(G) 197AJ SWITCH MODIFIED PER NOTE 110

(ZA) 197JT SWITCH SEE NOTE 111

(H) 197AJ SWITCH 242A PLUG 344 JACK

CIRCUIT NOTES:

101.

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

102.

FEATURE OR OPTION		PROVIDE FIG.	PROVIDE APP OR WIR	PROVIDE QUANTITY
FIRST SELECTOR CIRCUIT (SEE NOTE 111, 112 OR 113)		1		1 PER SEL
BANK MULTIPLE		2		100 PER SHELF POS
TWO GRADES OF SERVICE RESTICTION (SEE NOTES 112, 113)			ZB	
COMMON GROUP TOUCH TONE CALLING USING CONVERTER TRUNK	PROVIDED		E	
	NOT PROVIDED		F	

103.

NETWORK VALUES			
NETWORK NO.	NETWORK 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	USE IN CIRCUIT A&M	USE IN CIRCUIT MD	USE IN CIRCUIT PROV
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			G
24D	E OR F	F	102	E, F			
26B	A, B, ZA OR ZB	B, G OR H				B	
			110, 111, 112	ZA	G, A		
			102, 113	ZB			
			107			H	
	ZC OR ZD	ZC		ZD	ZC		

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. (MFR DISC) SEE NOTE 107

107. FOR "H" OPTION: (MFR DISC) SEE NOTE 111 AND 112
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: (A&M ONLY)
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.

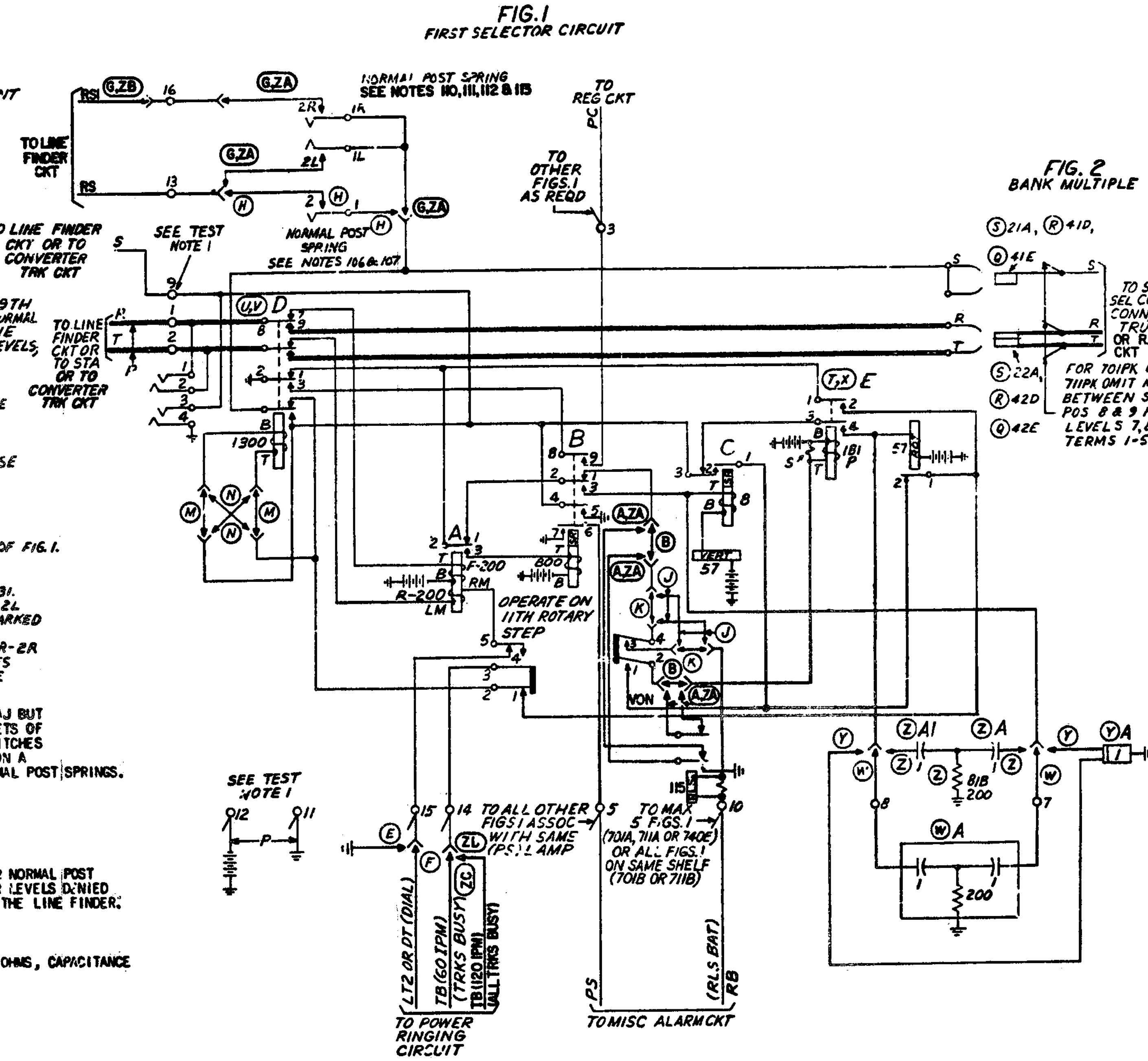
111. ZA OPTION ADDS A NEW SWITCH CODE 197JT SIMILAR TO 197AJ BUT WITH THE ADDITION OF RELEASE MAGNET SPRINGS AND TWO SETS OF POST SPRINGS. FIELD MODIFICATIONS TO CHANGE 197AJ SWITCHES TO THE NEW CODE 197JT MAY BE MADE PER D180389. OPTION A ADDS THE RLS MAGNET SPRINGS AND OPTION G ADDS THE NORMAL POST 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 1000Ω LOOP-LEAK "B" IN PULSING TEST SET.
**WHEN USING 1200 Ω 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.

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	

1	1	2D	APP 1D	3A	APP 2A
4D	APP 3D	5D	APP [illegible]	6D	APP 5D
7D	APP 6D	8D	APP 7D	9D	APP 8D
10D	APP 9D	11D	APP 10D	12D	APP 11D
13A	2A	14D	2A APP 1D		

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	APPROVED	
15D	3D	12-21-56	A.E.B. F.G.S.	W.V.S. N.H.A.
16D	3D APP 1D	6-21-57	C.J.E. N.T.S.	W.V.S. N.H.A.
17D	3D APP 2D	11-26-57	A.R.W. G.J.M.	W.V.S. N.H.A.
18D	3D APP 3D	1-27-58	G.W. M.B.	W.V.S. N.H.A.
19D	3D APP 4D	5-8-58	J.K. W.J.H.	W.V.S. P.W.S.
20D	3D APP 5D	12-3-58	R.E. H.M.	W.V.S. P.W.S.
21B	4B	3-30-62	C.D. W.V.H.	B.A.F. H.F.H. P.D.
22D	4B APP 1D	10-19-62	W.V.H. H.M.	J.J.H. E.M.L. T.E.B.
WORN DRAWING REPRODUCED WITHOUT CHANGE 12-11-62				
23D	4B APP 2D	8-1-63	JH MS	J.J.H. E.M.L. TEB
24D	4B APP 3D	1-15-64	FO WVH	JJH HFH PD
25D	4B APP 4D	9-20-68	GAH PJS	RLS LAH RHP
26B	5B	9-2-69	CED PMC JEA	PJG RVL LDJ

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

REPLACES SD-66139-01

SD-66359-01 1107

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

(1ST SEL)

26

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

SD-66359-011
7 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-66359-011

(G) 197AJ SWITCH MODIFIED PER NOTE 110

(ZA) 197JT SWITCH SEE NOTE 111

(H) 197AJ SWITCH 242A PLUG 344 JACK

CIRCUIT NOTES:

101.

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

102.

FEATURE OR OPTION		PROVIDE FIG.	APP OR WIR	QUANTITY
FIRST SELECTOR CIRCUIT (SEE NOTE 111, 112 OR 113)		1		1 PER SEL
BANK MULTIPLE		2		100 PER SELF POS
TWO GRADES OF SERVICE RESTICTION (SEE NOTES 112, 113)			ZB	
COMMON GROUP TOUCH TONE CALLING USING CONVERTER TRUNK	PROVIDED		E	
	NOT PROVIDED		F	

103.

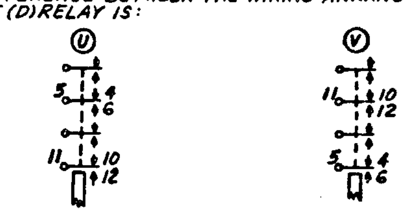
NETWORK VALUES			
NETWORK NO.	CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF
1	178A	150	1-1

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	PROV
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			G
24D	E OR F	F	102	E, F			
26B	A, B, ZA OR ZB	B, G OR H				B	
			110, 111, 112	ZA	G, A		
			102, 113	ZB			
			107			H	
	ZC OR ZD	ZC		ZD	ZC		
28D	Y OR ZE	Y		ZE		Y	

CIRCUIT NOTES: (CONT)

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



106. (MFR DISC) SEE NOTE 107 — 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. (MFR DISC) SEE NOTE 111 AND 112 — 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: (A&M ONLY)
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 D180389. OPTION A ADDS THE RLS MAGNET SPRINGS AND OPTION G ADDS THE NORMAL POST SPRINGS.

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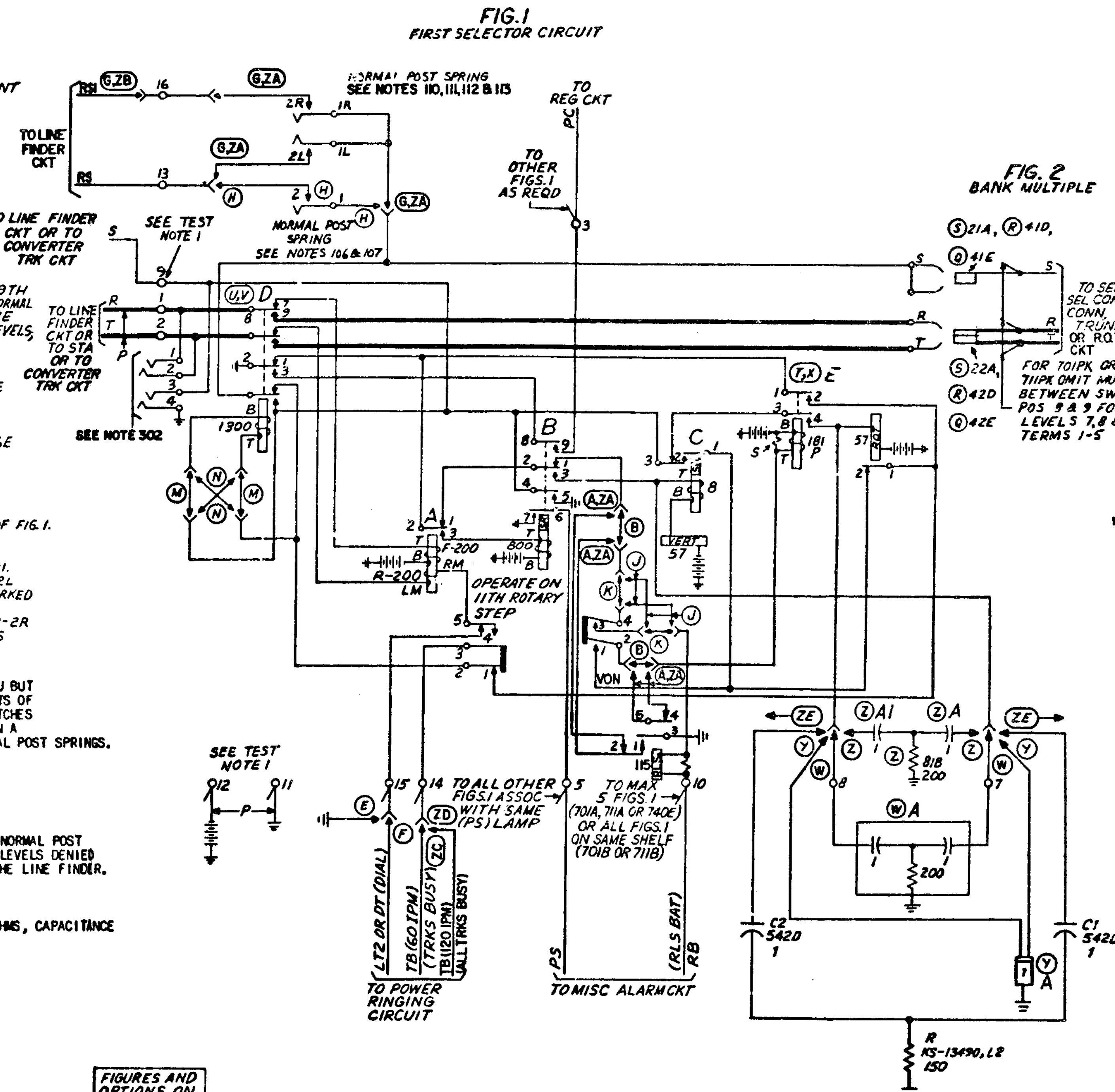
113. SECOND GRADE OF SERVICE RESTRICTION: PROVIDE ZB OPTION. ZB OPTION PROVIDES WIRING TO 1R-2R NORMAL POST SPRINGS. ADJUST 1R-2R SPRINGS TO MAKE ON ANY LEVEL OR LEVELS DENIED TO ALL LINES LOCATED ON A RESTRICTED SERVICE LEVEL OF THE LINE FINDER.

INFORMATION NOTES:

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

INFORMATION NOTES CONT ON SHEET -012.

44-52V



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.

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
			ZE
		N	
		M	
		K	
		J	

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
1	1	2D	APP 1D	3A	APP 2A
4D	APP 3D	5D	APP 4D	6D	APP 5D
7D	APP 6D	8D	APP 7D	9D	APP 8D
10D	APP 9D	11D	APP 10D	12D	APP 11D
13A	2A	14D	2A APP 1D		

DWG ISSUE	EE OR CD ISSUE	DATE ISSUED	APPROVED	
15D	3D	12-21-56	AZI FSS	WYS [illegible]
16D	3D APP 1D	6-21-57	CJE WTS	WYS HHA
17D	3D APP 2D	11-20-57	ARW [illegible]	WYS HHA
18D	3D APP 3D	1-27-58	G.W. M.S.	WYS HHA
19D	3D APP 4D	5-8-58	J.K. WJH	WYS PWS
20D	3D APP 5D	12-3-58	R.E. H.M.	WYS PWS
21B	4B	3-30-62	C.D. WYH	BAF HFH P.D.
22D	4B APP 1D	[illegible]	[illegible] H.M.	JJH EWL TEB
WORK DRAWING REPRODUCED WITHOUT CHANGE 12-15-62				
23D	4B APP 2D	8-1-63	JH MS	JJH EWL TEB
24D	4B APP 3D	3-15-64	FO WYH	JJH HFH PD
25D	4B APP 4D	9-20-68	GAH PJS	RLS LAH RHP
26B	5B	9-2-69	CED PMC JEA	PJG RVL LDJ
27D	5B APP 1D	7-28-70	ASI CDH	JLF FLS CSPI
28D	5B APP 2D	9-15-72	DGS CBH	RCL RVL AFR

J58823J
J58823F
J58801D
J58842B
J58842A
J58831G
J58831F
J58831E

ED-66359-( )
EQUIPMENT INFO.

REPLACES SD-66139-01

SD-66359-01 407

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

(2) (1ST SEL)

AT&TCO STANDARD
ISSUE 28D

A&M ONLY FOR 701A, 711A AND 740E PBX

SD-66359-011
7 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED 6S

CIRCUIT REQUIREMENTS

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

APPARATUS: DESIG	CODE	OPTION	FIG.	MECH REQT: RESID	MECH REQT: DISP 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 PROV	SEE TEST NOTE	DIRECT CURRENT FLOW REQT: TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	TIME REQ: TEST SEC	TIME REQ: READJ SEC	REMARKS
RELAYS																				
A	221A		1	7-11	11		8	(B)NO	TST JK 2	TST JK 1	M	3	F/R	O	FS	15.1	14.8			
								(B)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	W-BR	10/11		H					.300	
									TST JK 1	TST JK 2	W-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			
								1(A)		3(A)	GRD	7		NO	FS	7.7	8.2			
				MIN 1.5					TST JK 1	TST JK 2	W-BR	11/13		H					.450	
									TST JK 1	TST JK 2	W-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			
								1(A)		3(A)	GRD	7		NO	FS	8.5	9			
				MIN 1.5					TST JK 1	TST JK 2	W-BR	11/13		H					.333	
									TST JK 1	TST JK 2	W-BR	11		R				.750	.300	
								1(A)		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	W-K	11/14		H					.100	TST-CONT SEP MIN 3. CONT PRESS. SPGS 233 MIN 10 GRAMS
									TST JK 1	TST JK 2	W-[illegible]	11		R				.155	.140	
										3(B)	GRD	11		NO	500	65	69			
D	222HH		1	[illegible]	332		15		SEE REMARKS		BAT	2/9		O	FS	27	25.5			APPLY BAT. TO SPG 2 OF THE 11TH ROT. STEP SPRINGS
											BAT	2/5/9		NO	FS	20.5	22			
											BAT	8		NO	FS	12	12.7			
E	221C	X	1	4-8	1		13			2(VON)	GRD	6		O	FS	105	100			ADJ A (HFR DISC) SUPERSEDED BY ADJ B. ADJ B SUPERSEDING ADJ A
										2(VON)	GRD			NO	FS	85	90			
				7-9	700		16			2(VON)	GRD	6		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			

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 10D ADJ WAS: TEST READJ
   0 23 21.5
   NO 17 18
10. TEST HOLD - USE 1200 OHMS 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.

DRAWING ISSUE
15D
16D
17D
18D
19D
20D
21D
22D
23D
24D
25D
26B

FIRST SELECTOR CIRCUIT | SD-66359-012 | BELL TELEPHONE LABORATORIES, INC

SD-66359-012

DRAWING ISSUE
15D
16D
17D
18D
19D
20D
21B
22D
23D
24D
25D
26B

FIRST SELECTOR CIRCUIT | SD-66359-012 | BELL TELEPHONE LABORATORIES, INC | 6S

FOR 740E PBX ONLY

FIG. 51 (A&M ONLY)
(740E)
SEL SHELF UNIT ARR TO MOUNT ON SEL FRAME - BANK MULTIPLE SEE NOTE 201

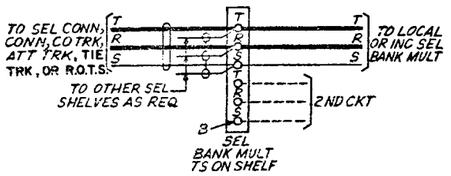
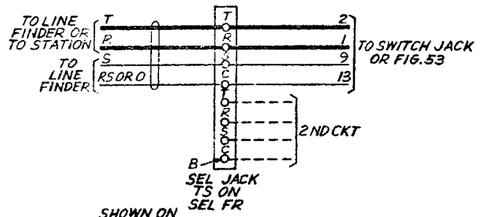
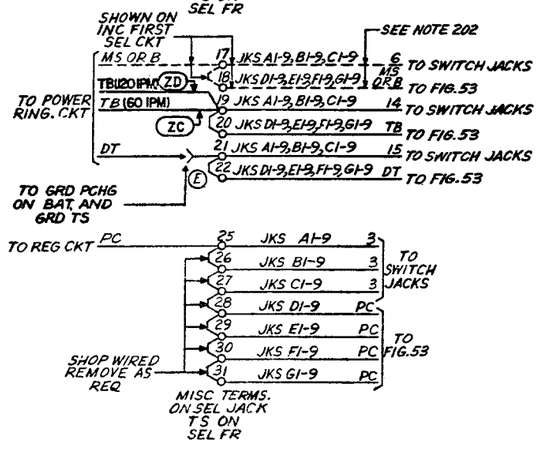


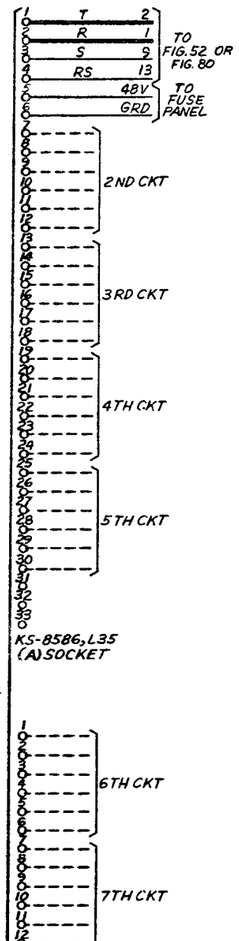
FIG. 52 (MFR DISC.)
(740E)
SEL SHELF UNIT ARR TO MOUNT ON SEL FRAME-SWITCH JACK
SEE NOTE 201
SEE FIG. 60 FOR TOUCH TONE CALLING





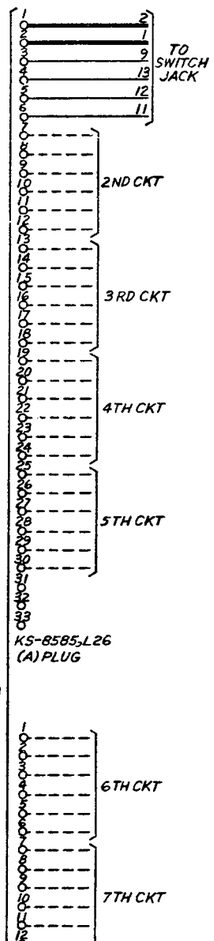
TO FIG. 54

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. 53

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. 54

FIG. 55
(740E)
SEL SHELF UNIT ARR TO MOUNT ON RR-BANKS

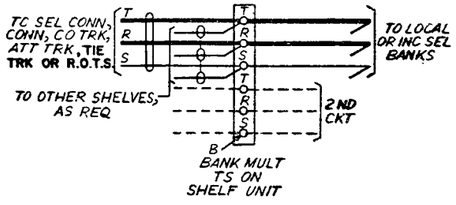


FIG. 56
(740E)
SEL SHELF UNIT ARR TO MOUNT ON RR-SWITCH JACKS
SEE NOTES 206 & 207
SEE FIG. 81 FOR TOUCH TONE CALLING

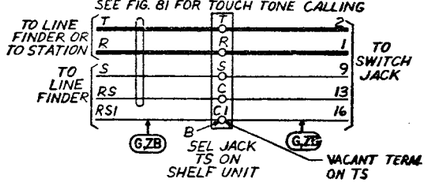
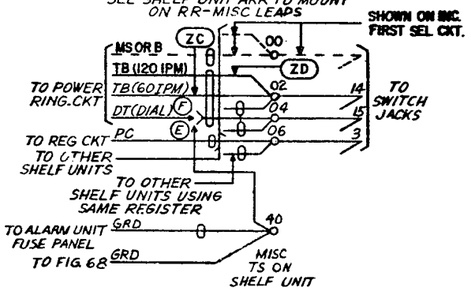


FIG. 57
(740E)
SEL SHELF UNIT ARR TO MOUNT ON RR-MISC LEADS



209. 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:

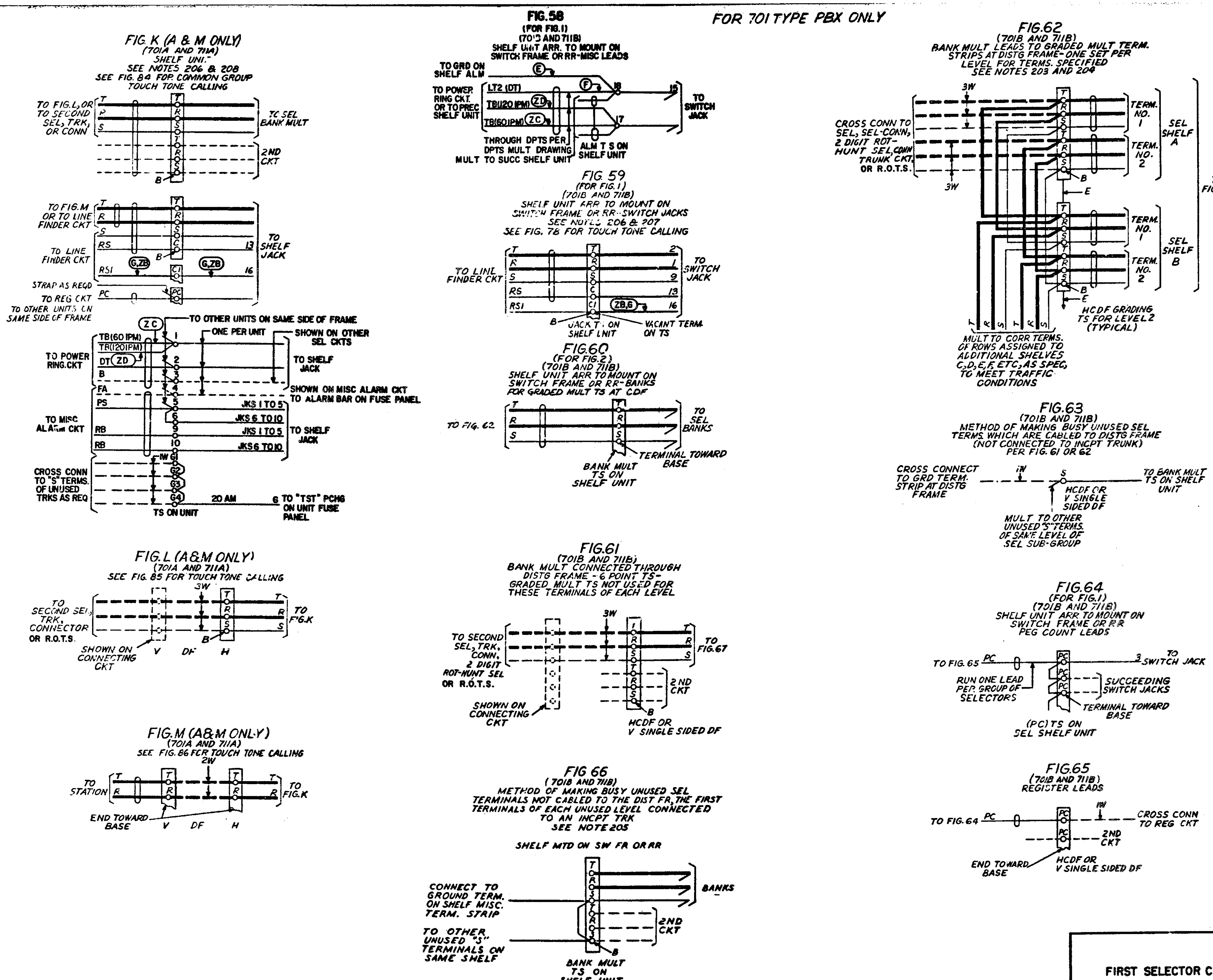
201. ALL CONNECTIONS ON 740E TS ARE TO BE MADE TO INNER NOTCH UNLESS OTHERWISE SPECIFIED.
202. ALL SHELVES ARE WIRED UNIVERSAL FOR USE WITH FIRST SELECTOR OR INCOMING SELECTORS.
203. THE SELECTOR BANK MULTIPLE GRADING TERMINAL STRIPS PER FIG. 62 PROVIDE A MEANS FOR ARRANGING SELECTORS, TRUNKS OR CONNECTORS ON A GRADED MULTIPLE BASIS. THE CORRESPONDING BANK TERMINALS ARE GROUPED BY LEVELS AT THE HCDF 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 0 MAY BE CABLED IN A FIXED MANNER WITH THE REVERSALS MADE IN THE CABLING 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 COPRESPONDING 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 "RSI" 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	SD-66359-013
BELL TELEPHONE LABORATORIES INCORPORATED	6S

SD-66359-013

26

FOR 701 TYPE PBX ONLY



DRAWING ISSUE
15D
16D
17D
18D
19D
20D
21B
22D
23D
24D
25D
26B

26

FIRST SELECTOR CIRCUIT

SD-66359-014

BELL TELEPHONE LABORATORIES INCORPORATED

65

SD-66359-014

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

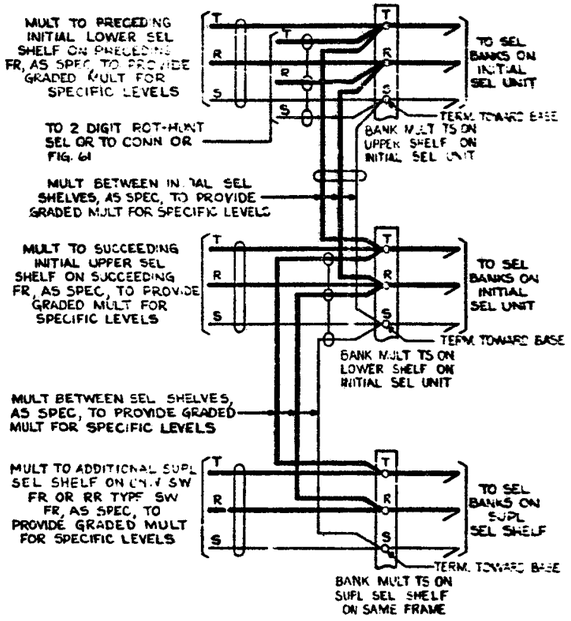


FIG. 68
(740E)
SEL SHELF UNIT
ARR TO MOUNT ON RR BANKS
METHOD OF MAKING BUSY
UNUSED SELECTORS
SEE NOTE 205

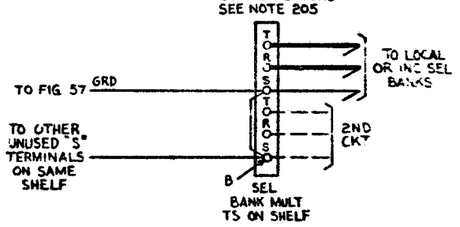


FIG. 69
(FOR FIG.1)(701PK & 711PK)

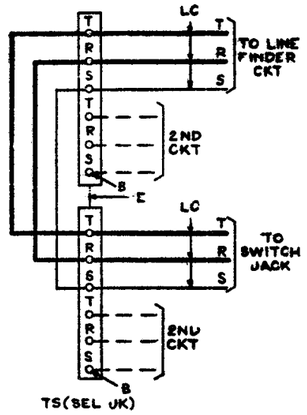


FIG. 70
(FOR FIG.1)(701FK & 711PK)
1ST MODULE

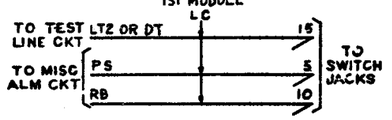


FIG. 71
(FOR FIG.1)(701PK & 711PK)
1ST MODULE

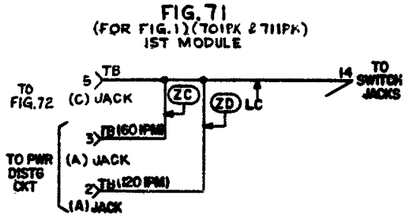


FIG. 72
(FOR FIG.1)(701PK & 711PK)
2ND MODULE

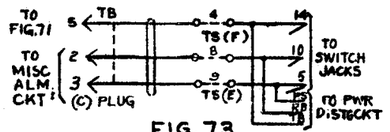


FIG. 73
METHOD OF MAKING BUSY UNUSED SEL TERMS (NOT CONNECTED TO INCPT TRK)

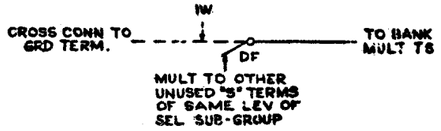


FIG. 74
(701PK & 711PK)
BANKS MULT LEADS TO GRADED MULT TERM. STRIP AT DISTG FRAME
SEE NOTE 209

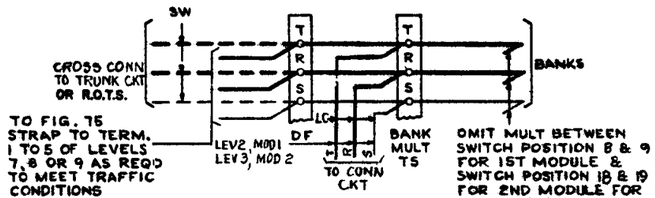


FIG. 75
(701PK & 711PK)
BANK MULT LEADS FOR LEVELS 7, 8 & 9, TERM 1-5, TO GRADED MULT TERM. STRIP AT DISTG FRAME
SEE NOTE 209.

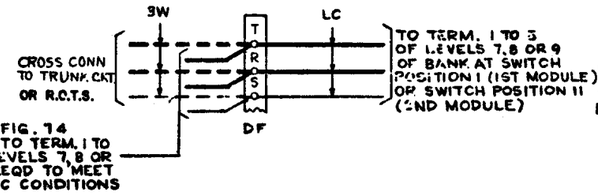


FIG. 76
(701PK & 711PK)
BANK MULT CONN THROUGH DISTG FRAME - 6 POINT TS

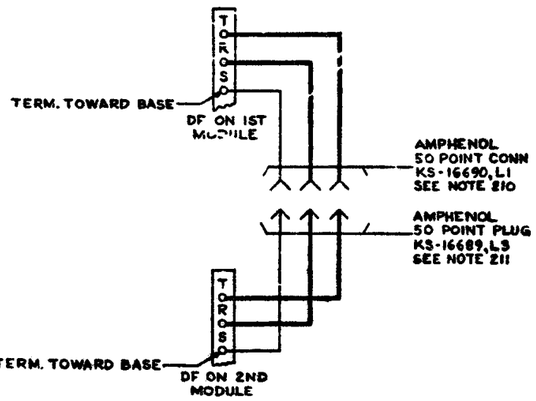


FIG. 77
(701PK & 711PK)
REGISTER LEADS

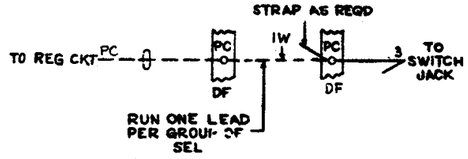


FIG. 78
FOR FIG 1
(701B & 711B)
SHELF UNIT ARRANGED TO MOUNT ON SWITCH FRAME OR R R - SWITCH JACKS FOR COMMON GROUP TOUCH TONE APPLICATION
SEE NOTES 206, 207 & 212

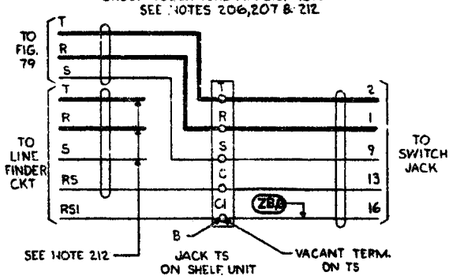


FIG. 79
(701B, 711B & 740E)
METHOD OF CONNECTING SEL JACK TO CONVERTER TRUNK CKT

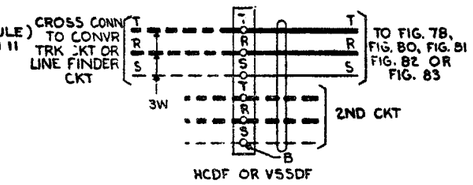
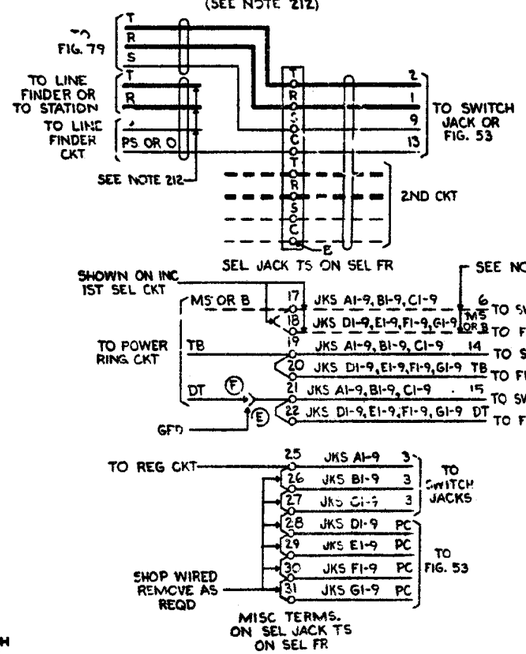


FIG. 80(MFR DISC.)
(740E)
SEL SHELF UNIT ARR TO MOUNT ON SEL FRAME - SWITCH JACK FOR COMMON GROUP TOUCH TONE APPL
(SEE NOTE 212)



DRAWING ISSUE
20D
21B
22D
25D
24D
25B
26B

FIRST SELECTOR CIRCUIT
SD-66359-015
BELL TELEPHONE LABORATORIES INCORPORATED
6S

SD-66359-015

EQUIPMENT NOTES: (CONT)

21D. CF-15073 CABLE E/W 4 KS-16690,L1 CONNECTORS

BLUE BINDER

CABLE COLOR	CABLE PAIR	AMPHENOL 57-TYPE 50 POINT JACK	LEAD DESIG & SELECTOR T.S. PCHG
BL	1	1	R-21
W		26	T-21
O	2	2	S-22
W		27	S-21
G	3	3	R-22
W		28	T-22
BR	4	4	R-23
W		29	T-23
S	5	5	S-24
W		30	S-23
BL	6	6	R-24
R		31	T-24
O	7	7	R-25
R		32	T-25
G	8	8	S-26
R		33	S-25
BR	9	9	R-26
R		34	T-26
S	10	10	R-27
R		35	T-27
BL	11	11	S-28
BK		36	S-27
O	12	12	R-28
BK		37	T-28
G	13	13	R-29
BK		38	T-29
BR	14	14	S-20
BK		39	S-29
S	15	15	R-20
BK		40	T-20
BL	16	16	R-31
Y		41	T-31
O	17	17	S-32
Y		42	S-31
G	18	18	R-32
Y		43	T-32
BR	19	19	R-33
Y		44	T-33
S	20	20	S-34
Y		45	S-33
BL	21	21	R-34
V		46	T-34
O	22	22	R-35
V		47	T-35
G	23	23	S-36
V		48	S-35
BR	24	24	R-36
V		49	T-36
S	25	25	R-37
V		50	T-37

ORANGE BINDER

CABLE COLOR	CABLE PAIR	AMPHENOL 57-TYPE 50 POINT JACK	LEAD DESIG & SELECTOR T.S. PCHG
BL	26	1	S-38
W		26	S-37
O	27	2	R-38
W		27	T-38
G	28	3	R-39
W		28	T-39
BR	29	4	S-30
W		29	S-39
S	30	5	R-30
W		30	T-30
BL	31	6	R-41
R		31	T-4
O	32	7	S-42
R		32	S-41
G	33	8	R-42
R		33	T-42
BR	34	9	R-43
R		34	T-43
S	35	10	S-44
R		35	S-43
BL	36	11	R-44
BK		36	T-44
O	37	12	R-45
BK		37	T-45
G	38	13	S-46
BK		38	S-45
BR	39	14	R-46
BK		39	T-46
S	40	15	R-47
BK		40	T-47
BL	41	16	S-48
Y		41	S-47
O	42	17	R-48
Y		42	T-48
G	43	18	R-49
Y		43	T-49
BR	44	19	S-40
Y		44	S-49
S	45	20	R-40
Y		45	T-40
BL	46	21	R-51
V		46	T-51
O	47	22	S-52
[illegible]		47	S-51
G	48	23	R-52
V		48	T-52
BR	49	24	R-53
V		49	T-53
S	50	25	S-54
V		50	S-53

GREEN BINDER

CABLE COLOR	CABLE PAIR	AMPHENOL 57-TYPE 50 POINT JACK	LEAD DESIG & SELECTOR T.S. PCHG
BL	51	1	R-54
W		26	T-54
O	52	2	R-55
W		27	T-55
G	53	3	S-56
W		28	S-55
BR	54	4	R-56
W		29	T-56
S	55	5	R-57
W		30	T-57
BL	56	6	S-58
R		31	S-57
O	57	7	R-58
R		32	T-58
G	58	8	R-59
R		33	T-59
BR	59	9	S-50
R		34	S-59
S	60	10	R-50
R		35	T-50
BL	61	11	R-76
BK		36	T-76
O	62	12	SPARE
BK		37	S-76
G	63	13	R-77
BK		38	T-77
BR	64	14	S-78
BK		39	S-77
S	65	15	R-78
BK		40	T-78
BL	66	16	R-79
Y		41	T-79
O	67	17	S-70
Y		42	S-79
G	68	18	R-70
Y		43	T-70
BR	69	19	R-86
Y		44	T-86
S	70	20	SPARE
Y		45	S-86
BL	71	21	R-87
V		46	T-87
O	72	22	S-88
V		47	S-87
G	73	23	R-88
V		48	T-88
BR	74	24	R-89
V		49	T-39
S	75	25	S-80
V		50	S-89

BROWN BINDER

CABLE COLOR	CABLE PAIR	AMPHENOL 57-TYPE 50 POINT JACK	LEAD DESIG & SELECTOR T.S. PCHG
BL	76	1	R-80
W		26	T-80
O	77	2	R-96
W		27	T-96
G	78	3	SPARE
W		28	S-96
BR	79	4	R-97
W		29	T-97
S	80	5	S-98
W		30	S-97
BL	81	6	R-98
R		31	T-98
O	82	7	R-99
R		32	T-99
G	83	8	S-90
R		33	S-99
BR	84	9	R-90
R		34	T-90
S	85	10	R-01
R		35	T-01
BL	86	11	S-02
BK		36	S-01
O	87	12	R-02
BK		37	T-02
G	88	13	R-03
BK		38	T-03
BR	89	14	S-04
BK		39	S-03
S	90	15	R-04
BK		40	T-04
BL	91	16	R-05
Y		41	T-05
O	92	17	S-06
Y		42	S-05
G	93	18	R-06
Y		43	T-06
BR	94	19	R-07
Y		44	T-07
S	95	20	S-08
Y		45	S-07
BL	96	21	R-08
V		46	T-08
O	97	22	R-09
V		47	T-09
G	98	23	S-00
V		48	S-09
BR	99	24	R-00
V		49	T-00
S	100	25	SPARE
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 APLICATION
SEE NOTES 206, 207 & 212

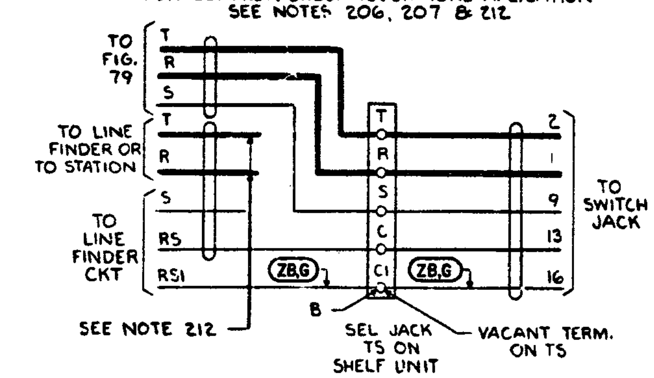


FIG. 82
(FOR FIG. 1)
(701B OR 711B)
SHELF UNIT ARRANGED TO MOUNT ON SWITCH FRAME RR-SWITCH JACKS
SEL JACK WIRING VIA CDF
SEE NOTES 206 & 207

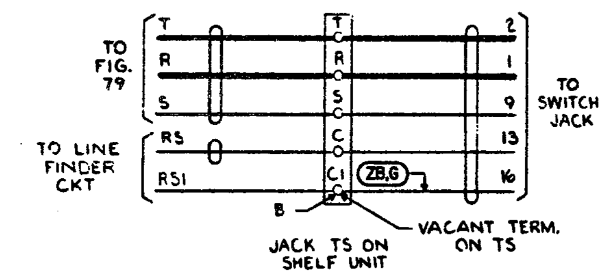
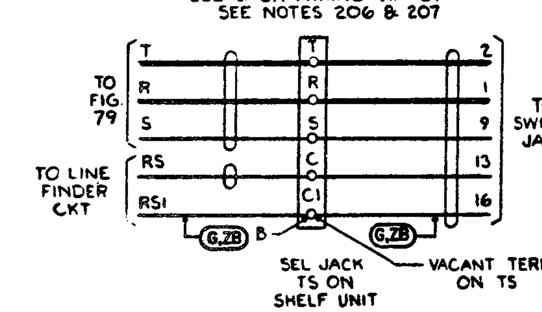


FIG. 83
(740E)
SEL SHELF UNIT ARRANGED TO MOUNT ON RR-SWITCH JACKS
SEL JACK WIRING VIA DF
SEE NOTES 206 & 207



ISSUE	
22D	WH TCB
23D	JH MS TEB
24D	FO WHI PD
25D	GAH FJS RHP
26B	CED PMC LDJ

HV.

26

FIRST SELECTOR CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SD-66359-016

6S

EQUIPMENT NOTES: (CONT)

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

BLUE BINDER			
CABLE		AMPHENOL 57-TYPE 50 POINT PLUG	LEAD DESIG & SELECTOR T.S. PCHG
COLOR	PAIR		
BL	1	1	R-29
W		26	T-29
O	2	2	S-28
W		27	S-29
G	3	3	R-28
W		28	T-28
BR	4	4	R-27
W		29	T-27
S	5	5	S-26
W		30	S-27
BL	6	6	R-26
R		31	T-26
O	7	7	R-25
R		32	T-25
G	8	8	S-24
R		33	S-25
BR	9	9	R-24
R		34	T-24
S	10	10	R-23
R		35	T-23
BL	11	11	S-22
BK		36	S-23
O	12	12	R-22
BK		37	T-22
G	13	13	R-21
BK		38	T-21
BR	14	14	S-20
BK		39	S-21
S	15	15	R-20
BK		40	T-20
BL	16	16	R-39
Y		41	T-39
O	17	17	S-38
Y		[illegible]	S-39
G	18	18	R-38
Y		43	T-38
BR	19	19	R-37
Y		44	T-37
S	20	20	S-36
Y		45	S-37
BL	21	21	R-36
V		46	T-36
O	22	22	R-35
V		47	T-35
G	23	23	S-34
V		48	S-35
BR	24	24	R-34
V		49	T-34
S	25	25	R-33
V		50	T-33

ORANGE BINDER			
CABLE		AMPHENOL 57-TYPE 50 POINT PLUG	LEAD DESIG & SELECTOR T.S. PCHG
COLOR	PAIR		
BL	26	1	S-32
W		26	S-33
O	27	2	R-32
W		27	T-32
G	28	3	R-31
W		28	T-31
BR	29	4	S-30
W		29	S-31
S	30	5	R-30
W		30	T-30
BL	31	6	R-49
R		31	T-49
O	32	7	S-48
R		32	S-49
G	33	8	R-48
R		33	T-48
BR	34	9	R-47
R		34	T-47
S	35	10	S-46
R		35	S-47
BL	36	11	R-46
BK		36	T-46
O	37	12	R-45
BK		37	T-45
G	38	13	S-44
BK		38	S-45
BR	39	14	R-44
BK		39	T-44
S	40	15	R-43
BK		40	T-43
BL	41	16	S-42
Y		41	S-43
O	42	17	R-42
Y		42	T-42
G	43	18	R-41
Y		43	T-41
BR	44	19	S-40
Y		44	S-41
S	45	20	R-40
Y		45	T-40
BL	46	21	R-59
V		46	T-59
O	47	22	S-58
V		47	S-59
G	48	23	R-58
V		48	T-58
BR	49	24	R-57
V		49	T-57
S	50	25	S-56
V		50	S-57

GREEN BINDER			
CABLE		AMPHENOL 57-TYPE 50 POINT PLUG	LEAD DESIG & SELECTOR T.S. PCHG
COLOR	PAIR		
BL	51	1	R-56
W		26	T-56
O	52	2	R-55
W		27	T-55
G	53	3	S-54
W		28	S-55
BR	54	4	R-54
W		29	T-54
S	55	5	R-53
W		30	T-53
BL	56	6	S-52
R		31	S-53
O	57	7	R-52
R		32	T-52
G	58	8	R-51
R		33	T-51
BR	59	9	S-50
R		34	S-51
S	60	10	R-50
R		35	T-50
BL	61	11	R-79
BK		36	T-79
O	62	12	SPARE
BK		37	S-79
G	63	13	R-78
BK		38	T-78
BR	64	14	S-77
BK		39	S-78
S	65	15	R-77
BK		40	T-77
BL	66	16	R-76
Y		41	T-76
O	67	17	S-70
Y		42	S-76
G	68	18	R-70
Y		43	T-70
BR	69	19	R-89
Y		44	T-89
S	70	20	SPARE
Y		45	S-89
BL	71	21	R-88
Y		46	T-88
O	72	22	S-87
V		47	S-88
G	73	23	R-87
V		48	T-87
BR	74	24	R-86
V		49	T-86
S	75	25	S-80
V		50	S-86

BROWN BINDER			
CABLE		AMPHENOL 57-TYPE 50 POINT PLUG	LEAD DESIG & SELECTOR T.S. PCHG
COLOR	PAIR		
BL	76	1	R-80
W		26	T-80
O	77	2	R-99
W		27	T-99
G	78	3	SPARE
W		28	S-99
BR	79	4	R-98
W		29	T-98
S	80	5	S-97
W		30	S-98
BL	81	6	R-97
R		31	T-97
O	82	7	R-96
R		32	T-96
G	83	8	S-90
R		33	S-96
BR	84	9	R-90
R		34	T-90
S	85	10	R-01
R		35	T-01
BL	86	11	S-02
BK		36	S-01
O	87	12	R-02
BK		37	T-02
G	88	13	R-03
BK		38	T-03
BR	89	14	S-04
BK		39	S-03
S	90	15	R-04
BK		40	T-04
BL	91	16	R-05
Y		41	T-05
O	92	17	S-06
Y		42	S-05
G	93	18	R-06
Y		43	T-06
BR	94	19	R-07
Y		44	T-07
S	95	20	S-08
Y		45	S-07
BL	96	21	R-08
V		46	T-08
O	97	22	R-09
V		47	T-09
G	98	23	S-00
V		48	S-09
BR	99	24	R-00
V		49	T-00
S	100	25	SPARE
V		50	SPARE

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

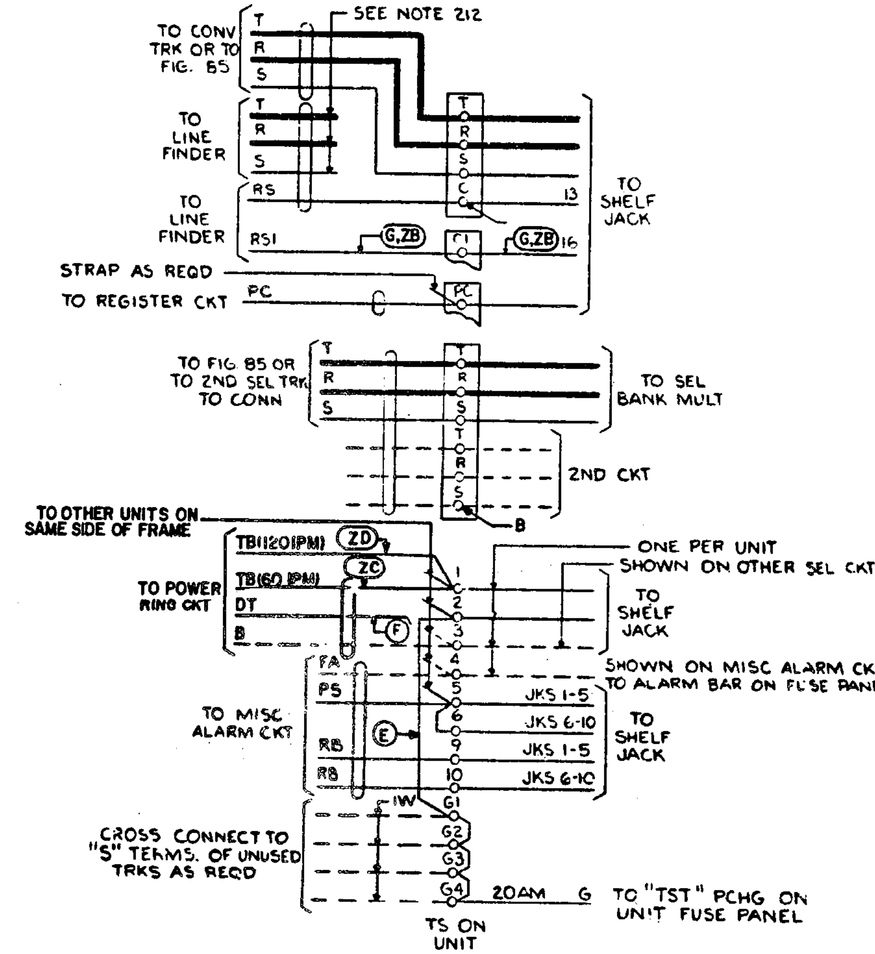
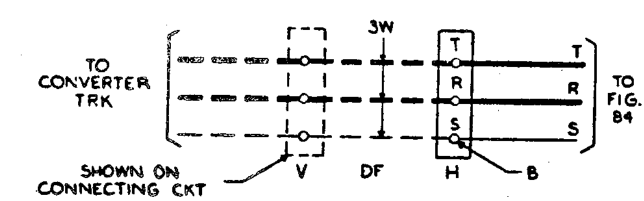


FIG. 85 (A & M ONLY)
(701A & 711A)
APPLICATION OF
COMMON GROUP TOUCH TONE CALLING



DRAWING ISSUE	
22D	HPT HM TEB
23D	JH RS TEB
24D	FO W/K PD
25D	GAH RJS RHP
26B	CED PMC LDJ

KY

HW

26

FIRST SELECTOR CIRCUIT

2

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6S

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