

SHEET INDEX

SHEET INDEX																									ISSUE NO.	OLD SHEET NO.
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52	FOR FIG. 1, 2, 3, 5, OR 6																									
53	FOR FIG. 1, 2, 3, 4, OR 6																									
54	FOR FIG. 7																									
55	FOR FIG. 8																									

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING, ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. 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.
3. THE ISSUE NUMBER ASSIGNED TO A CHANGED OR NEW SHEET WILL BE THE SAME ISSUE NUMBER AS THAT OF THE SHEET INDEX
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NUMBER.
5. THE LAST ISSUE NUMBER OF THE SHEET INDEX IS RECOGNIZED AS THE LATEST ISSUE NUMBER OF THE DRAWING AS A WHOLE.
6. "OLD SHEET NO." REFERS TO SHEET NO. PRIOR TO ISSUE: 70

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT INFO	J59023G-() ED-65855-01

REPLACING SD-65716-01

SD-65727-01

W05

PBX SYSTEMS

NO. 557A

SECRETARIAL LINE AND LINE LAMP
TEST CIRCUIT

(SECR LINE)

BELL TELEPHONE LABORATORIES
INCORPORATED

35

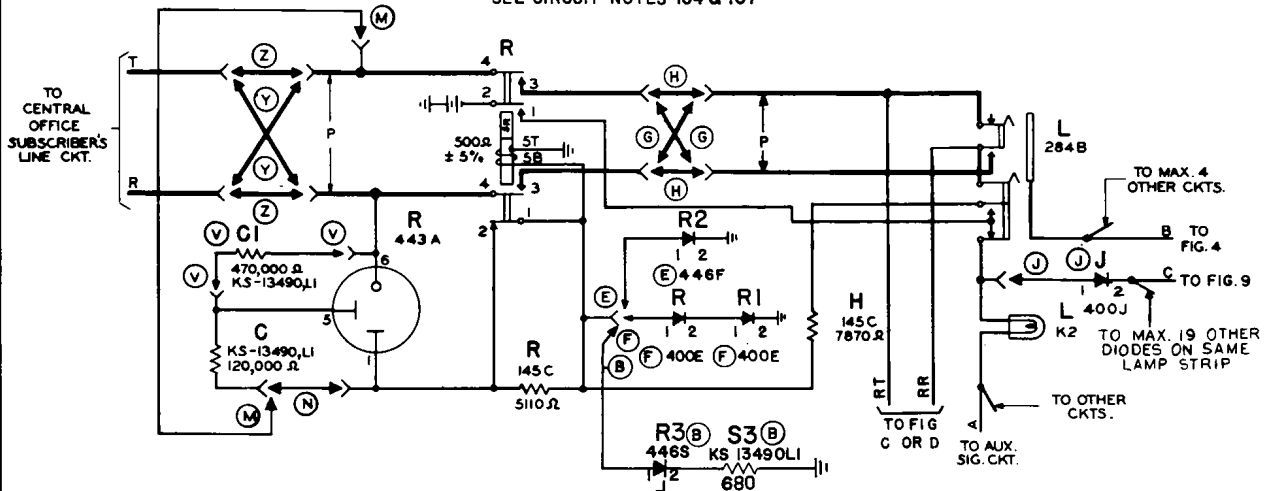
AT&TCO
STANDARD

SD-65727-01-A1
9 SHEETS

PRINTED IN U.S.A.

DWG	CD	DWG	CD	DWG	CD
ISS	ISS	ISS	ISS	ISS	ISS
1	1	20	20	3AR	20
4B	4B	5D	5D	6D	6D
DWG	CD	DATE	DATE	DATE	DATE
ISSUE	ISSUE	ISSUED	ISSUED	ISSUED	ISSUED
7D	6D	5-10-63	5-10-63	5-10-63	5-10-63
8B	6D	8-16-65	8-16-65	8-16-65	8-16-65
9D	6D	4-8-69	4-8-69	4-8-69	4-8-69

SECRETARIAL LINE CKT. WITH NON-LOCKING LINE LAMP
ARRANGED FOR SECRETY FOR USE WHERE RINGING
CURRENT IS AC-DC OR NEGATIVE SUPERIMPOSED
SEE CIRCUIT NOTES 104 & 107



TO FIG 1,2,3,6



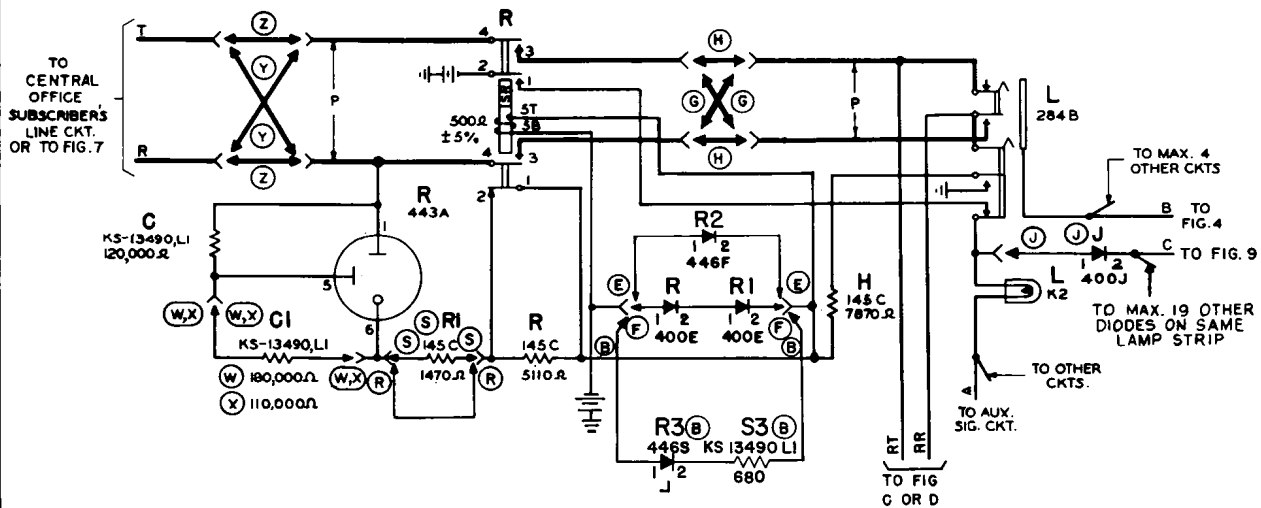
KS -13492,LI
2000Ω

TO FIG. 1, 2, 5, 6

S S RR

KS-13492, LI 1200 Ω INDR FIA 215 225 Ω

SECRETARIAL LINE CKT. WITH NON-LOCKING LINE LAMP
ARRANGED FOR SECRECY FOR USE WHERE RINGING
CURRENT IS AC ONLY OR POSITIVE SUPERIMPOSED



SD-65727-01-B1

OWNERS \$1.00
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FIG. 3
UNIVERSAL SECRETARIAL LINE CKT.
WITH NON-LOCKING LINE LAMP
ARRANGED FOR SECRECY
SEE CIRCUIT NOTES 104, 105 & 107

DRAWING ISSUE	
TO	CRA
PD	
88	JP
90	RL
	Hold

FIG. 6
UNIVERSAL SECRETARIAL LINE CKT.
ARRANGED FOR LOCKED IN LINE SIGNAL
WITHOUT SECRECY
SEE CIRCUIT NOTES 104, 105 & 107

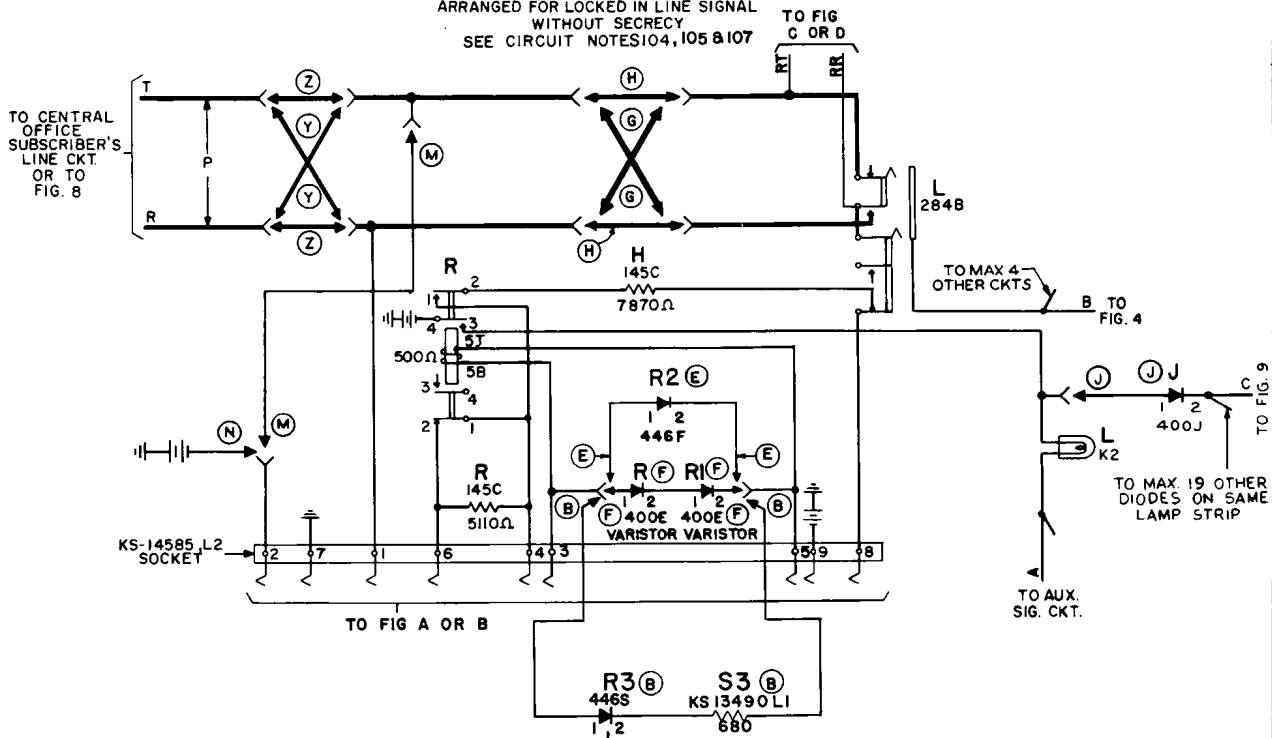
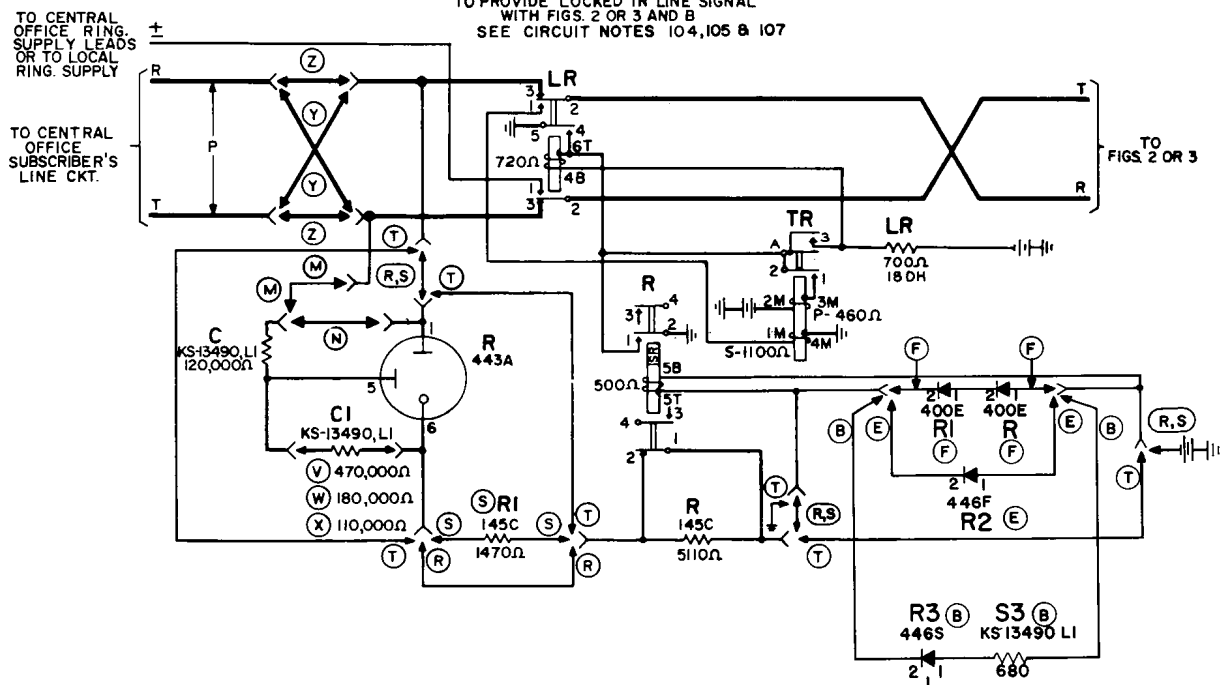


FIG. 7
APPLIQUE CKT.
TO PROVIDE LOCKED IN LINE SIGNAL
WITH FIGS. 2 OR 3 AND B
SEE CIRCUIT NOTES 104, 105 & 107



PBX SYSTEMS
NO. 557A
SECRETARIAL LINE AND LINE LAMP
TEST CIRCUIT

SD-65727-01-B3

BELL TELEPHONE LABORATORIES
INCORPORATED

3S

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DRAWING		ISSUE
TD	CRA	
PD		
08	PBS	
	J.P.C.	
	PEG	
9D	JGL	
	R.B.B.	
	H.W.	

FIG. 8
APPLIQUE CKT.
TO PROVIDE SECRECY FEATURE
WHEN FIG. 6 IS USED
SEE CIRCUIT NOTES 104 & 107

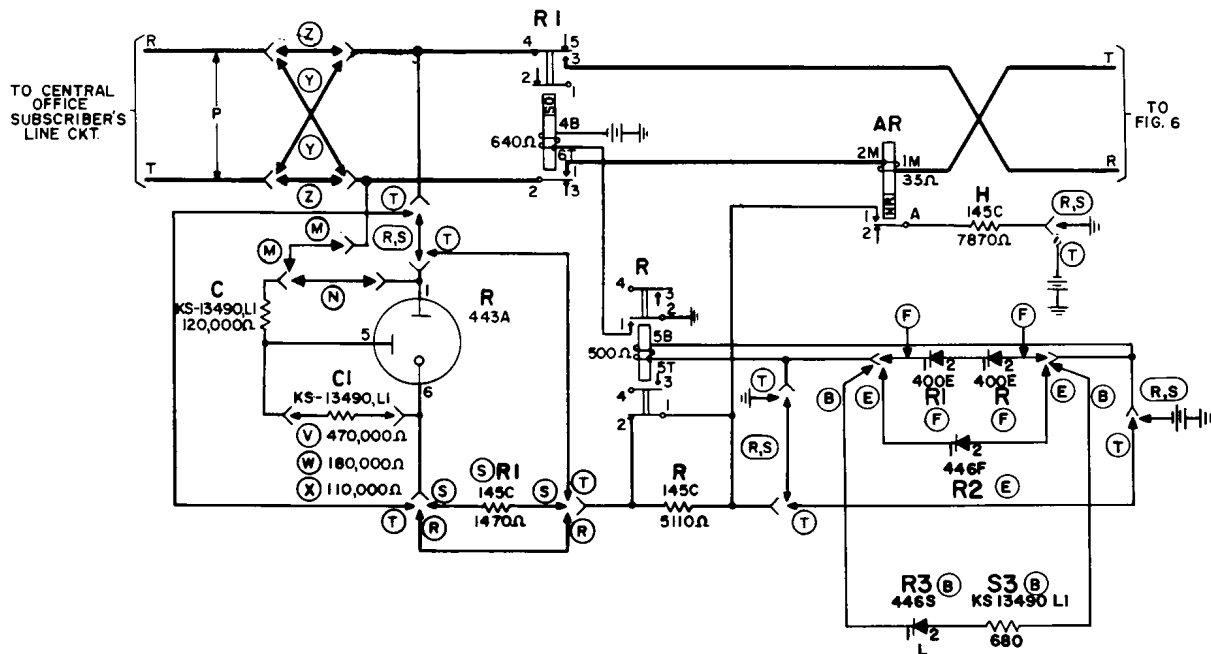


FIG. 9
LAMP TEST KEY

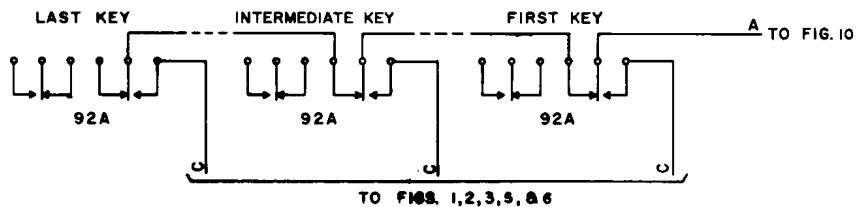
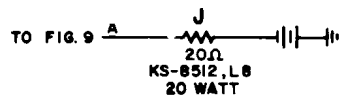


FIG. 10



CIRCUIT NOTES:

101. OBTAIN BATTERY SUPPLY FROM ASSOCIATED POSITION. OBTAIN GROUND FROM LOCAL BUILDING GROUND.

102.

FEATURE OR OPTION			PROVIDE	
			FIG. OR WIR	QUANTITY
SECRETARIAL LINE CKT WITH NON-LOCKING LINE SIGNAL AND ARRANGED FOR SECRECY-USED WITH FOLLOWING TYPES OF RINGING	AC-DC OR NEGATIVE SUPERIMPOSED		1	1 PER CKT
	POSITIVE SUPERIMPOSED		2	1 PER CKT
	AC ONLY		2	R 1 PER CKT
WITH NON-LOCKING LINE SIGNAL AND ARRANGED FOR SECRECY-USED WITH THE FOLLOWING TYPES OF RINGING	AC-DC OR NEGATIVE SUPERIMPOSED		3,A	1 PER CKT
	POSITIVE SUPERIMPOSED		3,B	1 PER CKT
	AC ONLY		3,B	R 1 PER CKT
WITH LOCKING LINE SIGNAL NOT ARRANGED FOR SECRECY-USED WITH THE FOLLOWING TYPES OF RINGING	AC-DC OR NEGATIVE SUPERIMPOSED		6,A	1 PER CKT
	POSITIVE SUPERIMPOSED		6,B	1 PER CKT
	AC ONLY		6,B	R 1 PER CKT
APPLIQUE CKT REQUIRED TO CONNECT TO FIG. 2 WITH "R" & "Y" OPTIONS OR TO FIG. 3 & 8 WITH "R" & "Y" OPTIONS	AC-DC OR NEGATIVE SUPERIMPOSED		7	T 1 PER CKT
	POSITIVE SUPERIMPOSED		7	S 1 PER CKT
	AC ONLY		7	R 1 PER CKT
FOR LOCKING LINE SIGNAL-USED WITH THE FOLLOWING TYPES OF RINGING	AC-DC OR NEGATIVE SUPERIMPOSED		7	T 1 PER CKT
	POSITIVE SUPERIMPOSED		7	S 1 PER CKT
	AC ONLY		7	R 1 PER CKT
APPLIQUE CKT REQUIRED TO CONNECT FIG 6 & 8 WITH "R" AND "Z" OPTION FOR SECRECY-USED WITH THE FOLLOWING TYPES OF RINGING	AC-DC OR NEGATIVE SUPERIMPOSED		8	T 1 PER CKT
	POSITIVE SUPERIMPOSED		8	S 1 PER CKT
	AC ONLY		8	R 1 PER CKT
RESISTANCE LAMP CKT			4	1 PER 10 FIG. 1, 2, 3, 5 OR 6
RINGING RECEIVED ON	RING CONDUCTOR			Z
	TIP CONDUCTOR			Y
RINGING CURRENT IS	POSITIVE SUPERIMPOSED AND SILENT INTERVAL BATTERY IS	60-75 VOLTS		X
		45-52 VOLTS		W
	NEGATIVE SUPERIMPOSED AND SILENT INTERVAL BATTERY IS 60-75 VOLTS			V
CONCENTRATOR IDENTIFIER LINE			5	1 PER CKT
LAMP TEST CIRCUIT	TEST KEY		9	1 KEY PER 20 LAMPS
	TEST LINE RESISTOR		10	1 PER INSTL
DIAL EXCLUSION	ROTARY			H
	TOUCH-TONE	Z WIRING SPECIFIED		G
		Y WIRING SPECIFIED		H

103.

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	M.D.
4B	Q OR U	U		Q		U
6D	M OR N	N		M OR N		
6D		NONE		J		
8B	FIG C OR D	FIG C		FIG D		FIG C
8B	G OR H	H		G OR H		
8B	E OR F	F		E		F
9D	B OR E	E		B		E

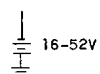
104. PROVIDE "M" OPTION WHEN SECRETARIAL LINE CIRCUIT IS CONNECTED FOR AC-DC, RING CURRENT OR NEGATIVE SUPERIMPOSED AND IS SUBJECT TO AUTOMATIC NUMBER IDENTIFICATION OR TO TWO PARTY FLAT RATE TESTS USING NEGATIVE COIN BATTERY.

105. USE "N" WIRING WITH FIG. B.

106. REFERENCE TO "Y" OR "Z" WIRING APPLIES ONLY WHEN FIGS. 1, 2, 3 OR 6 ARE USED ALONE. WHEN CONNECTING TO FIG. 7 WHICH HAS "Y" WIRING PROVIDE "G" IN FIG. 2 OR 3. WHEN CONNECTING TO FIG. 8 WHICH HAS "Y" WIRING PROVIDE "H" IN FIG. 6. (FOR TOUCH-TONE DIAL EXCLUSION, TIP POTENTIAL OF THE JACK SHALL ALWAYS BE NEGATIVE)

107. OPTION B PROVIDES DIAL PULSE TRANSIENT PROTECTION IN SXS OFFICES.

DRAWING ISSUE	
7D	CRA
8B	PD
9D	RBB JPE PEG JBL RBB WUL



WORKING LIMITS

NO. OF MAIN STATION RINGING BRIDGES	MAX. EARTH POTENTIAL				±5V	
	CONDUCTOR LOOP TO PBX FROM ALL CENTRAL OFFICES EXCEPT NO. 1 CROSSBAR				CONDUCTOR LOOP TO PBX FROM NO. 1 CROSSBAR CENTRAL OFFICE	
	SUPERIMPOSED RINGING 84-88V AC, 37-40V DC 10,000Ω LEAK		AC-DC RINGING 84-88V AC, 45-52V DC 10,000Ω LEAK		AC-DC RINGING 95-103V AC, 16-19V DC WITH 48V SILENT INTERVAL 10,000Ω LEAK	
1	1350	1600	2000	2000	200	500
2	1150	1500	1800	2000		200
3	700	1200	1400	2000		
4	500	900	1200	1000		
4	100	100	100	100		

FIGURES AND OPTIONS ON THIS DWG			
CKT FIG.	APP OR WIRING		
1	A	Z	
2	B	Y	J
3	C	X	H
4	D	W	G
5		V	F
6		U	E
7		T	B
8		S	
9		R	
10		O	
11		N	
12		M	

PBX SYSTEMS		SD-65727-01-D2
NO. 557A SECRETARIAL LINE AND LINE LAMP TEST CIRCUIT		
BELL TELEPHONE LABORATORIES INCORPORATED	DWG SIZE 3S	

