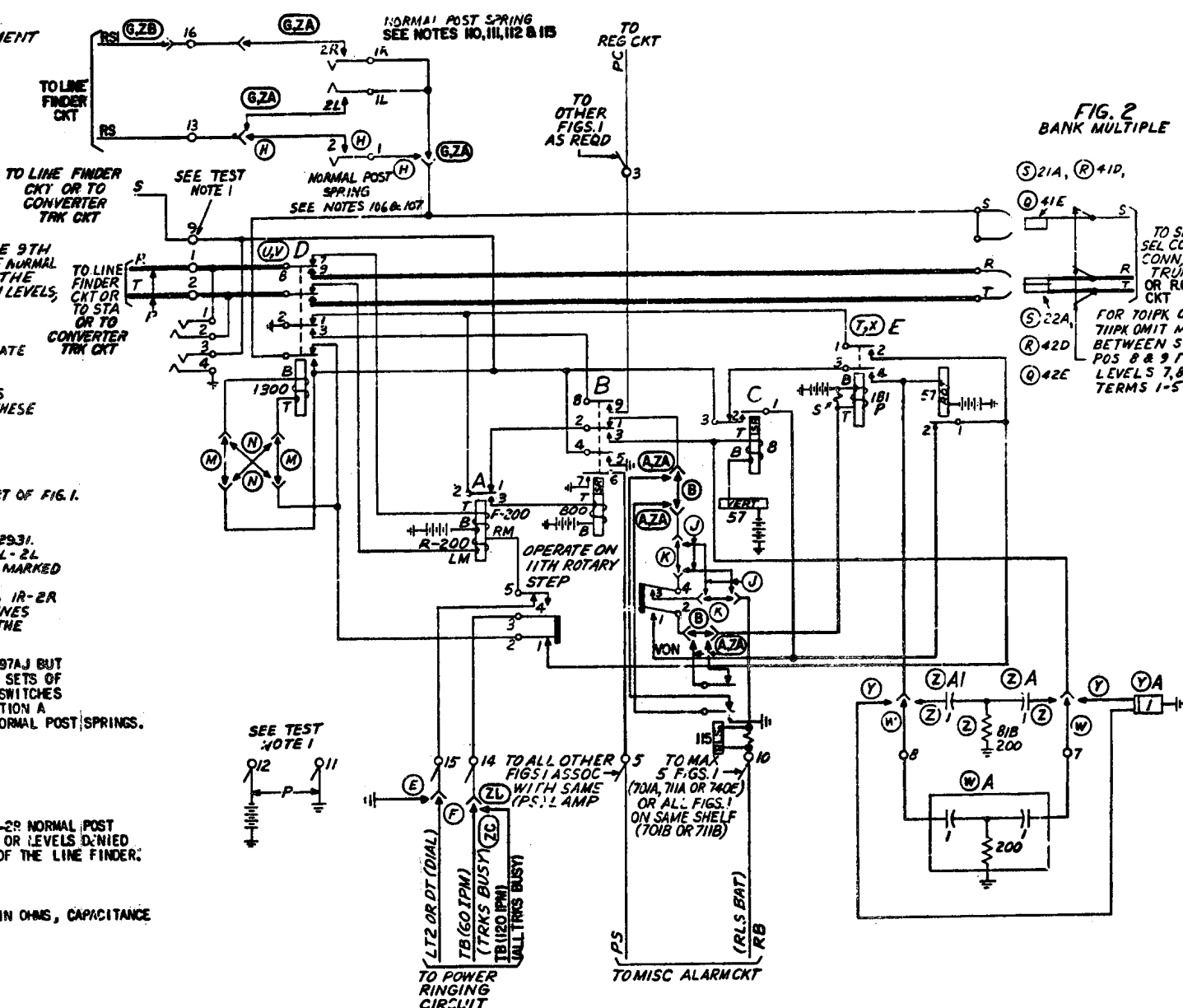
113. SECOND GRADE OF SERVICE RESTRICTION: PROVIDE ZB OPTION. ZB OPTION PROVIDES WIRING TO 1R-2R NORMAL POST SPRINGS. ADJUST 1R-2R SPRINGS TO MAKE ON ANY LEVEL OR LEVELS DENIED TO ALL LINES LOCATED ON A RESTRICTED SERVICE LEVEL OF THE LINE FINDER.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.

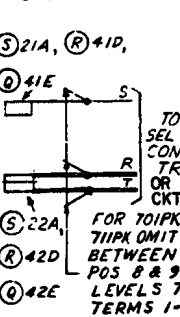
44-52V

WORKING LIMITS
PULSING FROM SUB.
MAX EXT CKT LOOP 750* 850* 1000***
MIN INS RES 15,000
* WHEN USING 1000.0 LOOP-LEAK "B" IN PULSING TEST SET.
** WHEN USING 1200.0 LOOP-LEAK "A" IN PULSING TEST SET.
*** WHEN USING 248 OR MOD 222 TYPE (B) POS. RELAY ON SWITCHES AND 1400.0 LOOP LEAK "A" IN PULSING TEST SET.

FIG. 1
FIRST SELECTOR CIRCUIT

FIGURES AND OPTIONS ON THIS DWG

CKT FIG.	APP OR WIRING
1	Z H
2	Y G
	X F
	W E
	V B
	U A
	T ZA
	S ZB
	R ZC
	Q ZD
	N
	M
	K
	J

FIG. 2
BANK MULTIPLE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

J58842A
J58831G
J58831F
J58831E
ED-66359-01
ED-66359-02
ED-66359-03
EQUIPMENT INFO.

REPLACES SD-66359-01

SD-66359-01

107

PBX SYSTEMS
NO. 701A, 701B, 701PK, 711A, 711B, 711PK OR 740E
FIRST SELECTOR CIRCUIT
ARRANGED FOR RESTRICTED SERVICE

AT&T CO
STANDARD
AGM ONLY FOR
701A, 711A AND 740E PBX

26

SD-66359-011
7 SHEETS

(1ST SEL)

BELL TELEPHONE LABORATORIES

6S

PRINTED IN U.S.A.

SD-66359-011

⑥ 197AJ SWITCH
MODIFIED PER NOTE 110

②A 197JT SWITCH
SEE NOTE III

⑧ 197AJ SWITCH
242A PLUG
344 JACK

CIRCUIT NOTES:

DESIG	AMP	POTENTIAL FUSED	ONE PER
1-1/3	48V SIG	FIG.1 (701A, 711A OR 740E)	
3	48V SIG	3 FIGS. 11, 1012, 701PK, 711B OR 711PK	

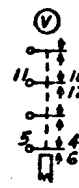
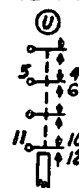
FEATURE OR OPTION	FIG.	APP OR WIR	QUANTITY
FIRST SELECTOR CIRCUIT (SEE NOTE III, 20113)	1		1 PER SEL
BANK MULTIPLE	2		100 PER ST. LF POS
TWO GRADES OF SERVICE RESTRICTION (SEE NOTES 112, 113)		ZB	
COMMON GROUP TOUCH TONE CALLING USING CONVERTER TRUNK		PROVIDED	E
		NOT PROVIDED	F

NETWORK VALUES			
NO.	CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	178A	150	1-1

104. 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
3D	W OR Z	W		Z		W
4D	M OR N	M		N		M
5D	RELAY			248B		222AU
9D	Y OR Z	Z		Y		Z
10D	U OR V	V	105	U		V
11D	X OR T	X		T		X
11D	R OR S	S	108	R, S		
12D	Q	R OR S	108	R		S
15D			109	FIG. 2		
16D	J OR K	K		J		K
21B	G OR H	H	110	H		G
24D	E OR F	F	102	E, F		
26B	A, B, ZA OR ZB	B, G OR H	110, 111, 112, 113, 107	ZA, GA		B
28D	Y OR ZE	Y		ZE		Y

CIRCUIT NOTES: (CONT)

105. THE DIFFERENCE BETWEEN THE WIRING ARRANGEMENT OF THE (D) RELAY IS:



106. NORMAL POST SPRINGS 1 AND 2 SHALL CLOSE ON THE 9TH LEVEL ONLY UNLESS OTHERWISE SPECIFIED. THE NORMAL POST SPRINGS MAY BE ARRANGED TO CLOSE ON THE 8TH AND 9TH LEVELS; ON THE 7TH, 8TH AND 9TH LEVELS; OR ON THE 6TH, 7TH, 8TH AND 9TH LEVELS.

107. FOR "H" OPTION: THE NORMAL POST CAM MAY BE ARRANGED TO OPERATE THE SPRINGS ON ANY LEVEL OR LEVELS FOR WHICH RESTRICTED SERVICE IS REQUIRED. TO FACILITATE MANUFACTURE AND INSTALLATION, ALL SELECTORS SHALL BE ADJUSTED IN THE SHOP TO OPERATE THESE SPRINGS ON THE NINTH LEVEL.

108. "R" OPTION IS FOR SOLDERED TYPE BANKS. "Q" OPTION IS FOR CLINCHED TYPE BANKS.

109. PRIOR TO ISSUE 15D, "Q", "R" AND "S" OPTIONS WERE PART OF FIG. 1.

A&M ONLY

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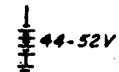
112. FIRST GRADE OF SERVICE RESTRICTION: ADJUST NORMAL POST SPRINGS 1L-2L TO MAKE ON ANY LEVEL OR LEVELS DENIED TO LINES MARKED FOR RESTRICTION AT THE STATION LINE CIRCUITS.

113. SECOND GRADE OF SERVICE RESTRICTION: PROVIDE ZB OPTION. ZB OPTION PROVIDES WIRING TO 1R-2R NORMAL POST SPRINGS. ADJUST 1R-2R SPRINGS TO MAKE ON ANY LEVEL OR LEVELS DENIED TO ALL LINES LOCATED ON A RESTRICTED SERVICE LEVEL OF THE LINE FINDER.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS, CAPACITANCE VALUES ARE IN MICROFARADS.

INFORMATION NOTES CONT ON SHEET -012.



WORKING LIMITS

PULSING FROM SUB.

MAX EXT CKT LOOP 750* 850** 1000***
MIN INS RES 15,000

* WHEN USING 1000Ω LOOP-LEAK "B" IN PULSING TEST SET.
** WHEN USING 1200Ω LOOP-LEAK "A" IN PULSING TEST SET.
*** WHEN USING 248 OR MOD 222 TYPE (B) POS RELAY ON SWITCHES AND 1400Ω LOOP LEAK "A" IN PULSING TEST SET.

10-66359-DS

FIG. 1
FIRST SELECTOR CIRCUIT

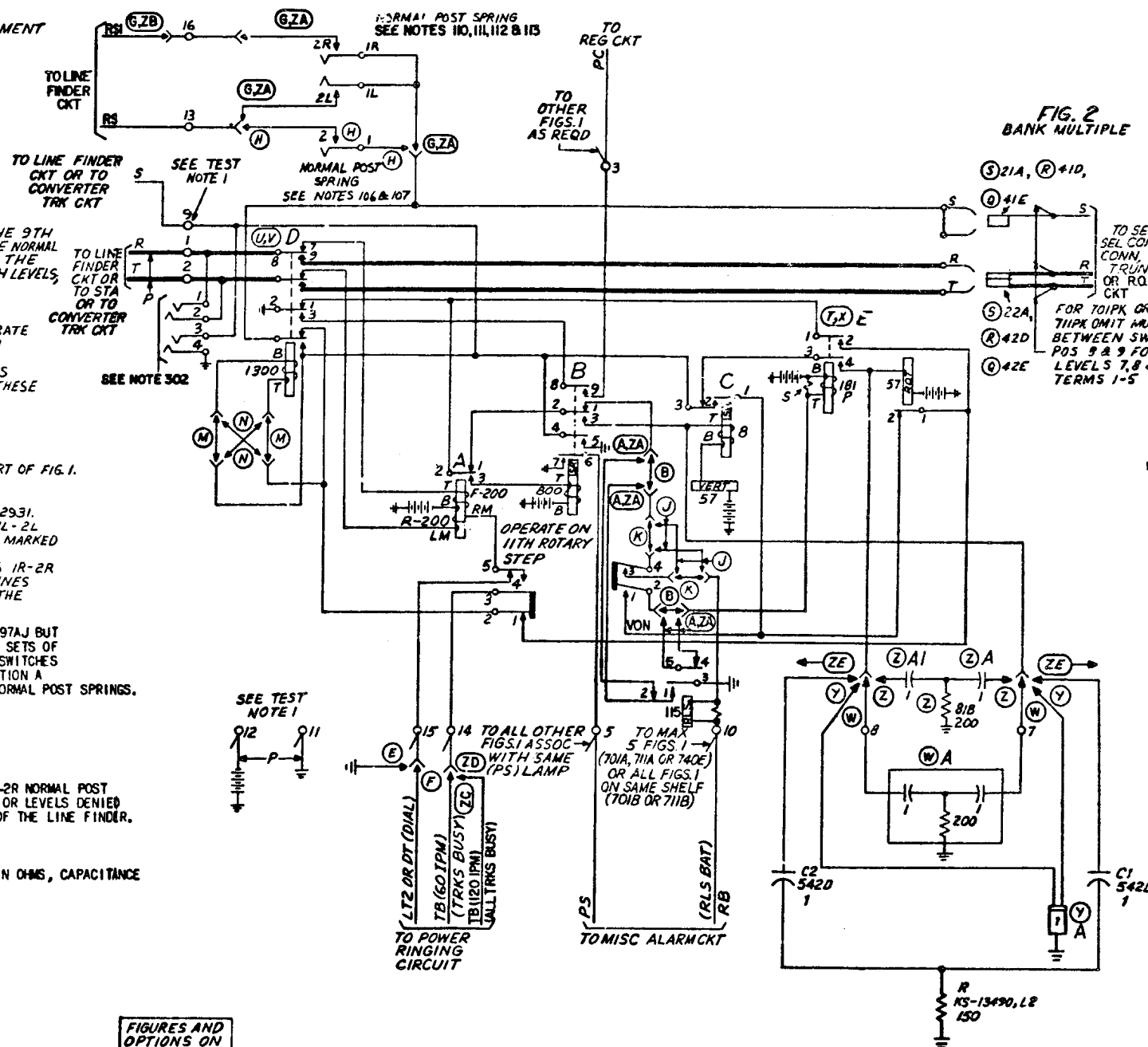


FIG. 2
BANK MULTIPLE

⑤ 21A, ⑥ 41D,

⑤ 22A, ⑥ 42D,

⑤ 22E, ⑥ 42E

TO SEL. SEL. CONN. TRUNK OR RQTS. CKT

FOR 701PK OR 711PK OMIT MULT. BETWEEN SW POS 9 & 9 FOR LEVELS 7, 8 & 9, TERMS 1-5

TO POWER RINGING CIRCUIT

TO MISC ALARM CKT

TO REG CKT

TO OTHER FIGS. 1 AS REQD

TO LINE FINDER CKT OR TO CONVERTER TRK CKT

TO LINE FINDER CKT

TO LINE FINDER CKT

TO LINE FINDER CKT

TO LINE FINDER CKT

TO LINE FINDER CKT

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REPLACES SD-66139-01

SD-66359-01

W07

PBX SYSTEMS
NO. 701A, 701B, 701PK, 711A, 711B, 711PK OR 740E
FIRST SELECTOR CIRCUIT
ARRANGED FOR RESTRICTED SERVICE

②

SD-66359-011
7 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

(1ST SEL)

6S

J58823J
J58823F
J58801D
J58842B
J58842A
J58834G
J58831F
J58831E

SD-66359-01
EQUIPMENT INFO.

ISSUE

280

AT&T CO
STANDARD
A&M ONLY FOR
701A, 711A AND 740E PBX

SD-66359-01

CIRCUIT REQUIREMENTS

NO. 7C1A, 701B, 707K, 711A, 711B, 711PK OR 740E PBX 1ST SELECTOR (1ST SEL)

APPARATUS				MECH. REST.				CIRCUIT PREPARATION				DIRECT CURRENT FLOW TEST				TIME REQ.		REMARKS							
DESIG.	CODE	OPTION	FIB.	RES. 19	BSP. 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.		TEST SEC.	READJ. SEC.					
									CONN. BAT.	CONN. GRD.											SA.	NA.	SA.	SEC.	SEC.
RELAYS																									
A	221A		1	7-11	11		8	(B)NO	TST JK 2	TST JK 1	M	3	F/K	U	FS	13.1	14.8								
								(6)NO	TST JK 2	TST JK 1	M		F/R	NO	FS	13.9	14.4								
B	222AU		1	SL	54		12	1(A)		3(A)	GRD	7		O	FS	8.3	7.9								
								1(A)		3(A)	GRD	7		NO	FS	6.9	7.3								
									TST JK 1	TST JK 2	V-BR	10/11		H				.300							
									TST JK 1	TST JK 2	V-BR	11		R				.750	.500						
								1(A)		3(A)	GRD	11		NO	FS	6.9	7.3								
B	222AU MOD		1	1.5-4	502		27	1(A)		3(A)	GRD	7/12		O	FS	9.8	9.3								
				MIN 1.5				1(A)		3(A)	GRD	7		NO	FS	7.7	8.2								
									TST JK 1	TST JK 2	V-BR	11/13		H				.450							
									TST JK 1	TST JK 2	V-BR	11		R				.750	.500						
										3(A)	GRD	11		NO	FS	7.7	8.2								
B	248B		1	1.5-4	502		27	1(A)		3(A)	GRD	7		O	FS	10.5	10								
				MIN 1.5				1(A)		3(A)	GRD	7		NO	FS	8.5	9								
									TST JK 1	TST JK 2	V-BR	11/13		H				.333							
								1(A)		3(A)	GRD	11		R				.750	.500						
										3(A)	GRD	11		NO	FS	8.5	9								
C	221CD		1	S-4	901		15			3(B)	GRD	4/7		O	500	90	85								
										3(B)	GRD	7		NO	500	65	69								
									TST JK 1	TST JK 2	V-H	11/14		H				.100							
									TST JK 1	TST JK 2	V-H	11		R				.155	.140						
										3(B)	GRD	11		NO	500	65	69								
D	222HM		1	E-4	332		15	SEE REMARKS		BAT.	2/9			O	FS	27	25.5								
										BAT.	2/5/9			NO	FS	20.5	22								
										BAT.	B			NO	FS	12	12.7								
E	221C	X	1	4-8	1		13		2(VON)	GRD	6			O	FS	105	100								
				7-9	700		16		2(VON)	GRD	6			NO	FS	85	90								
									2(VON)	GRD				O	FS	105	100								
									2(VON)	GRD				NO	FS	85	90								
E	221NL	T	1	7-9	700		16		2(VON)	GRD	6			O	FS	105	100								
									2(VON)	GRD				NO	FS	85	90								

TST-CONT SEP MIN 3. CONT PRESS. SPGS 243 MIN 10 GRAMS

APPLY BAT. TO SPG 2 OF THE 11TH ROT. STEP SPRINGS

ADJ A (WFR DISC) SUPERSEDED BY ADJ B. ADJ B SUPERSEDED ADJ A

- TEST NOTES:
1. JACK SPRINGS 9 AND 11 SHALL MAKE CONTACT WHEN SWITCH IS REMOVED FROM FRAME.

2. SHORT CIRCUIT SPRINGS 3 AND 4 OF THE TEST JACK.

3. ARMATURE NEED NOT TOUCH CORE ON OPERATE CURRENT. CONTACT FOLLOW ON MAKE CONTACT - MIN 8. CONTACT SEPARATION ON ALL CONTACTS - MIN 3.

4. CONTACT PRESSURE SPRINGS 2 AND 3 MIN 10 GRAMS. CONTACT SEPARATION MIN. 3.

5. CONTACTS 1-2 AND 4-5 MAY BREAK ON THE NON-OPERATE CURRENT.

6. ARMATURE NEED NOT TOUCH CORE ON OPERATE CURRENT.

7. FOR USE WHEN TIME REQ ARE NOT APPLIED.

8. ON THIS VALUE NO SPRINGS SHALL BREAK.

9. PRIOR TO ISSUE 100 ADJ WAS:
0 23 21.3
NO 17 18

10. TEST HOLD - USE 1200 OHM LOOP IN PULSING TEST SET.

11. FOR USE WHEN TIME REQ ARE APPLIED.

12. MODIFIED RELAY HAS 1:1 RATIO ARMATURE.

13. TEST HOLD - USE 1400 OHMS LOOP IN PULSING TEST SET.

14. TEST HOLD - USE LEAK A IN PULSING TEST SET.

FIRST SELECTOR CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SD-66359-012

FIRST SELECTOR CIRCUIT

BELL TELEPHONE LABORATORIES, INC

SD-66359-012

65

26

FOR 740E PBX ONLY

FIG. 51 (A&M ONLY)

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON SEL FRAME - BANK MULTIPLE
SEE NOTE 201

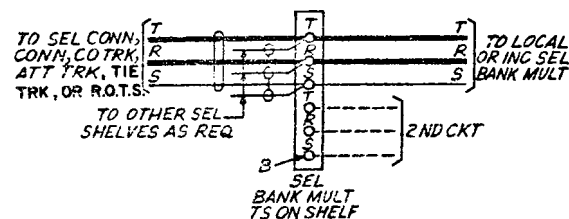


FIG. 52 (MFR DISC.)

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON SEL FRAME - SWITCH JACK
SEE NOTE 201
SEE FIG. 80 FOR TOUCH TONE CALLING

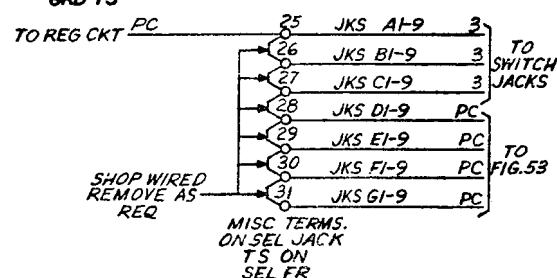
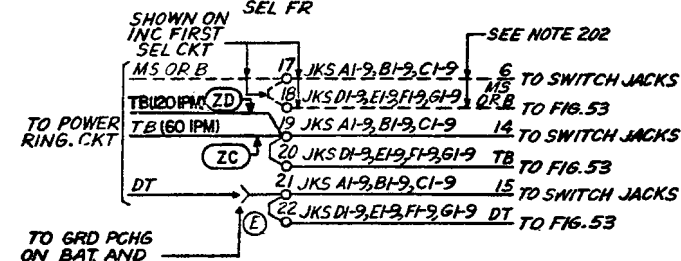
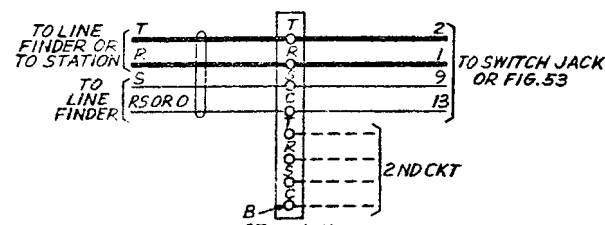
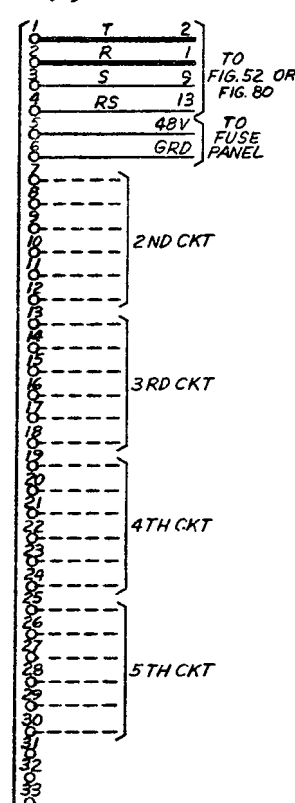


FIG. 53 (MFR DISC.)

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON SEL FRAME - SWITCH JACKS -
FRAME WIRING - SHELVES
D, E, F AND G



TO FIG. 54

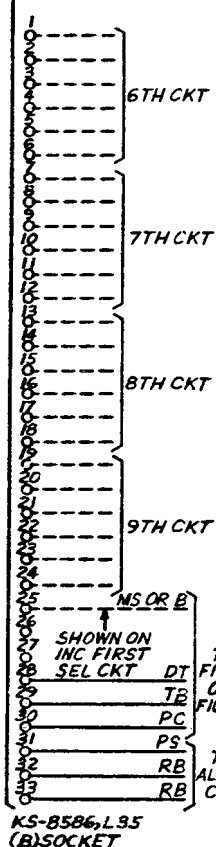
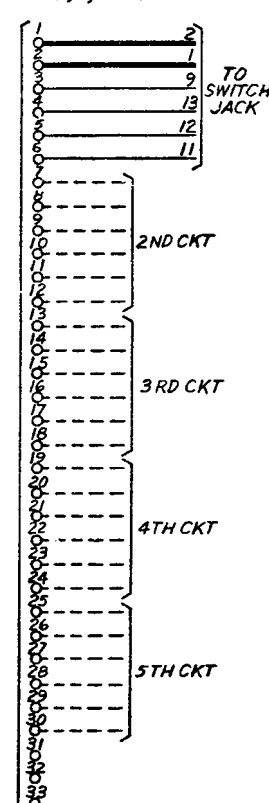


FIG. 54 (A&M ONLY)

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON SEL FRAME - SWITCH JACKS -
SHELF WIRING - SHELVES
D, E, F AND G



TO FIG. 53

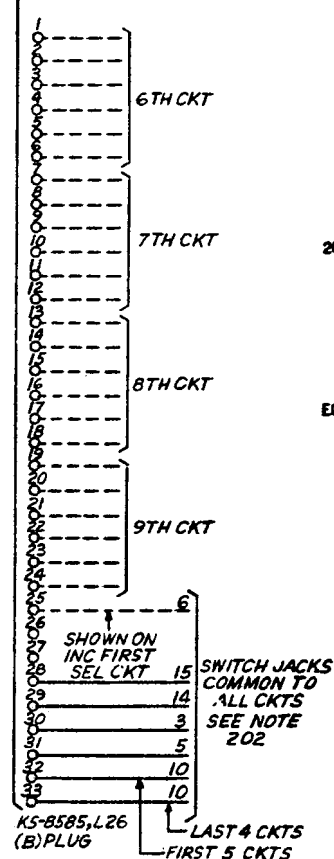


FIG. 55

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON RR-BANKS

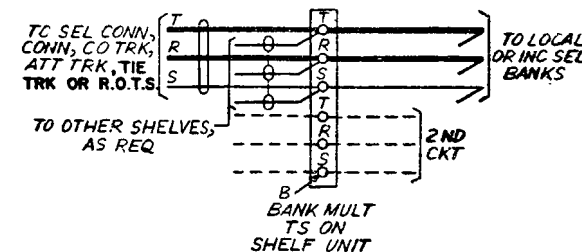


FIG. 56

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON RR-SWITCH JACKS
SEE NOTES 206 & 207
SEE FIG. 81 FOR TOUCH TONE CALLING

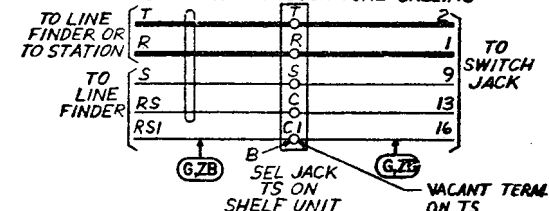
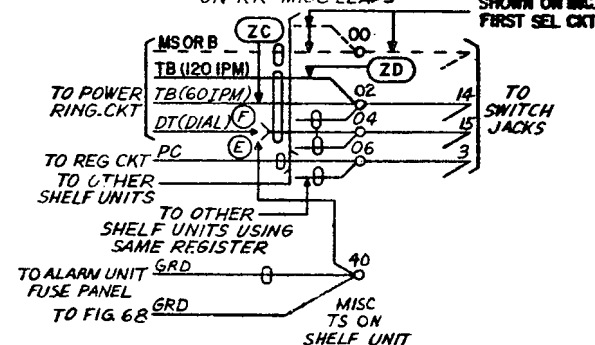


FIG. 57

(740E)
SEL SHELF UNIT ARR TO MOUNT
ON RR-MISC LEAPS



200. THE SELECTOR BANK MULTIPLE GRADING TERMINAL STRIPS PER FIGS. 74 AND 75 PROVIDE A MEANS FOR ARRANGING SELECTORS, TRUNKS OR CONNECTORS ON A GRADED MULTIPLE BASIS FOR LEVELS 7, 8 OR 9. THE CORRESPONDING BANK TERMINALS ARE GROUPED BY LEVELS AT THE DF TO FORM A "DIVISION" AND ARE STRAPPED TOGETHER, LENGTHWISE OF THE TERMINAL STRIP TO FORM A "SUB-GROUP" TO MEET TRAFFIC REQUIREMENTS.

EQUIPMENT NOTES CONT. ON SH-016.

EQUIPMENT NOTES:

201. ALL CONNECTIONS ON 740E TS ARE TO BE MADE TO INNER NOTCH UNLESS OTHERWISE SPECIFIED.
202. ALL SHELVES ARE WIRED UNIVERSAL FOR USE WITH FIRST SELECTOR OR INCOMING SELECTORS.
203. THE SELECTOR BANK MULTIPLE GRADING TERMINAL STRIPS PER FIG. 62 PROVIDE A MEANS FOR ARRANGING SELECTORS, TRUNKS OR CONNECTORS ON A GRADED MULTIPLE BASIS. THE CORRESPONDING BANK TERMINALS ARE GROUPED BY LEVELS AT THE HODF TO FORM A "DIVISION" AND ARE STRAPPED TOGETHER, LENGTHWISE OF THE TERMINAL STRIP, TO FORM A "SUB-GROUP" TO MEET TRAFFIC REQUIREMENTS. WHERE REVERSALS ARE REQUIRED IN A SUB-GROUP, THE STRAPS ARE CUT AND THE REVERSAL MADE WITH A LOCAL JUMPER LOOP. USUALLY, THE HIGHER NUMBERED TERMINALS OF EACH LEVEL ARE NOT WIRED TO GRADING TERMINAL STRIPS; FOR EXAMPLE, TERMINALS 6 TO 9 MAY BE CABLED IN A FIXED MANNER WITH THE REVERSALS MADE. THE CABLED BETWEEN THE ASSOCIATED SELECTOR SHELVES, AS INDICATED IN FIG. 67.
204. THE BASIC PATTERN OF THE SELECTOR BANK MULTIPLE TRUNK GRADING TERMINAL STRIPS IS SHOWN ON THE DISTRIBUTING FRAME TYPICAL EQUIPMENT DRAWING. THE TERMINALS ARE ASSIGNED ON THE TERMINAL STRIP TO THE CORRESPONDING BANK TERMINALS OF EACH SELECTOR SHELF ON A "PER LEVEL" BASIS. THESE ROWS ACCOMMODATE THE "T", "R" AND "S" LEADS OF CIRCUITS 1 AND 2. SIMILARLY, THE TERMINALS ARE 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.
205. WHEN INTERCEPT SERVICE IS NOT SPECIFIED THE FIRST TERMINAL OF EACH LEVEL SHALL ALSO BE MADE BUSY.
206. WITH "G" OPTION, THE "RS1" TERMINALS OF THE SWITCH JACKS ON THE 1ST SELECTOR AND LINE FINDER SHALL BE CONNECTED BY MEANS OF LOOSE WIRE VIA JACK TERMINAL STRIP.
207. WHEN TWO CLASSES OF SERVICE RESTRICTION ARE REQUIRED, THE ADDITIONAL TERMINALS REQUIRED FOR THE C1 LEAD SHALL BE OBTAINED FROM THE PRESENTLY AVAILABLE SPARE TERMINALS ON THE SELECTOR TERMINAL STRIP.
208. WHEN TWO CLASSES OF RESTRICTION ARE REQUIRED, THE ADDITIONAL TERMINAL REQUIRED FOR THE C1 LEAD SHALL BE PROVIDED LOCALLY TO MEET JOB CONDITIONS.

FIRST SELECTOR CIRCUIT

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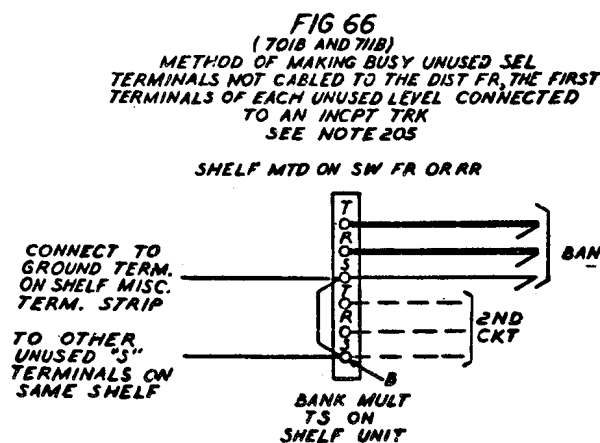
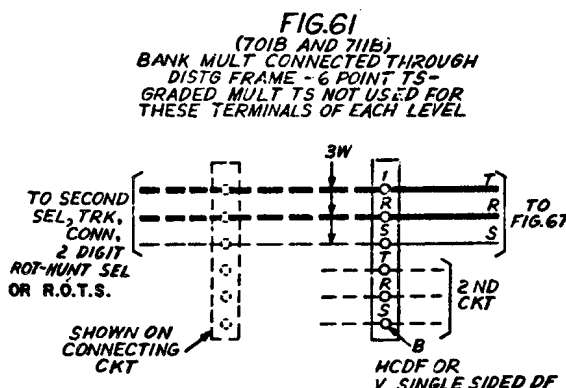
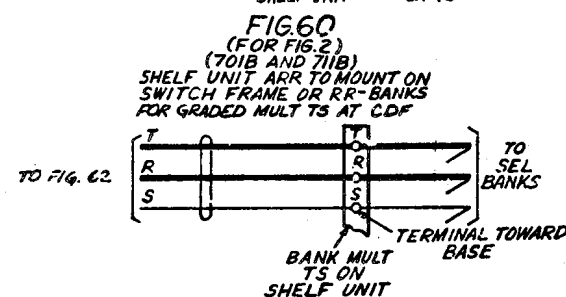
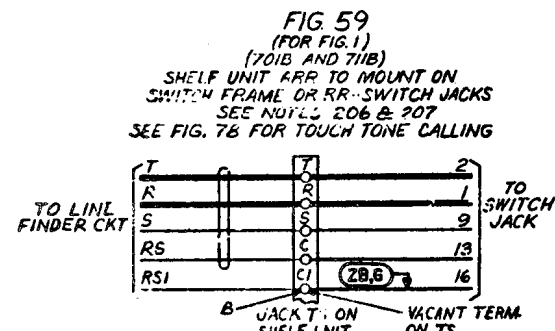
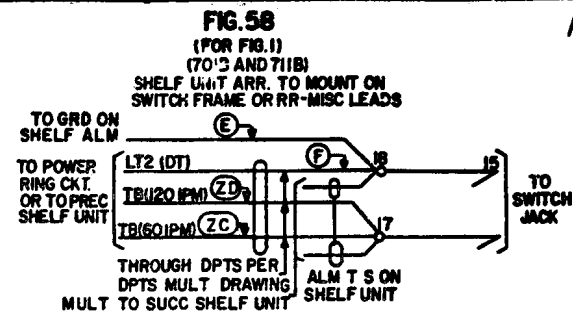
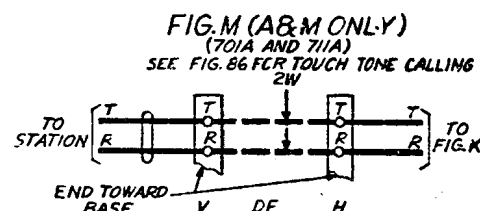
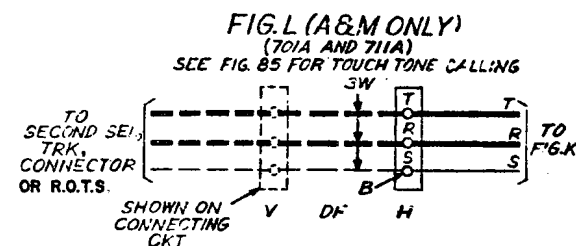
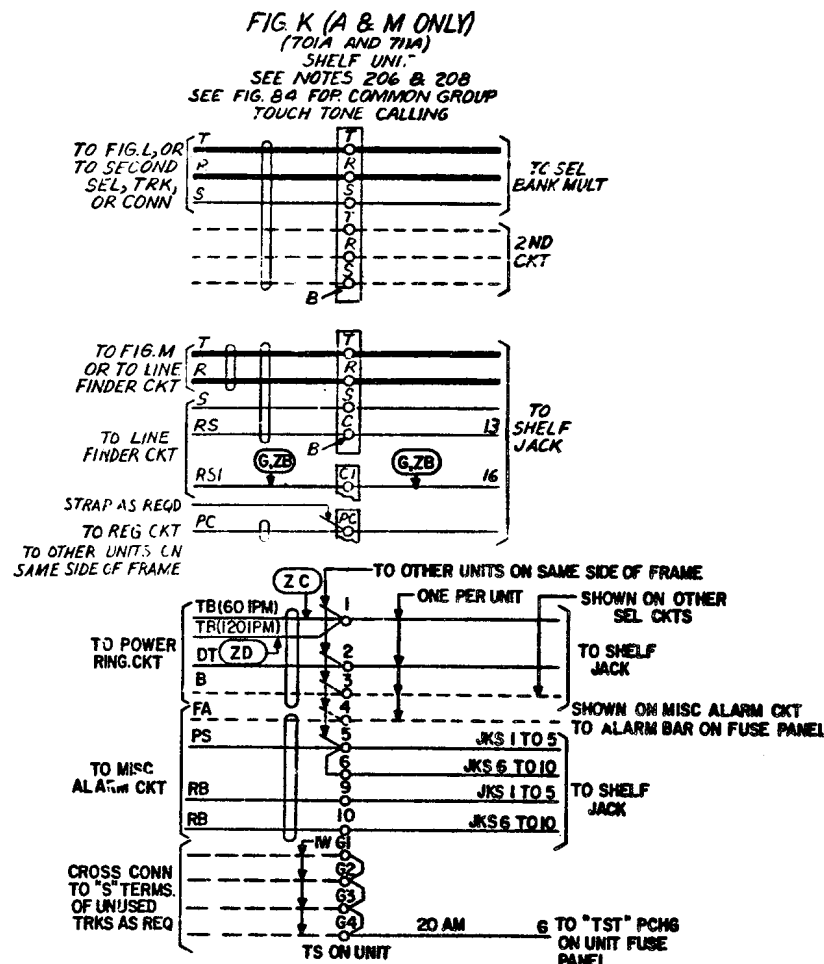
BELL TELEPHONE LABORATORIES

65

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26



FOR 701 TYPE PBX ONLY

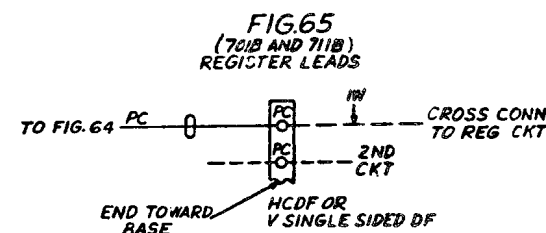
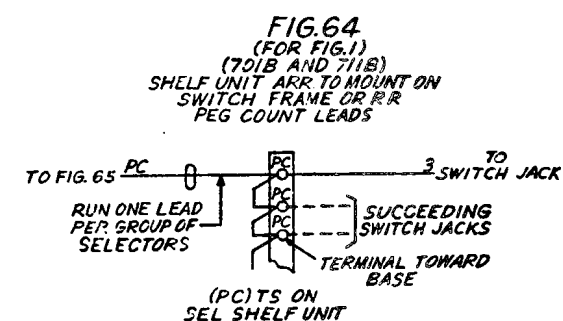
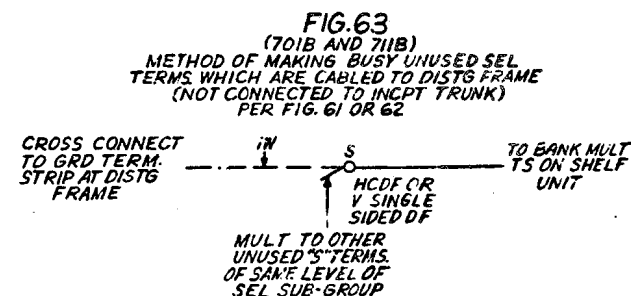
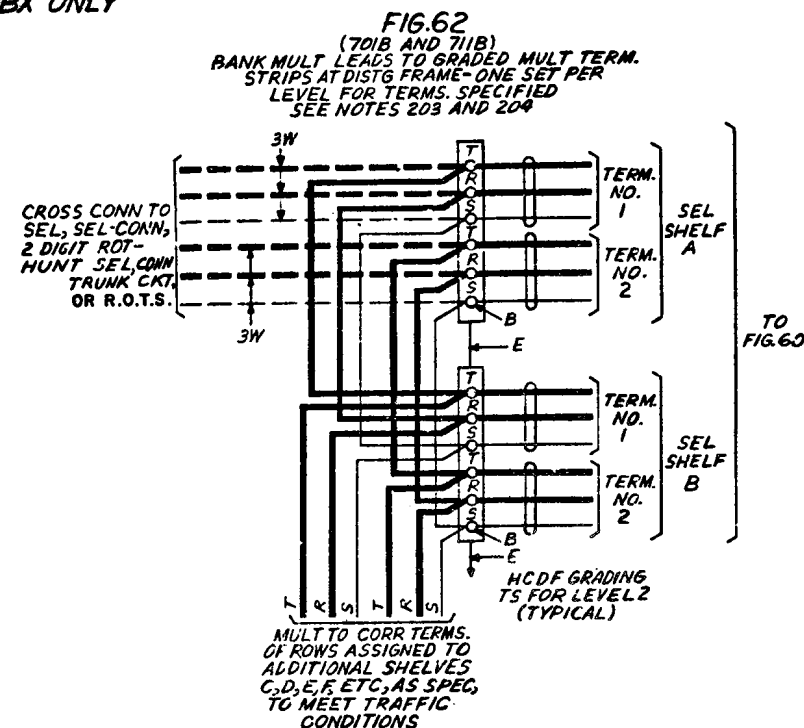


FIG. 67
(FOR FIG. 2)
701B AND 711B PBX
INITIAL SEL SHELF UNIT
WITH TWO SEL SHELVES
TO PROVIDE GRADED MULT. BETWEEN SHELVES

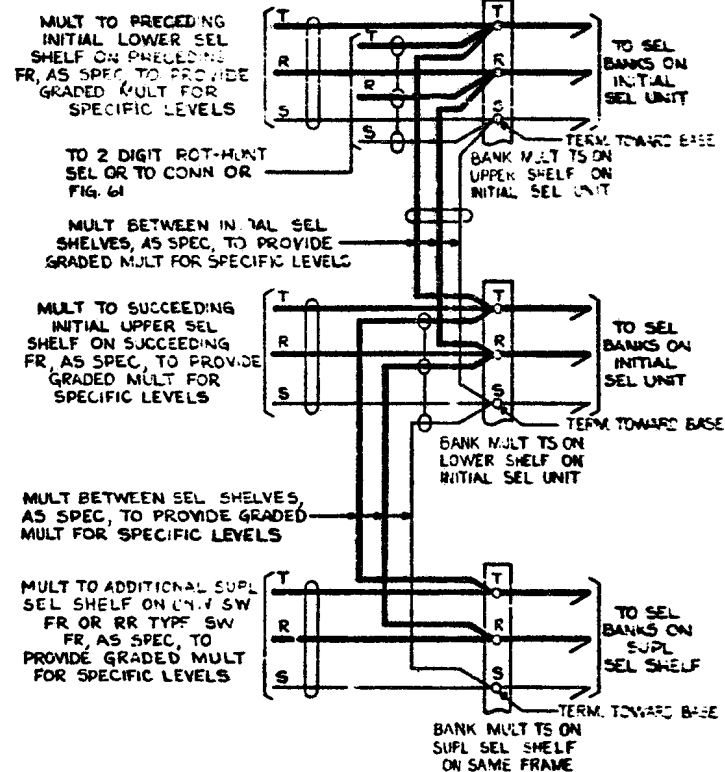


FIG. 69
(FOR FIG. 1) (701PK & 711PK)

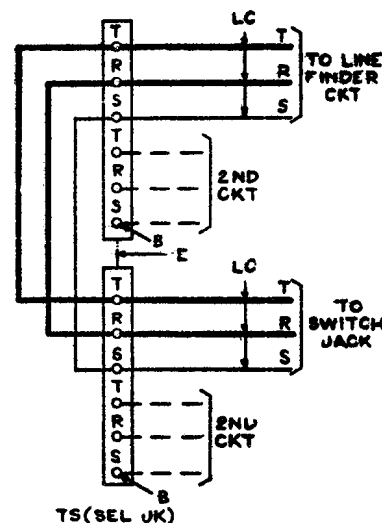


FIG. 70
(FOR FIG. 1) (701PK & 711PK)
1ST MODULE

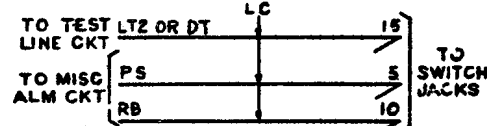


FIG. 68
(740E)
SEL SHELF UNIT
ARR. TO MOUNT ON RR BANKS
METHOD OF MAKING BUSY
UNUSED SELECTORS
SEE NOTE 205

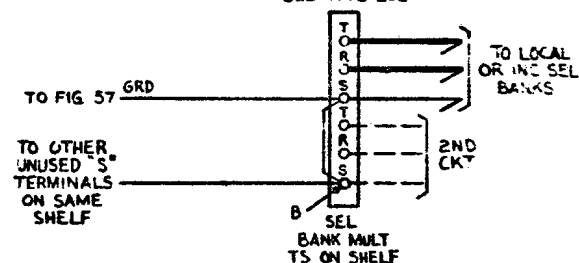


FIG. 71
(FOR FIG. 1) (701PK & 711PK)
1ST MODULE

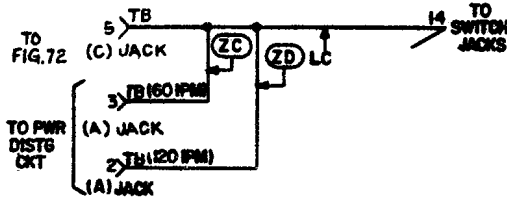


FIG. 72
(FOR FIG. 1) (701PK & 711PK)
2ND MODULE

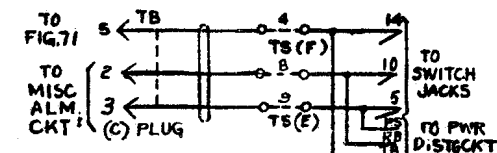


FIG. 73
METHOD OF MAKING BUSY
UNUSED SEL TERMS (NOT CONNECTED TO
INCPY TRK)

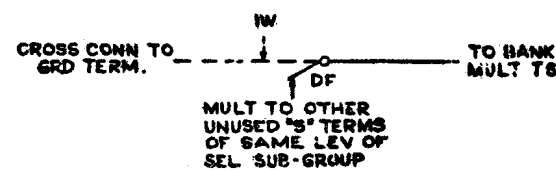


FIG. 74
(701PK & 711PK)
BANKS MULT LEADS TO GRADED
MULT TERM. STRIP AT DISTG FRAME
SEE NOTE 209

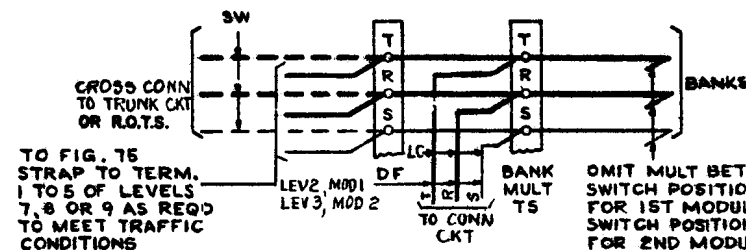


FIG. 75
(701PK & 711PK)
BANK MULT LEADS FOR LEVELS
7, 8 & 9, TERM 1-5, TO GRADED
MULT TERM. STRIP AT DISTG FRAME
SEE NOTE 209.

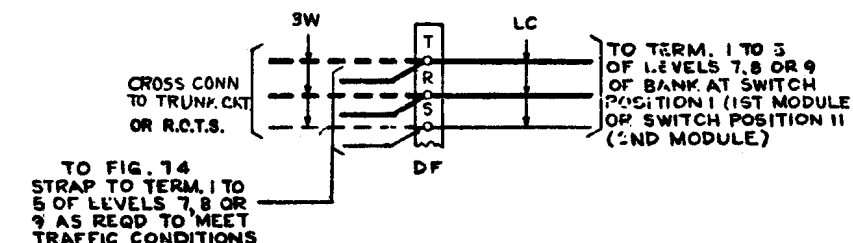


FIG. 76
(701PK & 711PK)
BANK MULT CONN THROUGH DISTG FRAME - 6 POINT TS

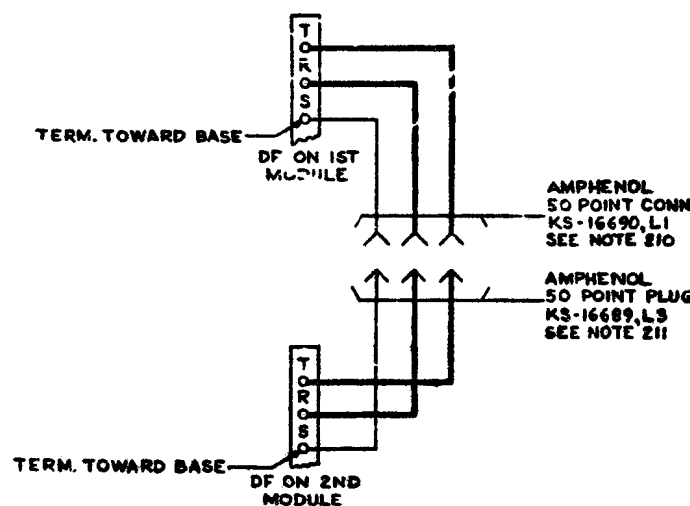


FIG. 77
(701PK & 711PK)
REGISTER LEADS

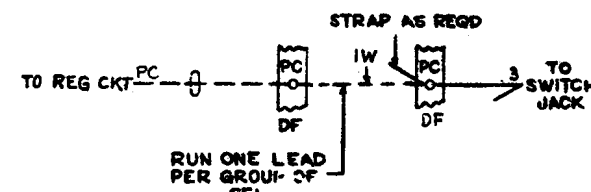


FIG. 78
FOR FIG. 1
(701B & 711B)
SHELF UNIT ARRANGED TO MOUNT ON SWITCH
FRAME OR R.R. - SWITCH JACKS FOR COMMON
GROUP TOUCH TONE APPLICATION
SEE NOTES 206, 207 & 212

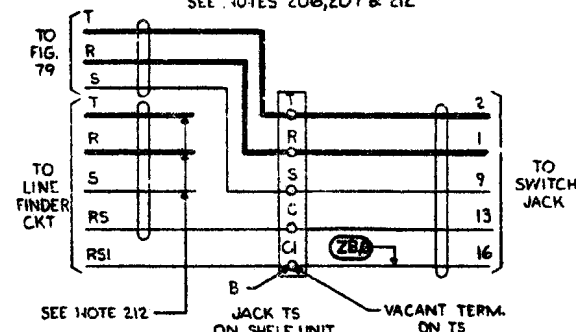


FIG. 79
(701B, 711B & 740E)
METHOD OF CONNECTING SEL JACK
TO CONVERTER TRUNK CKT

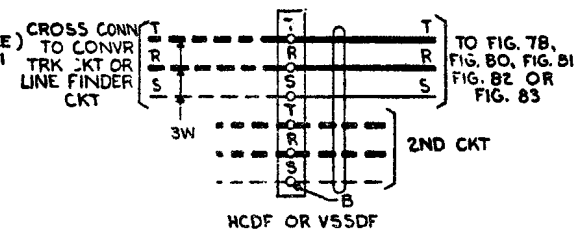
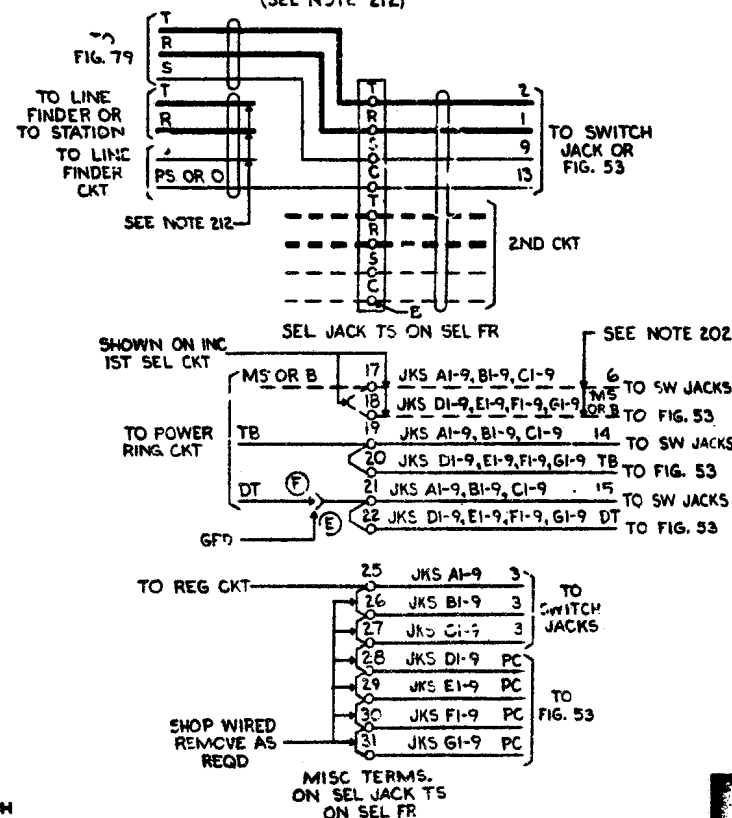


FIG. 80 (MFR DISC.)

SEL SHELF UNIT ARR. TO MOUNT ON SEL FRAME - SWITCH
JACK FOR COMMON GROUP TOUCH TONE APPL
(SEE NOTE 212)

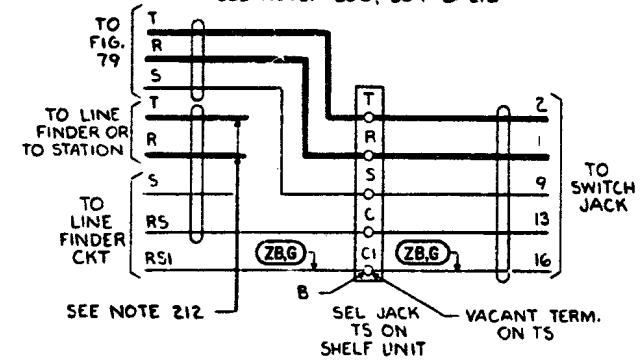
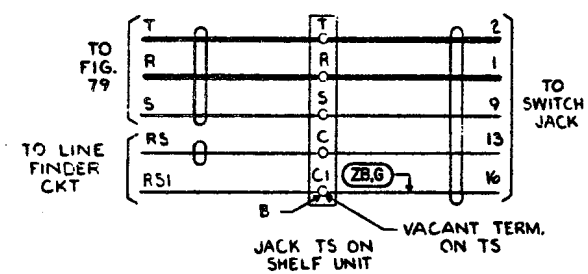
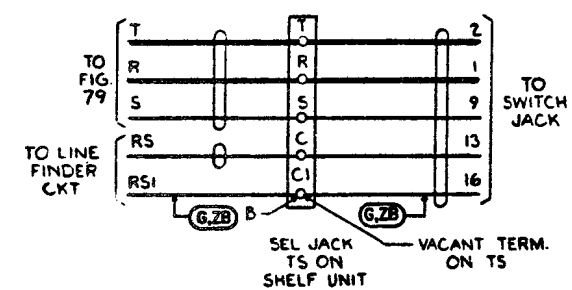


EQUIPMENT NOTES: (CONT)

210. CF-15073 CABLE E/W 4 K5-16690, L1 CONNECTORS

BLUE BINDER				ORANGE BINDER				GREEN BINDER				BROWN BINDER			
CABLE	AMPHENOL	LEAD DESIG &		CABLE	AMPHENOL	LEAD DESIG &		CABLE	AMPHENOL	LEAD DESIG &		CABLE	AMPHENOL	LEAD DESIG &	
COLOR	PAIR	50 POINT JACK	T.S. PCHG	COLOR	PAIR	50 POINT JACK	T.S. PCHG	COLOR	PAIR	50 POINT JACK	T.S. PCHG	COLOR	PAIR	50 POINT JACK	T.S. PCHG
BL	1	1	R-21	EL	26	1	S-38	BL	51	1	R-54	BL	76	1	R-80
W		26	T-21	W		26	S-37	W		26	T-54	W		26	T-80
O	2	2	S-22	C	27	2	R-38	O		2	R-55	O		2	R-96
W		27	S-21	W		27	T-38	W		27	T-55	W		27	T-96
G	3	3	R-22	G		3	R-39	G		3	S-56	G		3	SPARE
W		28	T-22	W		28	T-39	W		28	S-55	W		28	S-96
BR	4	4	R-23	BR		4	S-30	BR		4	R-56	BR		4	R-97
W		29	T-23	W		29	S-39	W		29	T-56	W		29	T-97
S	5	5	S-24	S		5	R-30	S		5	R-57	S		5	S-98
W		30	S-23	W		30	T-30	W		30	T-57	W		30	S-97
BL	6	6	R-24	BL		6	R-41	BL		6	S-58	BL		6	R-98
R		31	T-24	R		31	T-4	R		31	S-57	R		31	T-98
O	7	7	R-25	O		7	S-42	O		7	R-58	O		7	R-99
R		32	T-25	R		32	S-41	R		32	T-58	R		32	T-99
G	8	8	S-26	G		8	R-42	G		8	R-59	G		8	S-90
R		33	S-25	R		33	T-42	R		33	T-59	R		33	S-99
BR	9	9	R-26	BR		9	R-43	BR		9	S-50	BR		9	R-90
R		34	T-26	R		34	T-43	R		34	S-59	R		34	T-90
S	10	10	R-27	S		10	S-44	S		10	R-50	S		10	R-01
R		35	T-27	R		35	S-43	R		35	T-50	R		35	T-01
BL	11	11	S-28	BL		11	R-44	BL		11	R-76	BL		11	S-02
BK		36	S-27	BK		36	T-44	BK		36	T-76	BK		36	S-01
O	12	12	R-28	O		12	R-45	O		12	SPARE	O		12	R-02
BK		37	T-28	BK		37	T-45	BK		37	S-76	BK		37	T-02
G	13	13	R-29	G		13	S-46	G		13	R-77	G		13	R-03
BK		38	T-29	BK		38	S-45	BK		38	T-77	BK		38	T-03
BR	14	14	S-20	BR		14	R-46	BR		14	S-78	BR		14	S-04
BK		39	S-29	BK		39	T-46	BK		39	S-77	BK		39	S-03
S	15	15	R-20	S		15	R-47	S		15	R-78	S		15	R-04
BK		40	T-20	BK		40	T-47	BK		40	T-78	BK		40	T-04
BL	16	16	R-31	BL		16	S-48	BL		16	R-79	BL		16	R-05
Y		41	T-31	Y		41	S-47	Y		41	T-79	Y		41	T-05
O	17	17	S-32	O		17	R-48	O		17	S-70	O		17	S-06
Y		42	S-31	Y		42	T-48	Y		42	S-79	Y		42	S-05
G	18	18	R-32	G		18	R-49	G		18	R-70	G		18	R-06
Y		43	T-32	Y		43	T-49	Y		43	T-70	Y		43	T-06
BR	19	19	R-33	BR		19	S-40	BR		19	R-86	BR		19	R-07
Y		44	T-33	Y		44	S-49	Y		44	T-86	Y		44	T-07
S	20	20	S-34	S		20	R-40	S		20	SPARE	S		20	S-08
Y		45	S-33	Y		45	T-40	Y		45	S-86	Y		45	S-07
BL	21	21	R-34	BL		21	R-51	BL		21	R-87	BL		21	R-08
V		46	T-34	V		46	T-51	V		46	T-87	V		46	T-08
O	22	22	R-35	O		22	S-52	O		22	S-88	O		22	R-09
V		47	T-35	V		47	S-51	V		47	S-87	V		47	T-09
G	23	23	S-36	G		23	R-52	G		23	R-88	G		23	S-00
V		48	S-35	V		48	T-52	V		48	T-88	V		48	S-09
BR	24	24	R-36	BR		24	R-53	BR		24	R-89	BR		24	R-00
V		49	T-36	V		49	T-53	V		49	T-89	V		49	T-00
S	25	25	R-37	S		25	S-54	S		25	S-80	S		25	SPARE
V		50	T-37	V		50	S-53	V		50	S-89	V		50	SPARE

EQUIPMENT NOTES (CONT. ON SH-017)

FIG. 81
(740E)SEL SHELF UNIT ARRANGED TO MOUNT
ON RR - SWITCH JACK
FOR COMMON GROUP TOUCH TONE APPLICATION
SEE NOTES 206, 207 & 212FIG. 82
(FOR FIG. 1)
(TOIB OR 711B)SEL SHELF UNIT ARRANGED TO MOUNT
ON SWITCH FRAME RR - SWITCH JACKS
SEL JACK WIRING VIA CDF
SEE NOTES 206 & 207FIG. 83
(740E)SEL SHELF UNIT ARRANGED TO MOUNT
ON RR - SWITCH JACKS
SEL JACK WIRING VIA DF
SEE NOTES 206 & 207

EQUIPMENT NOTES: (CONT)

211. CF-15073 CABLE E/W 4 KS-16689, L3 PLUGS

BLUE BINDER				ORANGE BINDER				GREEN BINDER				BROWN BINDER			
CABLE	AMPHENOL	LEAD DESIG &		CABLE	AMPHENOL	LEAD DESIG &		CABLE	AMPHENOL	LEAD DESIG &		CABLE	AMPHENOL	LEAD DESIG &	
COLOR	57-TYPE	SELECTOR		COLOR	57-TYPE	SELECTOR		COLOR	57-TYPE	SELECTOR		COLOR	57-TYPE	SELECTOR	
PAIR	50 POINT PLUG	T.S. PCHG		PAIR	50 POINT PLUG	T.S. PCHG		PAIR	50 POINT PLUG	T.S. PCHG		PAIR	50 POINT PLUG	T.S. PCHG	
BL 1	1	R-29		EL 26	1	S-22		BL 51	1	R-56		BL 76	1	R-80	
W 2	26	T-29		W 27	26	S-33		W 52	26	T-56		W 77	26	T-80	
O 3	2	S-23		O 28	2	R-32		O 53	2	R-55		O 78	2	R-99	
W 4	27	S-24		W 29	27	T-32		W 54	27	T-55		W 79	27	T-99	
G 5	3	R-28		G 30	3	R-31		G 55	3	S-54		G 80	3	SPARE	
W 6	28	T-28		W 31	28	T-31		W 56	28	S-55		W 81	28	S-97	
BR 7	4	R-27		BR 32	4	S-30		BR 57	4	P-54		BR 82	4	R-98	
W 8	29	T-27		W 33	29	S-31		W 58	29	T-54		W 83	29	T-98	
S 9	5	S-26		S 34	5	R-30		S 59	5	R-53		S 84	5	S-97	
W 10	30	T-27		W 35	30	T-30		W 60	30	T-53		W 85	30	S-98	
BL 11	6	R-26		BL 36	6	R-29		BL 61	6	S-52		BL 86	6	R-97	
R 12	31	T-26		R 37	31	T-29		R 62	31	S-53		R 87	31	T-97	
O 13	7	R-25		O 38	7	S-48		O 63	7	R-52		O 88	7	R-96	
R 14	32	T-25		R 39	32	S-49		R 64	32	T-52		R 89	32	T-96	
G 15	8	S-24		G 40	8	R-48		G 65	8	R-51		G 90	8	S-90	
BR 16	33	S-25		BR 41	33	T-48		BR 66	33	T-51		BR 91	33	S-96	
W 17	9	R-24		W 42	9	R-47		W 67	9	S-50		W 92	9	R-90	
BL 18	34	T-24		BL 43	34	T-47		BL 68	34	S-51		BL 93	34	T-90	
R 19	10	R-23		R 44	10	S-46		R 69	10	R-50		R 94	10	R-01	
O 20	35	T-23		O 45	35	S-47		O 70	35	T-50		O 95	35	T-01	
W 21	11	S-22		W 46	11	R-46		W 71	11	R-79		W 96	11	S-02	
BL 22	36	S-23		BL 47	36	T-46		BL 72	36	T-79		BL 97	36	S-31	
BK 23	12	R-22		BK 48	37	R-45		BK 73	37	SPARE		BK 98	37	R-02	
O 24	37	T-22		O 49	37	T-45		O 74	37	S-79		O 99	37	T-02	
BK 25	13	R-21		BK 50	38	S-44		BK 75	38	R-78		BK 100	38	R-03	
G 26	38	T-21		G 51	38	S-45		G 76	38	T-78		G 101	38	T-03	
BR 27	14	S-20		BR 52	39	R-44		BR 77	39	S-77		BR 102	39	S-04	
W 28	39	S-21		W 53	39	T-44		W 78	39	S-78		W 103	39	S-03	
BK 29	15	R-20		BK 54	40	R-43		BK 79	40	R-77		BK 104	40	R-04	
BL 30	40	T-20		BL 55	40	T-43		BL 80	40	T-77		BL 105	40	T-04	
Y 31	16	R-39		Y 56	41	S-42		Y 81	41	R-76		Y 106	41	R-05	
O 32	41	S-39		O 57	41	S-43		O 82	41	T-76		O 107	41	S-05	
BK 33	17	S-39		BK 58	42	R-42		BK 83	42	S-70		BK 108	42	S-06	
W 34	42	R-38		W 59	42	T-42		W 84	42	S-71		W 109	42	S-05	
BL 35	18	T-38		BL 60	43	R-41		BL 85	43	T-70		BL 110	43	R-06	
BK 36	43	T-38		BK 61	44	S-40		BK 86	44	R-89		BK 111	44	T-06	
Y 37	19	R-37		Y 62	45	S-41		Y 87	45	T-89		Y 112	45	R-07	
O 38	44	T-37		O 63	46	R-40		O 88	46	SPARE		O 113	46	T-07	
BK 39	20	S-36		BK 64	47	T-40		BK 89	47	S-89		BK 114	47	S-08	
W 40	45	S-37		W 65	48	R-39		W 90	48	R-88		W 115	48	S-08	
BL 41	21	R-36		BL 66	49	T-39		BL 91	49	T-88		BL 116	49	T-08	
BK 42	46	T-36		BK 67	50	S-58		BK 92	50	S-87		BK 117	50	S-09	
O 43	22	R-35		O 68	51	T-58		O 93	51	T-87		O 118	51	S-09	
BK 44	47	T-35		BK 69	52	R-57		BK 94	52	R-86		BK 119	52	R-00	
W 45	23	S-34		W 70	53	T-57		W 95	53	T-86		W 120	53	T-00	
BL 46	48	S-35		BL 71	54	S-56		BL 96	54	S-80		BL 121	54	SPARE	
BK 47	24	R-34		BK 72	55	S-57		BK 97	55	S-81		BK 122	55	SPARE	
W 48	49	T-34		W 73	56			W 98	56			W 123	56		
BL 49	25	R-33		BL 74	57			BL 99	57			BL 124	57		
BK 50	50	T-33		BK 75	58			BK 100	58			BK 125	58		

212. FOR TOUCH-TONE CALLING REMOVE TAPE, AND TURN BACK WIRES FOR POSSIBLE FUTURE REUSE.

FIG. 84(A & M ONLY)
(701A & 711A)
SHELF UNIT
APPLICATION OF
COMMON GROUP TOUCH TONE CALLING
SEE NOTES 206, 208 & 212

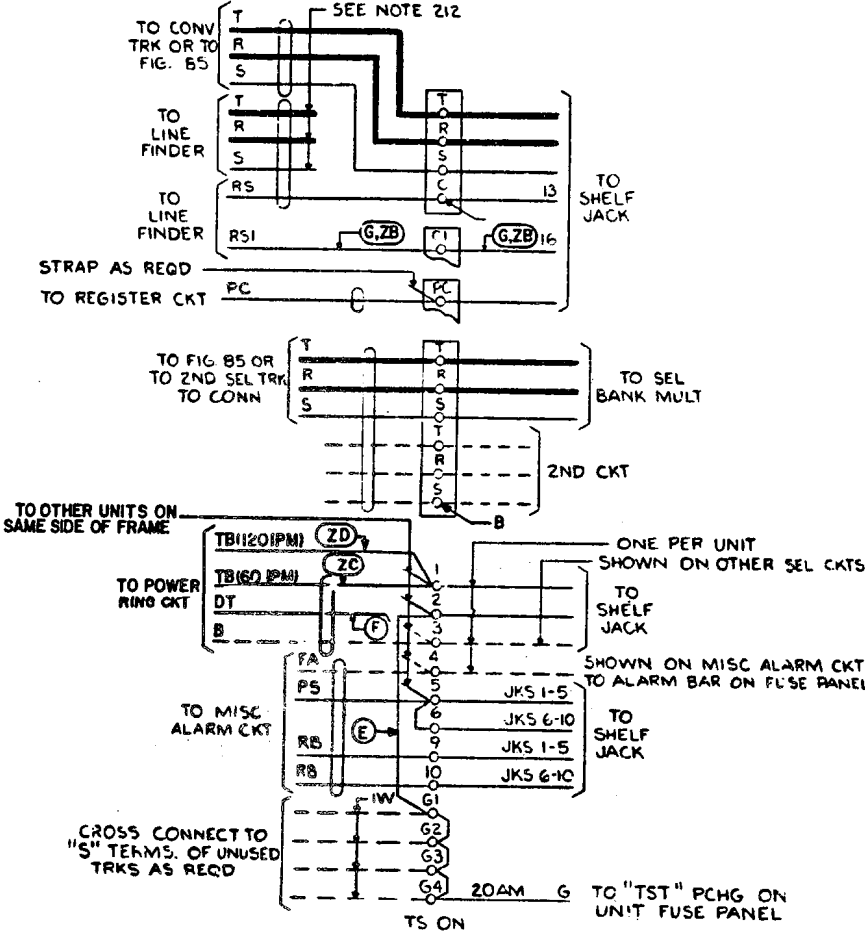
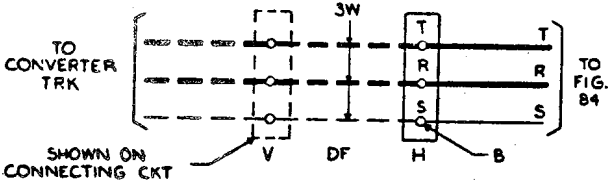


FIG. 85 (A & M ONLY)
(701A & 711A)
APPLICATION OF
COMMON GROUP TOUCH TONE CALLING



SD-66359-017