

SHEET INDEX

FIG.	CONTENTS	SHEET NO.	ISSUE NO.																							
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3 4 5 C D F G	SELECTOR	3	28	28	30	31	32																			
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51 52 53 54 55 56 57	CABLING DIAGRAMS FOR USE IN NO. 1 OR 350A DIAL OFFICES FOR PART OF FIG. 1 FOR PART OF FIG. 1 FOR PART OF FIG. 1 OR 3 EQUIPMENT NOTES	5	28	28	28	28	28																			
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CONTENTS	SHEET NO.	ISSUE NO.																								

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	ED-55242-01 ED-30358-01 J-33017CT-()
KEYSHEET INFO	SD-62525-01 SD-62440-01 SD-64800-01 SD-32320-01
MAINTENANCE BSP	227-100-500 227-100-501 227-100-502 227-100-503 227-100-504 227-100-505 227-120-500 227-130-500 227-300-000

SHEET INDEX NOTES

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

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

REPLACING SD-64589-01 & SD-55003-01

1H05
TOLL SYSTEMS
INTERTOLL DIALING
STEP BY STEP
FIRST SELECTOR, AUXILIARY SELECTOR
INTERMEDIATE SELECTOR
OR THRU SELECTOR CIRCUIT
WITH OR WITHOUT DIGIT ABSORBING

ISSUE
32B

AT&TCO
STANDARD

SD-55242-01-1
8 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE
6S

PRINTED IN U.S.A.

DWG ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
14A	5D APP 1A	15B	5D APP 2B	16D	6D
17D	7D	18D	7D APP 1D	19D	7D APP 2D
20D	7D APP 3D	21B	7D APP 4B	22D	7D APP 5D
23D	7D APP 6D	24A	7D APP 7A	25A	7D APP 8A
26 AR	7D APP 9AR	27 AC	8AC		
DWG ISS	EE OR CD ISSUE	DATE ISSUE	DRN	APPD	
28B	8AC APP 1B	11-9-71	RPR PJS HY	NTM LCB SEB	
29D	8AC APP 2D	5-12-72	EC PJS HY	JMS LCB SEB	
30D	8AC APP 3D	11-3-72	PJS PJS G K	FLS LCB SEB	
31AC	8AC APP 4AC	10-15-76	KD SAK GK	RWH GFC SEB	
32B	8AC APP 5B	2-13-78	CES PVS	JPW GFC JDM	

CIRCUIT REQUIREMENTS

APPARATUS			MECH REQ			CIRCUIT PREPARATION				TEST SET			DIRECT CURRENT FLOW REQ			TIME REQ		REMARKS	
DESIG	CODE	OPT	RESID	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	TEST SEC		READJ SEC
								CONN BAT.	CONN GRD										
RELAYS																			
A	221LW		1,3 7-11	11		8	(B) NO (B) NO	4T (F) 4T (F)	GRD GRD	1,2 1,2		0 NO	FS FS	37 33.5	36 34.5				
B	248G		1,3 1.5-4	517		27	(F) O (F) O	3(A) 3(A)	GRD GRD	3 4		0 NO	FS FS	10.5 8.5	10 9			.300 .750	.333 .500
C	221MD		1,3 S-4	371		13	(VERT) NO (VERT) NO	3(B) 3(B)	GRD GRD	3,7,8 4,7,8		0 NO	FS FS	90 62	85 69			.100 .155	.100 .140
D	222JY		B S-4	32		25		4(RLS) 4(RLS) 4(RLS) 4(RLS)	GRD GRD GRD GRD	9,10 9,11 9,11 12		0 NO 0 NO	FS FS FS FS	8.4 4.6 19.5 14.2	8 4.9 18.5 15				
D	222LF		C S-4	706		28	5(D) 5(D) 5(D) 5(D) 5(D) 5(D)	3RF(NPS) 3RF(NPS) 2(D) 2(D) 2(D) 2(D)	GRD GRD GRD GRD GRD GRD	13,14,26 18 16,18 16,18 15,16 15,16	S S P/S P/S P/S P/S	0 NO 0 NO 0 NO	FS FS FS FS FS FS	41 30.5 17.5 13.6 19.5 15	39 32 16.5 14.4 18.5 16				
D	222MC		D S-4	725		27	5(D) 5(D) 5(D) 5(D) 5(D) 5(D)	3RF(NPS) 3RF(NPS) 2(D) 2(D) 2(D) 2(D)	GRD GRD GRD GRD GRD GRD	13,14 15 15,16 15,16 15,16	S S P/S P/S P/S P/S	0 NO 0 NO 0 NO	FS FS FS FS FS FS	41 30.5 18.5 13.6 20.5 15	39 32 17.5 14.4 19.5 16				
E	221NL		B 1,3 7-9	700		16	(C) O (C) O	2(VON) 2(VON)	GRD GRD	1 1		0 NO	FS FS	105 85	100 90				
E	221C		E 1,3 4-8	1		13	(C) O (C) O	2(VON) 2(VON)	GRD GRD	1,19 19		0 NO	FS FS	105 85	100 90				
			7-9	700		16	(C) O (C) O	2(VON) 2(VON)	GRD GRD	1,21 21		0 NO	FS FS	105 85	100 90				
F	224CD		1,3 S-4	434		15		2(ROT) 2(ROT) 2(ROT)	BAT BAT BAT	22,23 17,22,23 20,22,24		0 NO NO	FS FS FS	26 18.5 14.7	24.5 19.5 15.5				

CIRCUIT REQUIREMENTS

APPARATUS				MECH REQ			CIRCUIT PREPARATION				TEST SET		DIRECT CURRENT FLOW REQ			TIME REQ		REMARKS		
DESIG	CODE	OPT	CKT FIG.	RESID	BSP FIG.	CONT PRES	ARM. TRVL	BLOCK OR INSULATE	TEST CLIP DATA		TEST SET PREP	SEE TEST NOTE	TEST WDG	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA		TEST SEC	READJ SEC
									CONN BAT.	CONN GRD										
T	U1409		4	III/IOI	SPL	SPL		2B,3T (T) 2B,3T (T) 3T,2B (T)	3BF(T) 3BF(T)		BAT BAT GRD	27 28	P P S	0 NO 0			110 85 25	105 90 23.5	ARM TRVL 23	
Z	225F	M	I	S-5	140		16			5(Z) 5(Z)	GRD GRD	23 23	P P	0 NO	FS FS	25.5 13.3	24 14			
Z	225F	Z A	3	S-5	140		16			5(Z) 5(Z)	GRD GRD		P P	0 NO	FS FS	25.5 13.3	24 14			
SWITCHES																				
	197CD	Y	I																29	
	197FG	D	3																29	
	197HH	ZN	1																29	
	197HJ	ZO	3																29	
	197EF	Z	1																29	

- TEST NOTES:
1. ARMATURE NEED NOT TOUCH CORE.
 2. TEST-CONT SEP MIN 3, CONT FOLLOW MIN 8.
 3. FOR USE ONLY WHEN TIME REQ ARE NOT APPLIED.
 4. FOR USE BOTH WITH AND WITHOUT TIME REQ.
 5. FOR USE WHEN TIME REQ ARE APPLIED.
 6. CONN TST JK TO SX OUT JK OF PULSING TEST SET.
 7. TST SPGS 4-5 CONT SEP MIN 8, CONT PRESS MIN 10 GRAMS.
 8. PRIOR TO ISS 3B, ARM TRVL WAS 15 AND CONT SEP 4-5 WAS MIN 3.
 9. SPGS 1&2 SHALL MAKE BEFORE SPG 1 MAKES WITH BUSHING OF SPG 4.
 10. SPGS 1&2 ONLY.
 11. WHOLE COMB.
 12. SPGS 1&2 MAY MAKE.
 13. REQUIREMENTS FOR SPGS 1-2 & 3-4.
 14. SPGS 1-2 & 3-4 SHALL MAKE BEFORE SPG 3 STRIKES BUSHING ON SPG 5.
 15. SPGS 1-2 & 3-4 MAY MAKE AND 5-6, 7-8 & 9-10 SHALL NOT BREAK ON NON-OPERATE.
 16. RESISTANCE (D) IN PARALLEL WITH PRIMARY WINDING.
 17. 2 CONTACTS MAY BREAK.
 18. SPGS 1-2 & 3-4 MAY MAKE AND 5-6 & 7-8 SHALL NOT BREAK.
 19. ADJ A "MFR DISC" REPLACED BY ADJ B.
 20. NO CONTACT MAY BREAK.
 21. ADJ B REPLACING ADJ A.
 22. CONNECT TST JK 3 TO TST JK 4.
 23. SOAK VALUE ADDED ON ISS 2D.
 24. THIS LINE ADDED ON ISS 3B.
 25. SPG 9 SHALL MAKE CONTACT WITH SPG 11 WHEN SW IS REMOVED FROM FRAME.
 26. PRIOR TO ISS 12B, THE ARM TRVL WAS 25.
 27. CONTACT MAKE 6 READJUST 4 TEST.
 28. CONNECT DIRECT BAT. TO 4BR(T).
 29. CLEARANCE BETWEEN STUD OF FIRST LEVER SPRING ON THE 11TH ROTARY STEP SPRINGS AND CAM, REQ 2.16 BSP SEC 030-705-703 SHALL BE MINIMUM .020 INCH.

DRAWING ISSUE
SH 4 &
SH 6
SEDE
SH 4
ISS 24A
28B

SD-55242-01-4

FIRST SELECTOR, AUXILIARY SELECTOR,
INTERMEDIATE SELECTOR
OR THRU SELECTOR CIRCUIT

2 SD-55242-01-4

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

EQUIPMENT NOTES: (CONT)

205. THE SWBD CABLING BETWEEN THE REL RACK MTD UNITS PER FIG. 58 AND THE SELECTOR SHELVES SHALL CONSIST OF SEPARATE CABLES FOR THE 6,7,8 & 9 LEADS TO THE SWITCH JACKS AND THE 120 IPM, LTI 120 IPM AND LTR OR GRD LEADS TO THE SHELF MISC EQUIPMENT. THE LARGEST SIZED APPROPRIATE CABLES HAVING MULTIPLES OF 20 PAIRS OF CONDUCTORS SHALL BE USED FOR CONNECTION TO SWITCH JACKS OF SELECTORS ON THE SAME FRAME OR BAY. THE UNIT PER FIG. 58 IS COVERED BY DWG J33017CT-().
206. EXISTING SWITCHES SHALL BE MODIFIED TO AGREE WITH ZO OR ZN OPTIONS BY CHANGING THE IITH ROTARY STEP SPRING ASSEMBLY TO P-15A679.
207. ON ISSUE 22D, FIG. 58 WAS RATED "MFR DISC."

FIG. 51
(MFR. DISC.)
FOR USE IN NO.1 OR 350A DIAL OFFICES

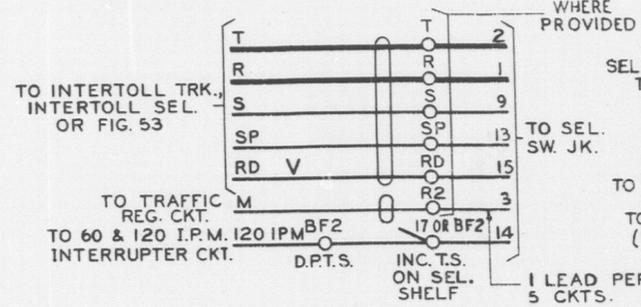


FIG. 53

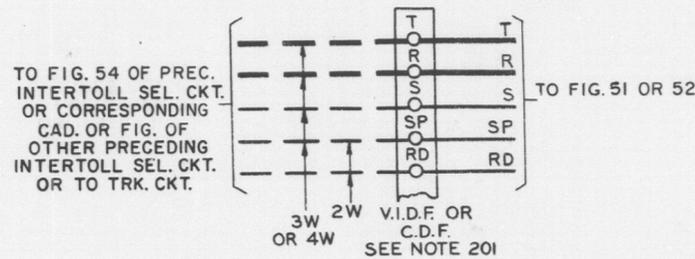
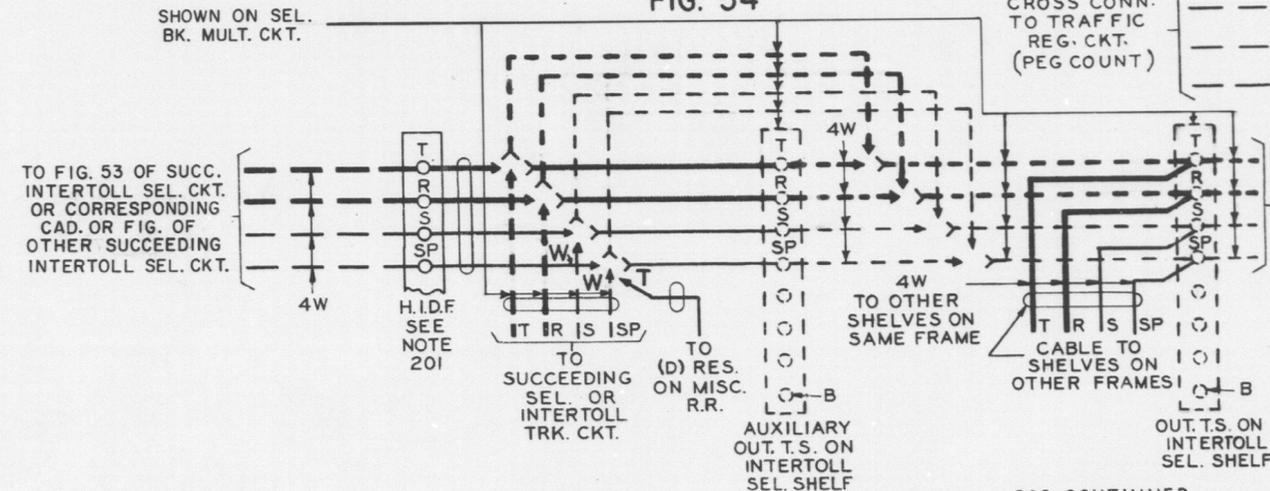


FIG. 54



EQUIPMENT NOTES:

201. TERMINATE CABLES ON LOCAL I.D.F. OR C.D.F. WHEN SELS. ARE LOCATED IN LOCAL OFFICE AND ON TOLL I.D.F. WHEN SELS. ARE LOCATED IN TOLL OFFICE.
202. ON A 10 CAPACITY SHELF, SWITCHES MAY BE GROUPED FOR TRAFFIC REGISTRATION, WHEN REQUIRED, ON A HALF OR FULL SHELF BASIS, OR ON THE BASIS OF MORE THAN ONE SHELF. WHEN GROUPED ON A FULL SHELF BASIS THE "M1" AND "M2" TERMS. AT THE DISTRIBUTING FRAME SHALL BE STRAPPED TOGETHER AND CROSS-CONNECTED TO TRAFFIC REGISTERS AS REQUIRED. FOR SWITCH GROUPS ARRANGED OVER MORE THAN ONE SHELF THE ASSOCIATED "M" LEADS OF THE DIFFERENT SHELVES SHALL BE MULTIPLIED TOGETHER AT THE DISTRIBUTING FRAME AND CROSS-CONNECTED TO THE TRAFFIC REGISTERS AS REQUIRED.
203. ON A 20 CAPACITY SHELF, SWITCHES MAY BE GROUPED FOR TRAFFIC REGISTRATION, WHEN REQUIRED, ON A QUARTER, HALF OR FULL SHELF BASIS, OR ON THE BASIS OF MORE THAN ONE SHELF. WHEN GROUPED ON A HALF OR FULL SHELF BASIS THE "M1", "M2", "M3" AND "M4" TERMS. AT THE DISTRIBUTING FRAME SHALL BE STRAPPED TOGETHER AND CROSS-CONNECTED TO THE TRAFFIC REGISTERS AS REQUIRED. FOR SWITCH GROUPS ARRANGED OVER MORE THAN

FIG. 52

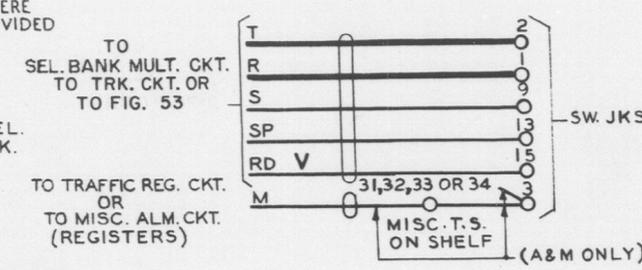


FIG. 57
(A & M ONLY)

(FOR PART OF FIG. 1 OR 3)
SEE NOTE 205

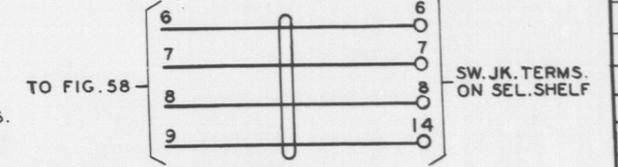


FIG. 55

(FOR PART OF FIG. 1)
10 CAPACITY SHELF UNIT
SEE NOTE 202

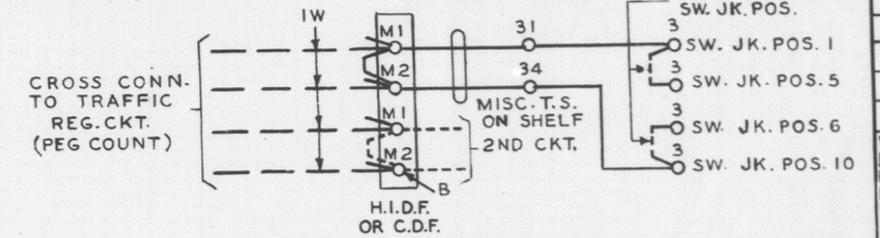
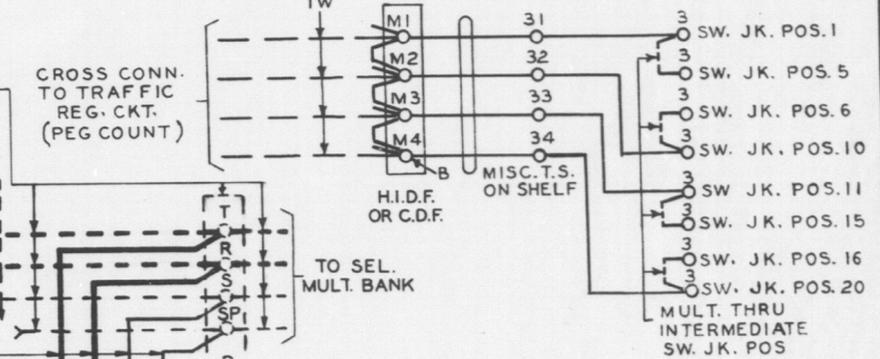


FIG. 56

(FOR PART OF FIG. 1)
20 CAPACITY SHELF UNIT
SEE NOTE 203



203. CONTINUED

- ONE SHELF THE ASSOCIATED "M" LEADS OF THE DIFFERENT SHELVES SHALL BE MULTIPLIED TOGETHER AT THE DISTRIBUTING FRAME AND CROSS-CONNECTED TO THE TRAFFIC REGISTERS AS REQUIRED.
204. IF CIRCUIT MANUFACTURED PRIOR TO 9-19-55 "ZJ" OPTION WAS NOT PROVIDED. EXISTING 197 FG SWITCHES PER "A" OPTION MAY BE MODIFIED TO "D" OPTION SWITCHES TO ADD "ZJ" OPTION BY REPLACING IITH ROTARY STEP SPRINGS AND NORMAL POST SPRINGS BY SPRING ASSEMBLIES P-16A039 AND P-15A431 RESPECTIVELY.

EQUIPMENT NOTES CONTINUED AT UPPER LEFT.

FIRST SELECTOR, AUXILIARY SELECTOR,
INTERMEDIATE SELECTOR
OR THRU SELECTOR CIRCUIT
BELL TELEPHONE LABORATORIES, INC.

SD-55242-01-5

PRINTED IN U.S.A. M

DWG. ISS.	1
	2-D
	3-B
	4-D
	5-B
	6-D
	7-D
	80
	9D
	10B
	11D
	12B
	13D
	14A
	16D
	17D
	18D
	21B
	24A
	28B

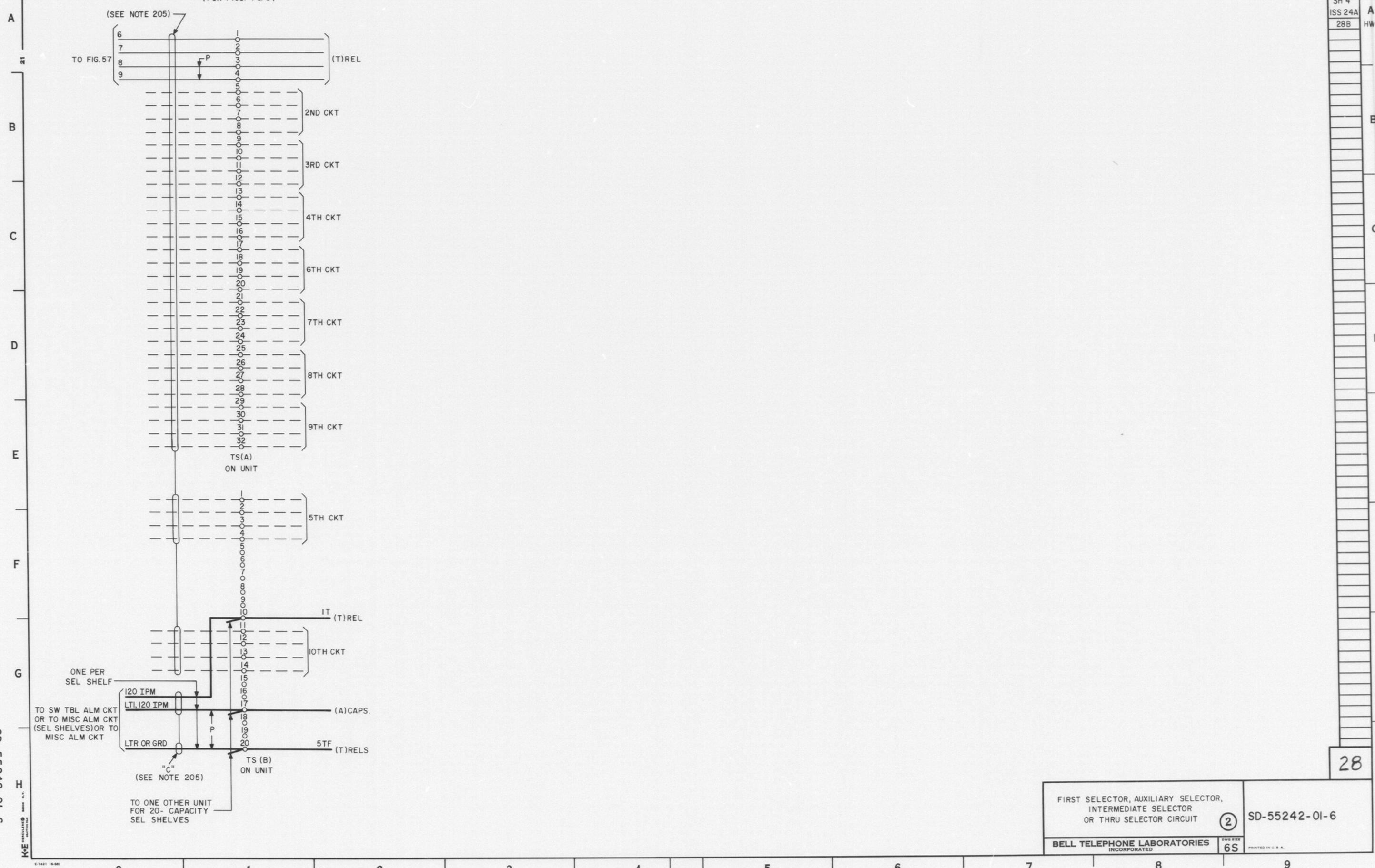
2D-55242-01-5

28

FIG. 58 (MFR DISC.)

(FOR FIGS. 4 & 5)

DRAWING ISSUE
SH 4 &
SH 6
SUPER-
SEDE
SH 4
ISS 24A
28B



SD-55242-01-6

28

FIRST SELECTOR, AUXILIARY SELECTOR, INTERMEDIATE SELECTOR OR THRU SELECTOR CIRCUIT		②	SD-55242-01-6
BELL TELEPHONE LABORATORIES INCORPORATED		DWG SIZE 6S	PRINTED IN U. S. A.

CIRCUIT NOTES: (CONT FROM SH 2)

105. PRIOR TO ISSUE 4D FIG. B WAS PART OF Z OPTION.

INFORMATION NOTES:

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT			
				STD	A&M	MD	MD EXCEPT IN 360A
2D	J OR K	K		J		K	
4D	G OR H	H		G,H			
4D							FIG. 2
4D	FIG. A OR B	FIG. B OR NONE	102 & 105	FIG. A & B			
4D	U OR P	U		P,F		U	
4D	E OR B	E		B		E	
8D				FIG. 3			
8D	FIG. C	FIG. A,B OR NONE		FIG. C		FIG. B	
8D	Z OR A	Y		A			
8D							M,Q
9D	ZC OR ZD	ZC	106	ZC & ZD			
10B	ZE OR ZF	ZE		ZF		ZE	
13D	FIG. D	FIG. A,B,C		FIG. D		FIG. C	
13D						ZD	
13D	ZG OR ZH	ZH	107	ZG	ZH		
13D	D	A,Y OR Z		D		A	
13D				FIG. 4			
13D			107	ZC			
13D	ZJ	NONE		ZJ			
13D				FIG. 5			
16D				ZH			
16D				ZC			
17D	ZK,ZL	ZH OR ZK & ZG	109, 110	ZL	ZK		
17D	FIG. E, F OR G	FIG. E & F	108, 109	E,G	E,F		
17D	ZO	A,D OR Z	108	ZO	D		
17D	ZN	Y	108	ZN	Y		
17D	ZM OR ZP	ZP	108, 111	ZP,ZM			
18D	ZQ	ZA	112	ZQ		ZA	
19D	ZR	ZF & ZR	113			ZR	
19D			114	Y			
21B	ZU OR ZY	ZY	116,118			ZU,ZY	
21B	ZX,ZW ZE OR ZR	ZR OR ZE	108, 115,118	ZW		ZX	
21B	ZW,M OR Q	M OR Q	108, 115,118	ZW			
21B	ZW,N OR Z	N OR Z	108, 115,116	ZW			
21B	ZT OR ZV	ZT	108,116	ZV		ZT	
21B	ZS,ZE ZF OR ZV	ZF OR ZE	108, 116,117	ZS	ZV	ZF	
22D						ZK,ZG	
22D						FIG. 4	
22D						FIG. 5	
22D						D	
25A	ZZ,ZS,ZV ZE,ZF	ZE,ZF ZV,ZS	108	ZZ			
27AR	YA,YB	YA	118	YA,YB			
28B	YC	NONE		YC			
30D	YD	J OR K	121	YD		J	
30D	YE	NONE	119		YE		
30D	YF OR YG	ZL	120,122	YG		YF	
31AC	YH OR ZM	ZP OR ZM	123	YH		ZP	
31AC	YI	Y	108, 124	YI		Y	
32B	DIODES		533K	446F			
32B	RESISTORS		KS-20810,LIA	221A			

106. (MFR DISC.) SEE NOTE 108

FEATURE OR OPTION	FIG.	APP OR WRG	QUANTITY
REPEATED DIGIT ABS ONLY	3,A	D	ONE PER CKT
REPEATED AND/OR ONCE ONLY DIGIT ABSORBING	3,D	D	
WITHOUT DIGIT ABS		N	
STOP DIAL SIGNAL REQUIRED		ZB	
WITH DIGIT ABSORBING		ZA	
NO LEVEL REQUIRING BOTH STOP DIAL & DIGIT ABS			
SOME LEVELS REQUIRING BOTH STOP DIAL & DIGIT ABS			
THIS CKT PRECEDED BY A TRUNK CKT ARRANGED FOR REVERSE BATTERY SUPV (SEE NOTE 302)		R,V	
THIS CKT HAVING ACCESS FROM ANY LEVEL TO RD TRUNKS EITHER DIRECTLY OR THRU SUPV CONTROL CIRCUITS (SEE NOTE 302)		S,V	
WHEN USED IN OFFICES OTHER THAN 360A		H	
		G	
MULT BANK CKT	2		
THIS CKT PRECEDED BY A TRUNK CKT ARRANGED FOR REVERSE BATTERY SUPV AND SOME TRUNKS TO WHICH SEL HAS ACCESS ARE 1200Ω OR LESS		W	
OTHERS ARE GREATER THAN 1200Ω IMPEDANCE		T	
WHEN T IS NOT REQUIRED		W	
WHERE BLOCKING IS REQUIRED	3,D	ZJ,D	
		ZG	
WHERE 120 IPM TONE IS REQUIRED	4		1 PER CKT
	5		1 PER 2 FIG. 4
STEP BY STEP CAMA SEL	1	Y,H,ZC,ZH	1 PER CKT

107. (MFR DISC.)

FOR ADDITIONS TO EXISTING NON CAMA OFFICES WHEN IT IS SPECIFIED THAT PROVISION FOR 120 IPM TONE SHOULD NOT BE FURNISHED, ZH AND ZC WIRING SHALL BE PROVIDED, AND EQUIPMENT PER FIG. 4 & 5 SHALL NOT BE FURNISHED.

108. (MFR DISC.)

FEATURE OR OPTION	FIG.	APP OR WRG	QUANTITY
NONE	1	ZN	
DIG. REPEATED DIGIT ABS ONLY	3,A	ZO	
REPEATED DIGIT ABS OR ONCE ONLY DIGIT ABS OR BOTH	3,D	ZO	
WITHOUT DIGIT ABS		ZW	
STOP DIAL SIG REQ		ZB,ZS,YB	
NO LEVEL REQUIRING BOTH STOP DIAL AND DIGIT ABS			
SOME LEVELS REQUIRING BOTH STOP DIAL AND DIGIT ABS		ZQ,ZV,YB	
WHERE BLOCKING IS REQUIRED (SEE NOTE 123)	3,D	ZO,YH&ZJ OR ZO&ZM	
WHERE 120 IPM TONE ONLY ALL TRUNKS BUSY SIGNAL IS REQUIRED (SEE NOTE 206)	G	ZL	
WHERE THIS CKT IS PRECEDED BY A TRUNK CKT ARRANGED FOR REVERSE BATTERY SUPV (SEE NOTE 302)		R,V	
WHERE THIS CKT HAS ACCESS FROM ANY LEVEL TO RD TRUNKS EITHER DIRECTLY OR THRU SUPV CONTROL CIRCUITS (SEE NOTE 302)		S,V	
WHEN USED IN OFFICES OTHER THAN 360A		H	
		G	
SEL MULT BANK CKT	2		
WHEN THIS CKT PRECEDED BY A TRUNK CKT ARRANGED FOR REVERSE BATTERY SUPV AND SOME TRUNKS TO WHICH SEL HAS ACCESS ARE 1200Ω OR LESS		W	
OTHERS ARE GREATER THAN 1200Ω IMPEDANCE		T	
WHEN T IS NOT REQUIRED		W	
DIGIT ABSORBING STOP DIAL NOT PROVIDED		ZZ,YA	

(CKT NOTES CONT ON SH 8)

109. (MFR DISC.)

FEATURE OR OPTION	FIG.	APP OR WRG	QUANTITY
	3,F	D,ZH,ZC,ZJ	
120 IPM FLASH AND TONE (SEE NOTE 110)	1,E	ZG,ZK,Y	
	4,5	ZG,ZK,Y	
	3,F	ZG,ZK,D,ZJ	
	4,5	ZG,ZK,D,ZJ	
120 IPM TONE ONLY (SEE NOTE 110)	1,E	ZG,Y	
	4,5	ZG,Y	
	3,F	ZG,D,ZJ	
	4,5	ZG,D,ZJ	

110. PRIOR TO ISSUE 17D OPTION ZK WAS PART OF OPTION ZG.

111. (MFR DISC.) WHERE BLOCKING IS REQUIRED, PROVIDE ZJ & ZP OPTIONS IF ZG OR ZH OPTION IS ALSO FURNISHED OR PROVIDE ZM OPTION IF ZL OPTION IS ALSO FURNISHED.

112. THE DIFFERENCE BETWEEN THE (Z) RELAYS IS AS FOLLOWS:



113. PRIOR TO ISSUE 19D, OPTION ZR WAS OPTION ZF IN FIG. 1

114. (MFR DISC.) THE USE OF Y OPTION IS STANDARD FOR CAMA USAGE AND A&M ONLY FOR OTHER THAN CAMA USAGE.

115. ON ISSUE 21B, ZW OPTION REPLACED N OPTION FOR NON-CAMA SELECTORS. N OPTION WAS RATED MFR DISC. FOR NON-CAMA SELECTORS.

116. PRIOR TO ISSUE 21B, ZT OPTION WAS PART OF ZA AND ZQ OPTIONS. ZY OPTION WAS PART OF M OPTION. ZU, ZX, ZW ZV OR ZS OPTIONS AND CIRCUIT NOTE 118 WERE NOT SHOWN.

117. ON ISSUE 21B, ZF OPTION WAS RATED MFR DISC., AND REPLACED BY PART OF ZV OPTION.

ON EXISTING SEL PER FIG. 1 WHERE STP DL SIG & TONE ONLY (ZL OPTION) ARE REQD (TO RMV STP DL SIG ON ATB COND) ALWAYS REQD WHEN STP DL FEAT IS PROVIDED.	EQUIPPED WITH OPTION	PROVIDE OPTION	REMOVE OPTION
	Q	ZX	ZE OR ZR
	M	ZU,ZX	ZY,ZE
	N	ZW	N AND ZE OR ZR

ON EXISTING SEL PER FIG. 3 WHERE STP DL SIG & TONE ONLY (ZL OPTION) ARE REQD (TO RMV STP DL SIG ON ATB COND) ALWAYS REQD WHEN STP DL FEAT IS REQD.	EQUIPPED WITH OPTION	PROVIDE OPTION	REMOVE OPTION
	ZB	ZS,YB	ZE OR ZF, YA
	ZA OR ZQ	ZV,YB	ZE OR ZF, ZT,YA

ON LEVELS	NORMAL POST SPRINGS WHICH ARE TO BE ADJUSTED TO OPERATE	
	FIG. 1	FIG. 3
REQUIRING REPEATED DIGIT ABSORBING	L*	LF
REQUIRING ONCE ONLY DIGIT ABSORBING	L*	RF
REQUIRING STOP DIAL SIGNAL. SWITCH NOT ARRANGED FOR DIGIT ABSORBING	L	
REQUIRING STOP DIAL SIGNAL. SWITCH ARRANGED FOR DIGIT ABSORBING	R*	RR
CONNECTED TO RD TRUNKS THRU IT. DIAL SUPV CONTROL CKT OR CONNECTED DIRECTLY TO RD TRUNKS (S OPTION UTILIZED)	R	RR
CONNECTED TO IT. DIALING SEL OR TRUNK WHERE REVERSE BATTERY SUPV IS REQUIRED (R OPTION UTILIZED)	R	RR
WHERE BLOCKING IS REQUIRED		LR

301. A) S AND R OPTIONS CANNOT BE OBTAINED ON THE SAME CKT.

B) NEITHER S OR R OPTION CAN BE OBTAINED ON THE SAME CIRCUIT WITH ZA OR ZQ OR ZB OPTION OF FIG. 3 OR WITH M OR Q OPTION OF FIG. 1.

303. (MFR DISC.) FOR SXS CAMA, CAMS SHALL BE ADJUSTED TO OPERATE THE LEFT NORMAL POST SPRINGS, FIG. 1 ON THOSE LEVELS HAVING TRUNKS TO EITHER LINK TYPE COMMUNITY DIAL OFFICES OR COMMON CONTROL TYPE OFFICES. WHEN THE CAMA SENDER IS ARRANGED TO VERIFY SP LEAD CONTINUITY ON ALL DIAL PULSE CALLS, CAMS SHALL BE ADJUSTED TO OPERATE THE LEFT NORMAL POST SPRINGS, FIG. 1 ON ALL LEVELS CONNECTING TO DIAL PULSE TRUNK GROUPS. THE EXCEPTION TO THIS CASE OCCURS WHEN THE LEVELS ARE ASSOCIATED WITH THE DIRECT TRUNKS TO COMMON CONTROL TYPE OFFICES WHICH WILL FURNISH STOP-GO SIGNALS. ON THESE LEVELS, THE LEFT NORMAL POST SPRINGS SHOULD NOT BE ADJUSTED TO OPERATE.

304. WHERE SECOND SELECTORS SERVE IN COMMON FOR CAMA AND OTHER THAN CAMA USAGE, THE ALL TRUNKS BUSY SIGNAL MAY BE 120 IPM FLASH AND TONE.

(INFO NOTES CONT ON SH 8)

CKT FIG.	APP OR WIRING				
	1	A	Z	ZA	YD
2	B	Y	ZB	YE	
3	C	X	ZC	YF	
4	D	W	ZD	YG	
5	E	V	ZE	YH	
	F	U	ZF	YI	
	G	T	ZG		
		S	ZH		
		R	ZJ		
		Q	ZK		
		P	ZL		
		N	ZM		
		M	ZN		
		K	ZO		
		J	ZP		
		H	ZQ		
		G	ZR		
		F	ZS		
		E	ZT		
		D	ZU		
		B	ZV		
		A	ZW		
			ZX		
			ZY		
			ZZ		
			YA		
			YB		
			YC		

FIRST SELECTOR, AUXILIARY SELECTOR, INTERMEDIATE SELECTOR OR THRU SELECTOR CIRCUIT

2

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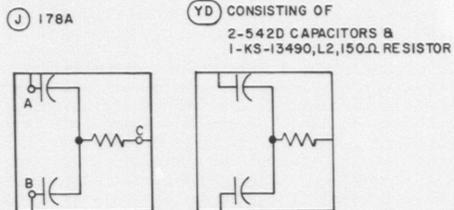
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CIRCUIT NOTES (CONT FROM SH 7)

119. OPTION "YE" PROVIDES FOR FIELD MODIFICATION OF (MFR DISC) FIG. C, TO INSURE THAT THE (D) RELAY WILL LOCK OPERATED DURING ITS SECOND-STEP OPERATION.

120. PRIOR TO ISSUE 300, "YF" WAS PART OF "ZL" OPTION.

121. THE DIFFERENCE BETWEEN THE (C) NETWORKS IS AS FOLLOWS:



122. (T) & (TI) CAPACITORS (445A), OPTION "YF" ARE RATED (MFR DISC), AND ARE SUPERSEDED BY (T) & (TI) CAPACITORS, CONSISTING OF A 580A CAPACITOR, OPTION "YG"

123. WHERE BLOCKING IS REQUIRED, PROVIDE OPTIONS ZJ & YH. IF OPT ZG OR ZH IS ALSO FURNISHED OR PROVIDE OPT ZM IF OPT ZL IS ALSO FURNISHED.

124. THE USE OF Y OPTION IS MFR DISC. FOR CAMA USAGE AND A & M ONLY FOR OTHER THAN CAMA USAGE.

INFORMATION NOTES (CONT FROM SH 7)

305. WHEN THESE SELECTORS ARE USED AS INTERTOLL SELECTORS THE CAMS SHALL BE ADJUSTED TO OPERATE PER NOTE 301. THE SELECTOR SHOULD PROVIDE THE "STOP DIAL" SIGNAL ON LEVELS WITH TRUNKS THAT TERMINATE ON EQUIPMENT ARRANGED TO RETURN A "STOP DIAL" SIGNAL, SUCH AS A LINK TYPE CDO OR A NON BY LINK COMMON CONTROL TYPE OFFICE. THE "STOP DIAL" SIGNAL CAM SHOULD NOT BE ADJUSTED TO OPERATE, HOWEVER, WHERE THE LEVEL SERVES TRUNKS ARRANGED FOR THE INTEGRITY CHECK FEATURE.

306. THE LEFT NORMAL POST SPRING SHALL BE ADJUSTED TO OPERATE ON ALL LEVELS THAT DO NOT RECEIVE AN INTEGRITY CHECK SIGNAL, A STOP-GO SIGNAL, A DELAY DIAL SIGNAL OR A WINK START SIGNAL IF THE ASSOCIATED CAMA SENDER IS EQUIPPED WITH THE SP LEAD INTEGRITY CHECK FEATURE.

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