31

21

SHEET INDEX

CONTENTS	SHEET NO.	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	SHEET NO.
SHEET INDEX SUPPORTING INFORMATION	A1	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																										A1
APPARATUS INDEX LEAD INDEX OPTION INDEX	A2	5	6	7	8	8	10	11	12	13	13	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29																										A2
FS 1 TIP AND RING CONTROL	B1	5	5	5	8	8	10	11	12	12	12	12	12	17	18	19	19	21	22	22	24	24	26	27	27	29																										B1
FS 2 PULSE COUNTING	B2	4	6	7	7	7	10	10	10	10	10	10	10	10	18	19	19	19	22	22	22	22	22	22	22	22																										B2
PART OF FS 3 STEERING	B3	4	6	6	8	8	10	10	10	13	14	14	16	16	18	19	20	20	22	22	24	24	24	24	28	29																										B3
FS 4 CLASS OF SERVICE FS 5 ALARM CONTROL	B4	5	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	24	25	26	26	28	29																										B4
PART OF FS 3 STEERING	B5	4	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	24	24	24	24	28	28																										B5
FS 6 KEY PULSING CONNECTOR AND CONTROL CIRCUIT	B6	4	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																										B6
FS 7 ATTENDANT DIRECT STATION SELECTION CONNECTOR AND CONTROL CIRCUIT	B7						10	10	10	13	13	13	13	17	17	17	17	17	17	17	17	17	17	17	17	17																										B7
FS 8 SINGLE DIGIT DIALING TIMING AND CONTROL CIRCUIT FS 9 TOUCH TONE CALLING TRANSLATION CKT FS 1C TOUCH TONE CALLING RECEIVER - TYPE C1	B8						10	10	10	13	13	15	15	17	18	19	19	19	22	23	24	24	24	24	24	29																										B8
APP FIG. 1,2,3,4	C1	5	6	7	8	8	10	11	12	12	12	12	12	17	18	19	20	20	22	22	24	24	26	26	28	29																										C1
APP FIG. 5,6,7,8,9	C2						10	10	10	10	10	15	15	17	18	19	19	21	22	23	24	24	24	24	24	24																										C2
CKT NOTES 101-TO END WORKING LIMITS	D1	5	6	7	8	8	10	11	12	13	13	13	16	17	18	19	20	21	22	23	24	25	26	27	28	29																										D1
INFORMATION NOTES 301-303	D2	1	1	1	1	9	10	10	10	10	10	10	10	10	10	19	19	19	19	19	19	19	19	19	19	19																										D2
SC 1 STATION TO STATION CALL SC 2 ABANDONED CALL (CALL ABANDONED BEFORE DIALING BUT AFTER REGISTER IS CONNECTED TO CALLING STATION) SC 3 ABANDONED CALL (CALL ABANDONED AFTER DIALING BUT BEFORE TIME OUT PER SC 24 AND BEFORE MARKER HAS COMPLETED PROCESSING THE CALL)	E1	5	5	5	5	5	5	5	5	5	5	5	5	5	18	18	18	18	18	18	18	18	18	27	27	27																										E1
SC 4 RESTRICTED STATION DIALS 9 SC 5 RESTRICTED STATION TO CODE 8 TRUNK CALL (Y OPTION) SC 6 TOLL DENIED STATION TO CENTRAL OFFICE TRUNK CALL (ONE DIGIT TRUNK CODE V OPTION) SC 7 TOLL DENIED STATION TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL (TWO DIGIT TRUNK CODE T OPTION)	E2	5	5	5	5	5	5	5	5	5	5	5	5	17	18	18	18	18	18	18	18	18	18	27	27	27																										E2
SC 8 RESTRICTED STATION TO CODE 8 TRUNK CALL (X OPTION) SC 9 STATION OR TRUNK DIALS UNEQUIPPED CODE (W OR Z OPTION) SC 10 PERMANENT SIGNAL TIME OUT	E3	5	5	5	5	5	5	5	5	5	5	5	5	17	18	18	18	18	18	18	18	18	18	27	27	27																										E3
SC 11 PARTIAL DIAL TIME OUT SC 12 CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO STATION CALL SC 13 CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO CODE 8 TRUNK CALL	E4	5	5	5	5	5	5	5	5	5	5	5	5	5	18	18	18	18	18	18	18	18	18	27	27	27																										E4
SC 14 DIAL REPEATING TIE TRUNK TO STATION CALL SC 15 DIAL REPEATING TIE TRUNK TO CODE 8 TRUNK CALL SC 16 RESTRICTED DIAL REPEATING TIE TRUNK DIALS 9 SC 17 TOLL DENIED DIAL REPEATING TIE TRUNK DIALS 9 CODE SC 18 TOLL ALLOWED STATION TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL SC 19 TOLL ALLOWED DIAL REPEATING TIE TRUNK TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL SC 20 CALLED STATION OR TRUNK BUSY AND BUSY TONE TRUNK ALSO BUSY SC 21 ATTENDANT TRUNK TO STATION CALL	E5	5	5	5	5	5	5	5	5	5	5	5	5	5	18	18	18	18	18	18	18	18	18	27	27	27																										E5
SC 22 ATTENDANT TRUNK TO CODE 8 TRUNK CALL SC 23 STATION TO ATTENDANT TRUNK CALL SC 24 DIAL COMPLETION TIME OUT	E6	5	5	5	5	5	5	5	5	5	5	5	5	5	18	18	18	18	18	18	24	24	24	27	27	27																										E6
SC 25 INTERRUPTER OPERATION SC 26 SEQUENCE CHART FOR P1,P2,P3, P4, AND P5 RELAYS	E7	5	5	5	5	5	5	5	5	5	5	5	5	17	17	17	17	17	17	17	17	17	17	17	17	17																										E7
SC 27 DIRECT STATION SELECTION BY ATTENDANT (ZB OPTION) SC 28 SINGLE DIGIT DIALING (ZC OPTION) SC 29 TOUCH TONE CALLING INTO REGISTER	E8	5	5	5	5	5	10	10	10	10	10	15	15	15	18	19	19	19	19	19	24	24	24	27	27	27																										E8
CKT REQT TABLES, AC TO TDO	F1	5	5	5	5	9	10	10	10	10	10	15	15	15	18	19	19	19	22	22	22	22	26	26	26	26																										F1
CKT REQT TABLES, T1A TO END	F2	5	5	5	5	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																										F2

E-7595 (4-58)

SUPPORTING INFORMATION

CATEGORY	NO.
NO. 756A PBX CABLING DIAGRAM	SD-65746-01
EQUIPMENT DWG	J-58829AC J-58829 J-( ) J-58829H-( )

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.

DWG ISSUE	CKT ISSUE			
1	1			
4B	3B			

DWG ISSUE	CKT ISSUE	DATE ISSUED	DRAWN	APP'D
5B	4B	7-30-59	C.A.S. L.H.E.	[illegible]
6D	5D	1-15-60	LMC H.P	[illegible]
7B	6B	3-31-60	J.L. H.P.	[illegible]
8D	7D	6-28-60	W.C.S. M.R	[illegible]
9B	8B	8-17-60	[illegible]	[illegible]
10B	9B	8-18-61	CRA	PQ
11B	10B	11-15-61	JAF WVH	WV HF PO
12AC	10B APP 1AC	11-15-61	JAF WVH	WV HF
13D	10B APP 2D	2-28-62	PWC J.B.S	AE HF PD
14D	10B APP 3D	3-19-62	RAH CND	PO
WORN DRAWING REPRODUCED WITHOUT CHANGE 4-25-62				
15AR	11AR	1-9-63	LJL WVH	SZ HFH PD
16AC	11AR APP 1AC	1-9-63	LJL WVH	SZ WFH PD
17B	11AR APP 2B	4-18-63	EG WVH	EW WFH PD
18B	12B	11-27-63	R.T. KB	CHS PD
19B	12B APP 1B	11-27-63	JJG SJF	[illegible] PD
20B	13B APP2B	7-2-64	RWP SAK RWC	GAM RPV KFJ
21B	12B APP 3B	10-29-64	WAM SAK	RAV KFJ
22D	12B APP4D	2-3-65	RKU SAK	WES RAV KFJ
23AC	12B APP[illegible]C	2-[illegible]-65	RKU SAK	WES RAV KFJ
24B	13B	6-23-66	CNL SAK RCL	WES LAH GFH
25D	13B APP 1D	6-23-66	CNL SAK RCL	WES LAH GFH
26D	13B APP2D IRE	10-20-66	BCM PJS RCL	HED LAH RHF
27D	13B APP 3D	5-18-67	PMC PJS U.T.	JJM LAH RHF
28A	13B APP 4A	9-28-67	TEF PJS RCL	WPP LAH RHF
29B	13B APP5B	4-29-68	ROZ PJS RCL	[illegible] LAH LAU

29

1J07

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT

②
(DP REG)

AT & T CO
STANDARD

SD-65742-01-A1
24 SHEETS

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

PRINTED IN U.S.A.

SD-65742-01-A1

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
A[illegible]	7D7	2	6(G,H)
BY	1B3	1	6(C,F)
C[illegible]T	4C0	2	6(B,E)
D[illegible]	3F5	3	6(A,D)
K[illegible]	6D4	2	6(B,E)
[illegible]	1G0,6D5	2	6(B,E)
L[illegible]	1F2	3	6(A,D,)
O[illegible]	1F8	2	6(B,E)
O[illegible]	3E9	3	6(A,D)
P[illegible]	2B6	1	6(C,F)
P[illegible]	2C6	1	6(C,F)
[illegible]	2E2,2F2	1	6(C,F)
P[illegible]	2D6	1	6(C,F)
P[illegible]	2G6	1	6(C,F)
P[illegible]	2H6	1	6(C,F)
P[illegible]I	6D2,7D3	4	6(G)
P[illegible]	6H2,7G3	4	6(H)
PU	1A1	2	6(B,E)
RA	1E6	1	6(C,F)
RRLA	1B5	2	6(B,E)
RRLB	1C5	2	6(B,E)
RT	1D3	2	6(B,E)
[illegible]V	1A5	1	6(C,F)
[illegible]	8A3	5	6(G,H)
[illegible]	1G3	2	6(B,E)
[illegible]R	3F7	3	6(A,D)
[illegible]	3H0	3	6(A,D)
TD1,2,3,4,5	3B5	3	6(A,D)
TD6,7,8,9,0	3E5	3	6(A,D)
TLA	4C0	2	6(B,E)
TLD	4A0	2	6(B,E)
TMO	1C1	2	6(B,E)
TR	3E7	3	6(A,D)
T[illegible]	4B0	2	6(B,E)
U[illegible]	3F8	3	6(A,D)
UD1,2,3,4,5	5C1	3	6(A,D)
UD6,7,8,9,0	5C4	3	6(A,D)
CAPACITORS			
C[illegible]	8C3	5	6(B,E)
L[illegible]	1D3	1	6(C,F)
P[illegible]	1F3	3	6(A,D)
T	8B3	5	6(A,D)
T[illegible]	1E4	1	6(C,F)
CONNECTOR			
A	8E9	8	
J1	8F3	9	1(U,V)
DIODE			
KP	3H0	3	
KRA	3F7	2	
SD4	8A1	7	
SDA	8B3	5	
TM	3G5	3	
Z	8B2	5	

DESIG	LOCATION FS	APP FIG.	EQPT
JACKS			
TST	1C3	1	6(C,F)
LAMPS.			
RT	4E9	2	6(B,E)
POTENTIOMETERS			
R	8B2	5	
REPEATING COILS			
TN	1D3	1	6(C,F)
RESISTOR			
DT	1E4	8,9	
H	1C0	1	6(C,F)
L	1F2	3	6(A,D)
LU	1G3	1	6(C,F)
LW	1D3	1	6(C,F)
P1	2B4	1	6(C,F)
P2	2C3	1	6(C,F)
RB	8C2	5	6(A,D)
RC	8B3	5	6(A,D)
RE	8B2	5	6(A,D)
RF	8B2	5	6(A,D)
S	1D0	1	6(C,F)
T	1D1	1	6(C,F)
TN	1E3	1	6(C,F)
TRANSISTORS			
T	8B3	6	

LEAD INDEX

DESIG	FS LOC
LINE, LINK AND MARKER CIRCUIT	
A	8F0
B	8E0
BAT.	1G5
BY	1B3
C	8D0
COT	4C2
CPC	4E7
CTA	4E2
CTB	4E2
D	8D0
DC1	4D8
DC2	4D7
DC3	4D8
DC4	4D7
E	8G0
F	8F0
G	8H0
H	8G0
JTA	4A7
JTB	4B7
KPC0	7D9
KPC1	7D9
ON	4D2
ONB	4D2
ONG	4D3
PCG	4F7
R	1C0
RA	1B5
RA1	1B5
RB	1B5
RB1	1C5
RCTA	4B7
RCTB	4C7
RHM	1G4
RRA	1B8
RRB	1C8
RRT	4B2
RV	1A8
S	1D0
T	1C0
T0	3C9
T2-T9	3C9
TLA	4C2
TLD	4A2
TL0	4G2
TL1	4G2
TPC	4E7
TR0	4F0
TR1	4F2
TT0	4H1
TT1	4H1
U0-U9	3G4 5E3
ALARM TRANSFER AND TEST CIRCUIT	
PL	4G5
PLB	4H5
RT	4H5
RT1	4H5
C.D. TRK CIRCUIT	
LD	8D1 8F1 8G1 8H1

DESIG	FS LOC
CORDLESS POSITION CIRCUIT	
ARB	7E2
H1	7D2 7H2
HA	7E2
HA1	3F9
HA2	3F9
KP0-KP9	6C1 6G1
KRA0	6D1
KRA1	6H1
SG2	6D1 6H1 7D2 7H2
SG3	6D1 6H1 7D2 7H1
T2-T8	7B2 7F2
U0-U9	7C2 7G2
DIRECT STATION SELECTION CONNECTOR AND CONTROL CIRCUIT FOR STATIONS	
PR	3G9
R0	1F3
RI	1F3
RB	1F3
RC	1F3
RG	1F3
T0	3D0
T2-T9	3D0
U0-U9	5A3
UD1	3G9
UD2	3F9
POWER SUPPLY CIRCUIT	
BT	1E5
DT	1E5
MS	1B0
PU	1B0
TM	1B0

DESIG	FS LOC
SIGNALING CIRCUIT TONE GEN FOR PBX "TOUCH-TONE" CALLING	
TT1	1D5
"TOUCH-TONE" CALLING RECEIVING CKT TYPE A2 OR A3	
-48	8G3
GRD	
HG(1-3)	
LG(1-4)	
R	
STR	
T	
"TOUCH-TONE" CALLING RECEIVING CKT TYPE C1	
-48	8D8, 8E9
A	
B	
0(0-9)	
GRD	
P	
R	
STR	
T	
MAKE BUSY AND BUSY DISPLAY CIRCUIT	
MB	1H3
RHM	1H3

OPTION INDEX

APP OR WIR	LOCATION
5	APP FIG. 5, 5B6
6	APP FIG. 6
7	APP FIG. 7
9	APP FIG. 9
Z	3C9
Y	3C7, 3C8
X	3C7, 3C8
W	3C7
V	3E8
T	3E8
S	4A1
R	2E5, 3G1, 3G5, 3H0, 3H1
Q	APP FIG. 2, 3, 4, 3A0, 3G4, 7D8, 3F4, 5D4
N	4B1
M	4B0, 4B1
K	APP FIG. 2
J	APP FIG. 2
H	2B5
G	
F	1A0
E	1A0
B	3F7
A	3F7
ZA	3H4, 3H5
ZB	APP FIG. 2, 3, 4, 3A0, 3F8, 3G4, 3G8, 3H4, 3H5, 7D8, 3G6, 8D4
ZC	8C1
ZD	1E3
ZE	1E3, 3F0, 3F8, 3G9, 5A6
ZF	1F8, 1G4
ZG	1F8, 1G4
ZH	1B6, 1C6
ZI	3C7
ZJ	1D0, 1E0, 1F0
ZK	3C7
ZL	3G0
ZM	3A0
ZN	APP FIG. 1, 1D3
ZO	1C0
ZP	3GD
ZQ	3E7
ZR	3E8
ZS	8G0
ZT	7D2
ZU	1D3
ZV	1D3
ZW	1E4
ZX	APP FIG. 1
ZY	APP FIG. 1, 8 & 9
ZZ	APP FIG. 5, 8C3
YA	APP FIG. 5, 8C3
YB	3F4
YC	APP FIG. 3, 3F4
YD	3F7
YE	APP FIG. 2, 3F7
YF	1E5
YG	1E5
YH	APP FIG. 1, 1E4
YI	8F8
YJ	8F8

APP OR WIR	LOCATION
YK	APP FIG. 3, 8A8-8H8
YL	APP FIG. 8, 8A8-8H8
YM	8B2
YN	APP FIG. 5, 8B2
YO	1E1
YP	1D1 APP FIG. 1
YQ	4H1
YT	APP FIG. 3, 3H0
YU	APP FIG. 3, 3H0
YV	APP FIG. 5, 8B2, 8B3
YW	APP FIG. 5, 8B2, 8B3
YX	APP FIG. 7, 8A1
YY	APP FIG. 7, 8A1
YZ	4G1, 4G2
XA	1A5, 1A6
XB	1A5, 1A6, 4E1, 4G1, 4G2
XC	4H1
XD	4H1
XE	1G3, 1G4
XF	1D2, 1G3, 1G4, 1H4
XG	1A2, 1G3, 8A7, 8B1, 8F3
XH	1A2, 1G3, 3G6, 8A7, 8B1, 8F3
XI	4D1
XJ	3H7, 4D1
XK	8B1, 8C1

DRAWING ISSUE	
SUPERSEDES ISS 23AC	HW
24B	SAK GFH
25D	SAK GFH
26D	FED PJS RHP
27[illegible]	RMC PJS RHP
28A	TEF PJS RHP
29B	ROZ PJS LDJ

29

DIAL PULSE REGISTER CIRCUIT ②

SD-65742-01-A2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PRINTED IN U.S.A.

FS 1
TIP AND RING CONTROL

TO POWER SUPPLY CIRCUIT

TO LINE, LINK AND MARKER CIRCUIT

LINE, LINK AND MARKER CIRCUIT

LINE, LINK AND MARKER CIRCUIT

POWER SYSTEMS SIGNALING CIRCUIT 404C T.G

PWR SUP CIRCUIT

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS

MAKE BUSY AND BUSY DISPLAY CIRCUIT

LINE, LINK AND MARKER CIRCUIT

DRAWING ISSUE	
1	J.C. FGS
2B	PJH CMG R.M.C. LGK
3D	R.M.C. LGK
5B	FJS VMB
8D	VS R.R.
10B	ES MA POB
11B	JAM WWH PD
12AC	JAM WWH PD
17B	EG WWH PD
18B	R.T. KB P.D.
19B	JJG SJF PD
21B	WWH SAK KFJ
22D	RKU SAK
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-3-66	
24B	CWL SAK &FH
26D	FED PJS RHP
27D	PMC PJS RHP
29B	ROZ PJS LDJ

29

DIAL PULSE REGISTER CIRCUIT (2)

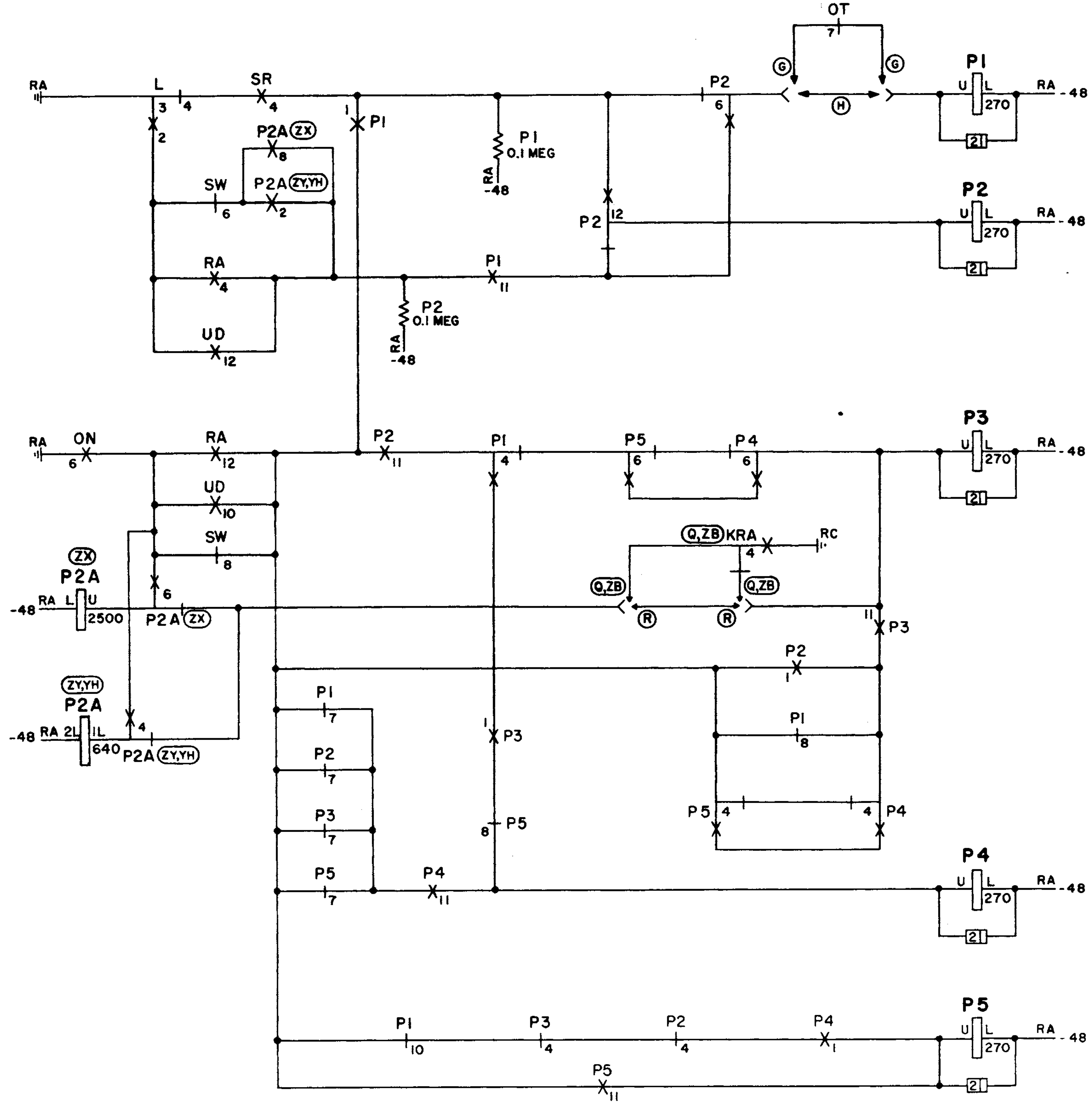
SD-65742-01-BI

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-65742-01-BI

FS 2
PULSE COUNTING



DRAWING ISSUE	
1	
4B	
6D	
7B	
10B	
18B	
19B	
22D	

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-65742-01-B2

SD-65742-01-B2

PART OF FS 3
STEERING

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS

TO LINE, LINK AND MARKER CIRCUIT

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS

TO CORDLESS POSITION CIRCUIT

TO LINE, LINK & MKR CKT

5A3

8A0

8G3, 6B6, 6G6, 8D6 Q,ZM,9

7A8, 7F8

DIAL PULSE REGISTER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED

SD-65742-01-B3

SD-65742-01-B3

DRAWING ISSUE

1	J.C. F&S	Lucas
48	C.M. J&S	T.E.B
60	L.M.C. K.V. V.S. M.R.	P.O.B.
8D		TEB
10B	E.S. CRA P.O.B.	
13D	P.C. J&S PD	
14D	RAH CHD POB	
16AC	L.J.L. WYH PD	
18B	R.T. K.B. P.D.	
19B	J.J.G. S.J.F. P.D.	
20B	R.W.P. SAK K.F.J.	HW
22D	R.K.U. SAK K.F.J.	
WORN DRAWING REPRODUCED WITHOUT CHANGE 6-3-66		
24B	L.R.T. SAK G.F.H.	
28A	T.E.F. F.J.S. R.H.P.	
29B	R.O.Z. P.J.S. L.D.J.	

29

FS 4
CLASS OF SERVICE

LINE, LINK AND MARKER CIRCUIT

TLD RC U L 700 — TLD I, TLA 11, COT 11 (K) — RA-A
TT RC 1L 2L 960 — TR 9, TT 1, COT 9 — RTT — RA-A
TLA RC 1U 2U 960 — TLA 12, COT 11 (J) — TLA — RA-B
COT RC U L 2500 — COT 10 — COT — RA-A — -48
ON -48 — ON — (XJ) (XI) — ON 10 — RB -48
ONB — RA- — ONG — RT 5 — ON 6 — RA
ON -48 — ON 8 — -48
3H7

COTA: -48 RB — COT 1 — CTA — RPA- — COTA; IA5 RV (XB)
COTB: -48 RB — COT 2 — CTB — RPA- — COTB

RA — TT 2 — TRO — RCB- — TTO
RA — TT 3 — TRI — RCB- — TTI
COT 6,4 (YZ,XB) — RC — TLA 9 (YZ,XB) — TLO — RCB- — TLAO
COT 12 (YZ,XB) — RC — TLA 10 (YZ,XB) — TLI — RCB- — TLAI

(YQ) TTO — RCA- — TDM-
(XD) COT 6 (XC) (XD) — TT 5 — (YQ) TTI — TKB9 — -48; TKB8 — -48
MULT TO OTHER REGISTER

LINE, LINK AND MARKER CIRCUIT

-48 RC — DC 12 — OT 10 — TR 10 — COT 3 — TMO 5 — JTA — RPA- — JTA
-48 RB — TMO 9 — RCTA — RPA- — RCTA
OT 6 — TR 8 — COT 5 — TMO 12 — JTB — RPA- — JTB
RCTB — RPA- — RCTB
DC(2,4) — R-
DC(1,3) — TMO 10 — DC 2 — BY 9

TT 4 — TPC — RG-
COT 8 — CPC — RG-
PCG — RA-A

RT: -48 RB — 6 — RB; RT

FS 5
ALARM CONTROL

RT 4 — PL — TR — TR; PLB — TR — -48
DC 11 — RT — A2 — A3 — A4 — -48
RTI
ALM, TRANS & TST CIRCUIT

DRAWING ISSUE

1	JC FGS	WS
2B	PJS LHE	RAC
5B	FJS LHE	POB
6D	LMC HP	POB
10B	E.S. CRA POB	A NY
24B	CHG SAK GFH	HO
25D	CHG SAK GFH	HW
26D	FED PJS RHP	B
28A	TEP PJS RHP	

WORN DRAWING REPRODUCED WITHOUT CHANGE 9/28/67 JJR.

29B	ROZ PJS LDJ	C

29

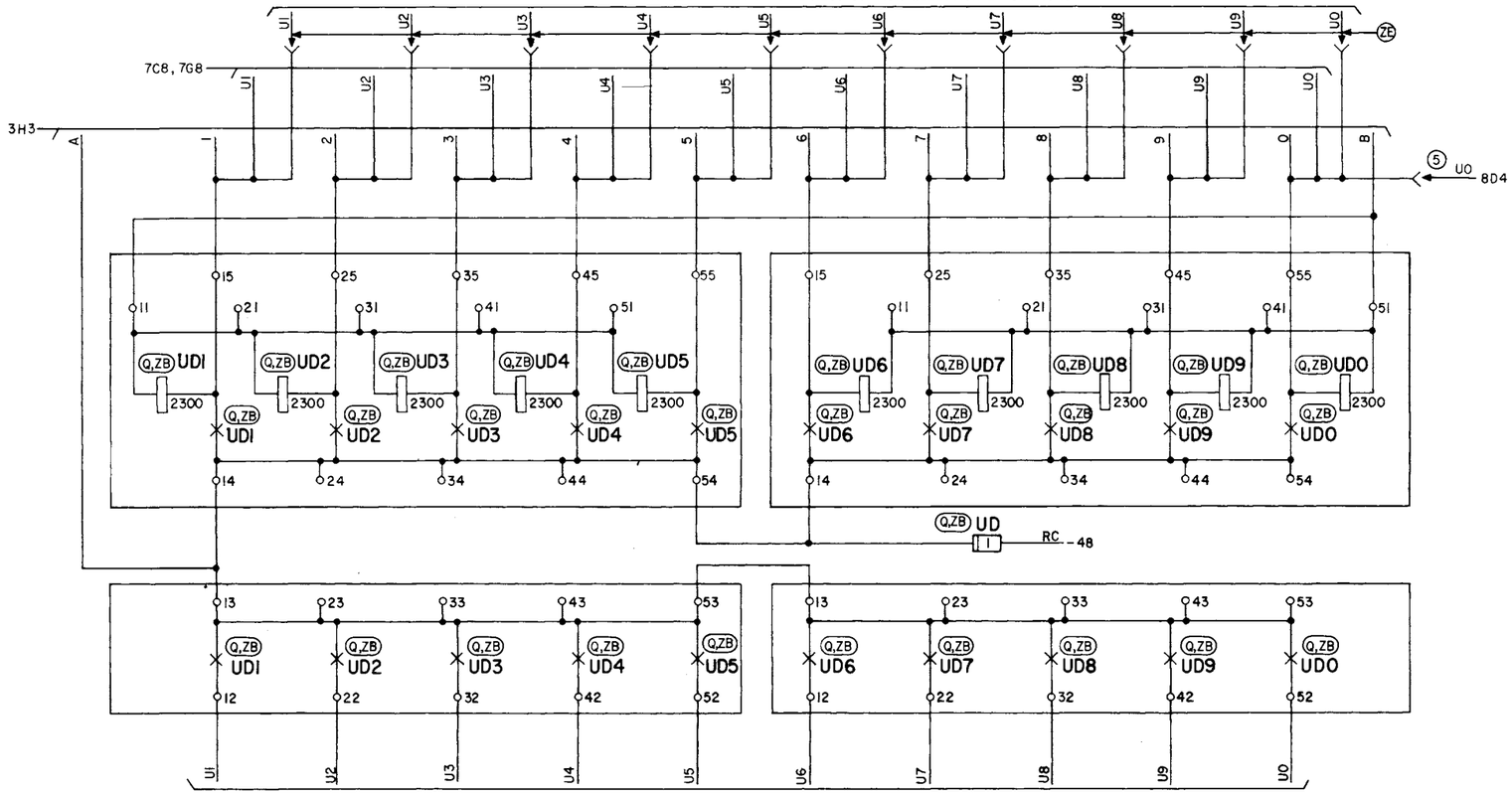
DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-B4

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

PART OF FS 3
STEERING

TO AUXILIARY RELAY CIRCUIT FOR DIRECT STATION SELECTION BY STATIONS



TO LINE, LINK AND MARKER CIRCUIT

DRAWING ISSUE

4B	CM JBC LM JHF
6D	ES CR PO
10B	CR SA GFI
24B	TEI RH
28A	

WORN DRAWING REPRODUCED WITHOUT CHANGE 9/28/67 J.J.R.

SD-65742-01-B5

28

DIAL PULSE REGISTER CIRCUIT (2)

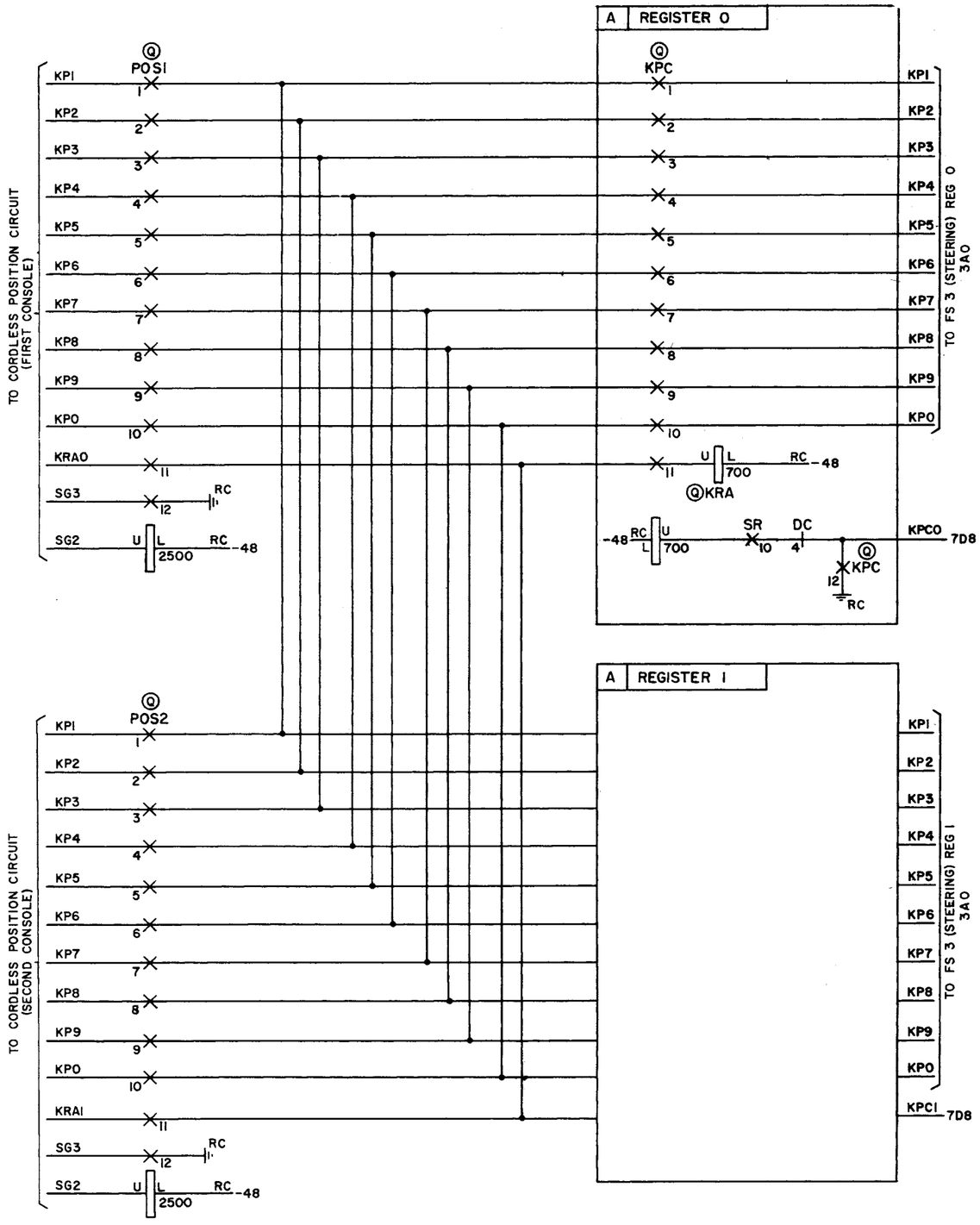
BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-65742-01-B5

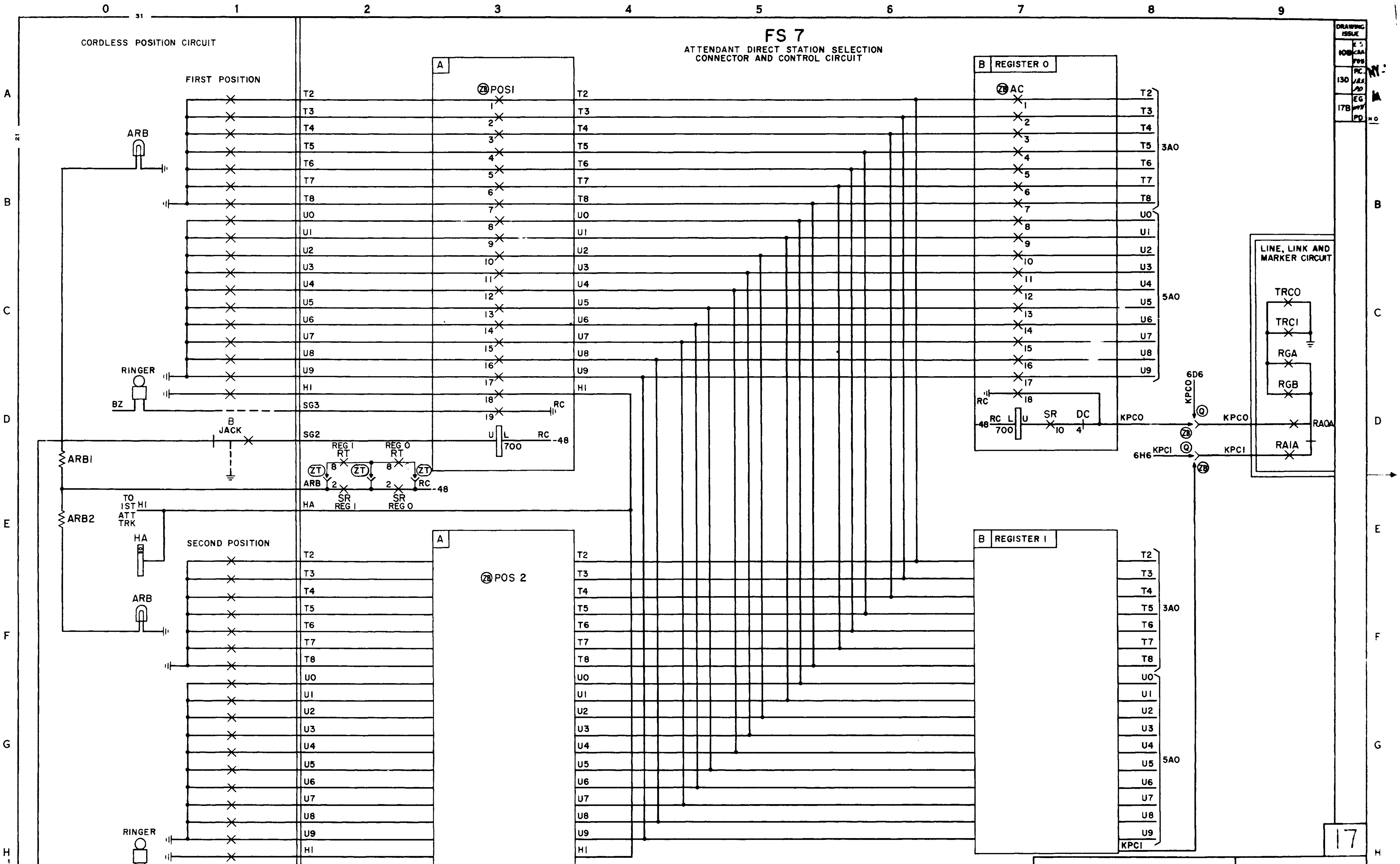
PRINTED IN U.S.A.

FS 6
KEY PULSING CONNECTOR
AND CONTROL CIRCUIT



PBX SYSTEMS NO. 756A DIAL PULSE REGISTER CIRCUIT	SD-65742-01-B6
BELL TELEPHONE LABORATORIES INCORPORATED	6S

PRINTED IN U.S.A.

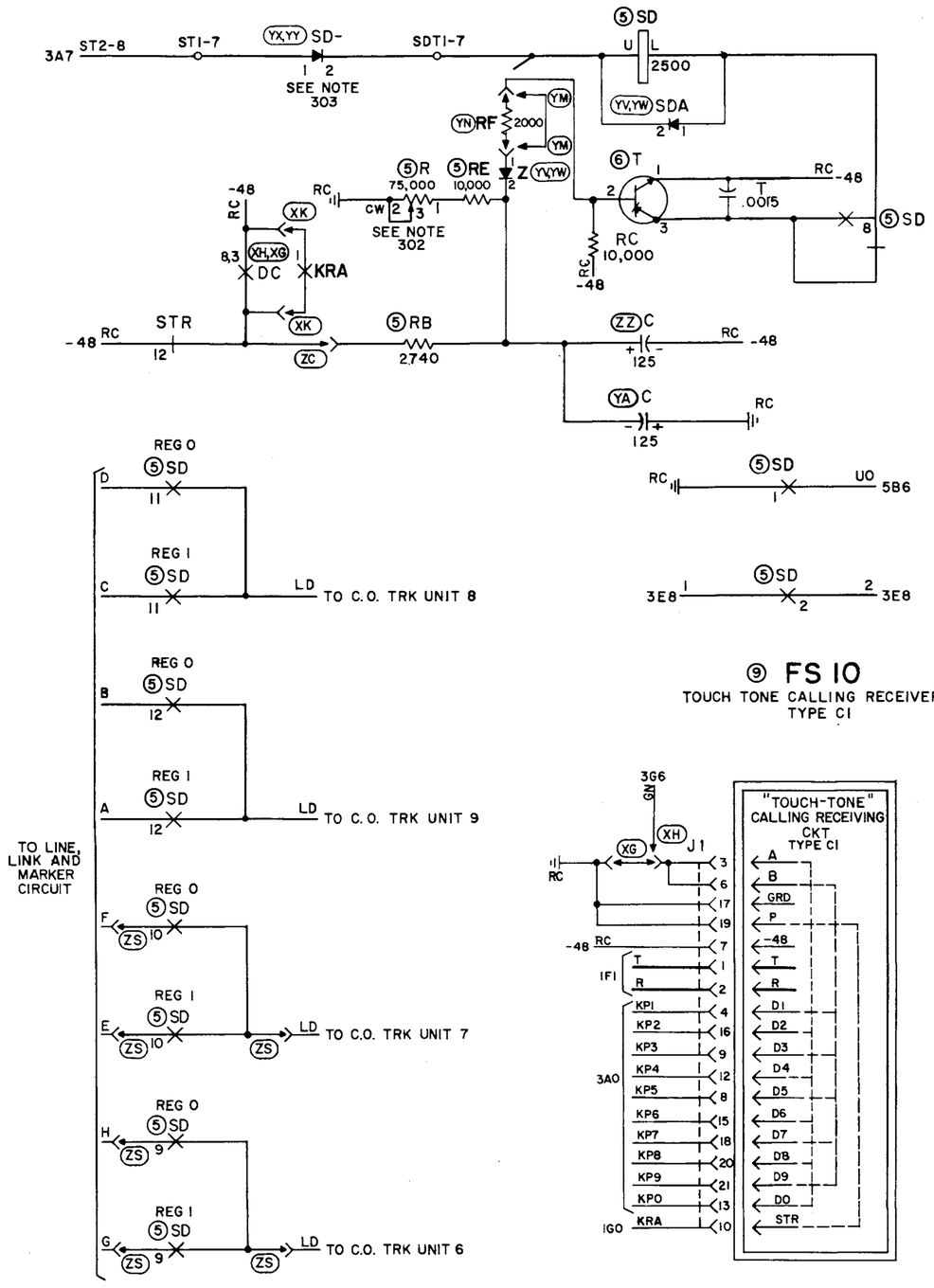

FS 7
ATTENDANT DIRECT STATION SELECTION
CONNECTOR AND CONTROL CIRCUIT
CORDLESS POSITION CIRCUIT
FIRST POSITION
SECOND POSITION
ARB
RINGER
BZ
B JACK
ARB1
ARB2
TO 1ST ATT TRK
HI
HA
REG 1 RT
REG 0 RT
SR REG 1
SR REG 0
ZT
RC
-48
700
A
ZB POS1
ZB POS 2
B REGISTER 0
B REGISTER 1
ZB AC
SR
DC
KPC0
KPC1
6D6
6H6
3A0
5A0
LINE, LINK AND MARKER CIRCUIT
TRC0
TRC1
RGA
RGB
RA0A
RA1A
T2
T3
T4
T5
T6
T7
T8
U0
U1
U2
U3
U4
U5
U6
U7
U8
U9
H1
SG3
SG2
17

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)
BELL TELEPHONE LABORATORIES
INCORPORATED
6S

SD-65742-01-B7

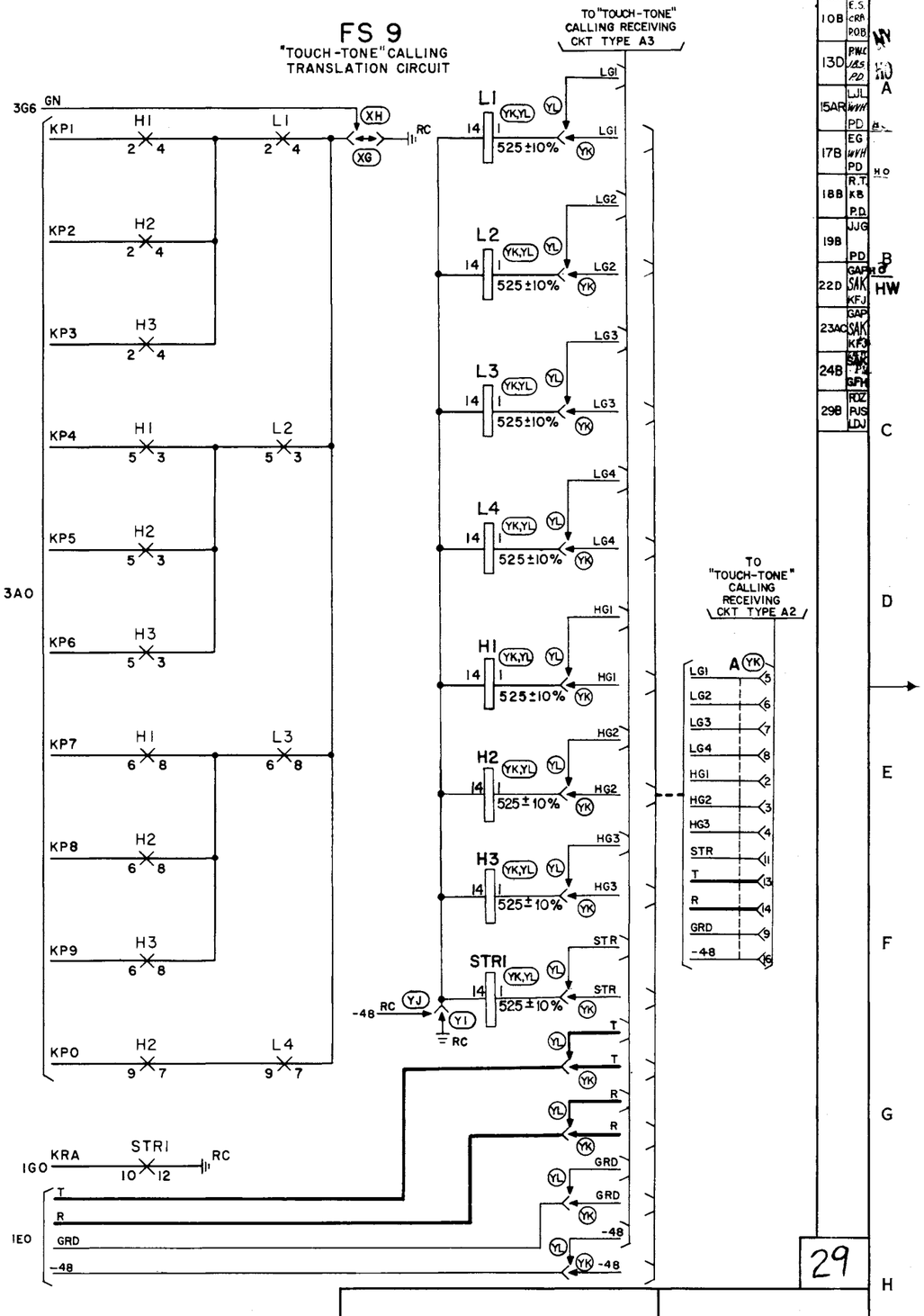
SD-65742-01-B7

FS 8
SINGLE DIGIT DIALING
TIMING AND CONTROL CIRCUIT



⑨ FS 10
TOUCH TONE CALLING RECEIVER
TYPE CI

FS 9
"TOUCH-TONE" CALLING
TRANSLATION CIRCUIT



DRAWING ISSUE

10B	E.S. CRR POB
13D	PWC WES PD
15AR	LJL WYH PD
17B	EG WYH PD
18B	R.T. KB P.D.
19B	JJG PD GAP SAK KFJ
22D	GAP SAK KFJ
23AC	GAP SAK KFJ
24B	SAK GAP PD GPH
29B	RDZ PJS LDJ

29

DIAL PULSE REGISTER CIRCUIT (2)
SD-65742-01-B8
BELL TELEPHONE LABORATORIES INCORPORATED
DWG SIZE 6S
PRINTED IN U.S.A.

APP FIG. 1

RELAY

DESIG			BY		P1		P2		P2A		P2A		P3		P4		P5		RA		RV		DESIG
CODE			AJ30		AF515		AF518		AF63		AK30		AF515		AF515		AF515		AG35		AF118		CODE
OPTION									ZX		ZY,YH												OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12					BM	3G8	EMB	2C4					M		BM	3BI	BM	3AO	BM	3CI	M	2D2			12
11					M	2C4	M	2D3					EBM		M	2E6	M	2G6	M	2H4					11
10			M	IB2	BM	2H3	EBM	3BI					EBM		BM	3BI	BM	3CO	BM	3BO	M	3F7	EBM	IDI	10
9			B	4D9					B	3G7			EMB										PM		9
8			EBM	3G5	BM	2F5	EBM	3CO	M	2B3			EMB		BM	3CI	BM	3EO	BM	2F4	B	3H4			8
7			B		B	2F3	B	2F3	B						B	2F3	B	3BO	B	2G3					7
6			EMB	ID6	BM	3EI	EMB	2B5	EMB	2E2					BM	3DO	BM	2D5	BM	2D4	B	3G5	EBM	ID2	6
5			B	IC7					B	ID5	EMB	IE5													5
4			EBM	IE4	BM	2D4	EBM	2H5	M	3H5	EMB	2F2			BM	2H4	BM	2F6	BM	2F5	M	2C2	PM		4
3			B	IB7	M	3AO	M				EBM	3G7			M	3BI	M		M	3EO			M		3
2					BM	3DI	EBM	3G8			EBM	2C3			BM	3EI	BM	3CO	BM	3BI	M	ID6			2
1					M	2B3	M	2E5			M	3H5			M	2F4	M	2H5	M						1
COIL				IB3		2B6		2C6		2E2		2F2		2D6		2G6		2H6		IE6		IA5			COIL

CAPACITOR

DESIG	LOC	CODE
(ZN) LW	ID3	542G
TN	IE4	441B

RESISTOR

DESIG	LOC	CODE
H	ICO	18G
LU	IG3	18AE
(ZN) LW	ID4	KS-13490,L1,620
P1	2B4	KS-13490,L1 0.1 MEG
P2	2C3	KS-13490,L1 0.1 MEG
S	IDO	18BW
(YP) T	IDI	18AG
TN	IE3	KS-13490, L1, 27

JACK

DESIG	LOC	CODE
TST	IC3	240C

TRANSFORMER

DESIG	LOC	CODE
TN	ID3	142C REP COIL

NETWORK

DESIG	LOC	CODE
P1	2B6	186A
P2	2C6	186A
P3	2D6	186A
P4	2G6	186A
P5	2H6	186A
RA	ID6	185A

PART OF APP FIG. 2

RELAY

DESIG			COT		KPC		KRA		ON		PU		RRLA		RRLB		RT		SR						DESIG
CODE			AF64		AF132		AF16		AF132		AF85		AK5				AF63		AG15						CODE
OPTION					Q		Q,ZB																		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EMB	d	M	6D5	M		M	IB6					M	IC7			EM	IDO					12
11			M	(a)	M	6D4			M	IC6					B	3G4									11
10			M	4DI	M	6C4	M	3F7	M	4DI	EBM				B	IC2			M	(a)					10
9			BM	4BI	M	6C4			M	(c)	PM				B	ICI	B	1G3							9
8			M	4E6	BM	6C4	EBM		BM	4DI							M	(a)	EBM	(d)					8
7			BM	ICO	M	6C4	B	3G5	M	3G4							B								7
6			EMB	C	BM	6B4	EBM	3HI	BM	(a)	EBM	3HO					EMB	4E9	EMB	(c)					6
5			BM	4B6	M	6B4			M	IE5							B	4D3							5
4			M	b	M	6B4	EBM	2E5	M	IE7	PM	IAI	B	3G4			M	4G4	M	2B3					4
3			BM	4A6	M	6B4			M	IBI	M	ICO	B	ICO											3
2			M	4EI	M	6B4	M		M	(b)			B	ICI					M	(b)					2
1			M	4EI	M	6A4	M	8CI	M	IAO			M	IB7											1
COIL				4CO		6D4		(a)		IF8		IAI		IB5		IC5		ID3		IG2					COIL

(a) (K) 4AI, (J) 4CI

(b) (XA) IA6, (XB) 4GI

(C) (YZ) 4GI, (XD) 4HO

(d) (YZ) 4GI, (XB) 4GI

(a) (Q) 6D5, (ZB) IGO

(a) 2D2, 4D3

(b) (F) IBO, (A) 3F7

(c) (B) 3F7, (ZB) 3G7

(a) REG O 7D2, REG I 7D2

(a) (Q) 6D5, (ZB) 7D7

(b) REG O 7E2, REG I 7E2

(c) (ZF) IG4, (ZG) IF8

(d) (ZF) IF8, (ZG) IG4

LAMP

DESIG	LOC	CODE
RT	4E9	2Y

NETWORK

DESIG	LOC	CODE
SR	IG2	185A

DIODE

DESIG	LOC	CODE
(YE) KRA	3F7	446F

PART OF APP FIG. 2

RELAY

DESIG			TLA		TT		TLD		TMO	
CODE			AK2				AF52		AJI2	
OPTION										
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	M	4CI			M		EBM	4B6		
11	M	4AI			M		EBM	ICO		
10	M	4GI			BM		EBM	4C9		
9	M	4GI					EBM	4B4		
8	M				BM	3D8	EBM	3D6		
7							EBM			
6					BM	3C8	EBM	IBO		
5			M	4HI			EBM	4A6		
4			M	4E6	BM		EBM	3F8		
3			M	4FI			EBM	IC6		
2			M	4FI	M		EBM	IB6		
1			M	4BI	M	4AI	EBM	3CI		
COIL		4AO		4BO		4AO		ICI		

RELAY

DESIG	AC
CODE	AJ202
OPTION	ZB
24	
23	
22	
21	
20	
19	3F9
18	7D7
17	7D7
16	7D7
15	7D7
14	7C7
13	7C7
12	7C7
11	7C7
10	7C7
9	7C7
8	7B7
7	7B7
6	7B7
5	7B7
4	7A7
3	7A7
2	7A7
1	7A7
COIL	7D7

APP FIG. 3

RELAY

DESIG			DC		OT		STR		SW		TR		UD										DESIG
CODE			AF55		AFI20		AJI2		AFII4		AJ3		AF57										CODE
OPTION																							OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			M	4A4	EM	3GI	EBM	8CI			EMB	3E7	M	2C2									12
11			M	4G4			EBM	3G7			BM	3D7											11
10			BM	3HO	EBM	4A5	EBM	3FI	M	3E7	EBM	4A6	M	2D2									10
9			M	ICO			EBM	3E4			M	4BO											9
8			BM	b	EMB	3E8	EBM	3E3	BM	2E2	EBM	4B6	EBM	3G7									8
7			B	3D7	B	2B5	EBM	3D3															7
6			BM	d	EBM	4B5	EBM	3D3	BM	2B2	EMB	3D7	EBM										6
5			M	ID6	B	3E8	EBM	3C3			M	3D7											5
4			BM	(a)	PM	3E8	EBM	3B2	M	3HO	EBM		M	3G5									4
3			M	c	B	3G6	EBM	3B2			BM	3GI											3
2			M	4D9	EM	3GI	EBM	3B2	B	IA2	EBM	3E7	M	3G8									2
1			M	3F5			EBM	3A2			BM	3FI											1
COIL				3F5		3E9		3F7		3HO		3E7		3F8									COIL

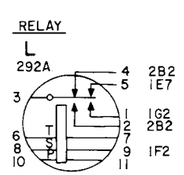
(a) (Q) 6D5, (ZB) 7D8

(b) (XG) IA2, (XH) IA2, 8CI

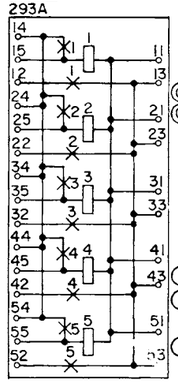
(C) (XG) 8CI, (XH) IG3

(d) (XG) IG3, (XH) 3G6

RELAY L 292A



RELAY 293A



LOCATION

DESIG	COIL	LOAD CONT
(I)TD1,2,3,4,5	3B5	3B6
(I)TD6,7,8,9,0	3E5	3C6
(Q,ZB)(I)UD1,2,3,4,5	5CI	5DI
(Q,ZB)(I)UD6,7,8,9,0	5C4	5D4

CAPACITOR

DESIG	LOC	CODE
PH	IG2	437QA

DIODE

DESIG	LOC	CODE
(YT) KP	3HO	KS-15724,L2
(YU) KP	3HO	446F
(YC) TM	3G5	426F

NETWORK

DESIG	LOC	CODE
TD	3F6	185A
(Q,ZB) UD	5D5	185A

RESISTOR

DESIG	LOC	CODE
L	IF2	18FR

APP FIG. 4

RELAY

DESIG			POSI		POS2		DESIG
CODE			AJ5		AJ5		CODE
OPTION			Q		Q		OPTION
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
12			EBM	6D2	EBM	6H2	12
11			EBM	6D2	EBM	6H2	11
10			EBM	6C2	EBM	6H2	10
9			EBM	6C2	EBM	6G2	9
8			EBM	6C2	EBM	6G2	8
7			EBM	6C2	EBM	6G2	7
6			EBM	6B2	EBM	6G2	6
5			EBM	6B2	EBM	6F2	5
4			EBM	6B2	EBM	6F2	4
3			EBM	6B2	EBM	6F2	3
2			EBM	6A2	EBM	6F2	2
1			EBM	6A2	EBM	6E2	1
COIL				6D2		6H2	COIL

RELAY

DESIG	POSI	POS2
CODE	AJ202	AJ202
OPTION	ZB	ZB
24		
23		
22		
21		
20		
19	7D3	7G3
18	7D3	7G3
17	7D3	7G3
16	7D3	7G3
15	7C3	7G3
14	7C3	7G3
13	7C3	7G3
12	7C3	7G3
11	7C3	7G3
10	7C3	7G3
9	7B3	7G3
8	7B3	7G3
7	7B3	7G3
6	7B3	7G3
5	7B3	7G3
4	7A3	7G3
3	7A3	7G3
2	7A3	7G3
1	7A3	7G3
COIL	7D3	7G3

DRAWING ISSUE

4B	CM JAS
5B	FJS LHE
6D	LMC JFE
7B	OL NE
8D	VS MR
10B	ES CRR POB
11B	JAF WYH PD
12AC	JAF WYH PD
17B	EG WYH PD
18B	RT KB PD
19B	JJG SJF PD
20B	RWK SAK KFJ
22D	RKU SAK KFJ
24B	SAK GFK
PMR 26D	FED PJS RHF
28A	CEL PJS RHI
29B	ROZ PJS LDJ

SD-65742-01-CI

DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-CI

BELL TELEPHONE LABORATORIES INCORPORATED

SYO SITE 6S

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APP FIG. 5

DESIG			SD				
CODE			AJ83				
OPTION							
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12			EBM	b				
11			EBM	a				
10			EBM	c				
9			EBM	d				
8			EMB	8B4				
7			EBM					
6			EMB					
5			EMB					
4			EBM	3G0				
3			EBM	3D7				
2			EBM	8D3				
1			EBM	8D3				
COIL				8A3				

a	REG 0	8D1
	REG 1	8D1
b	REG 0	8E1
	REG 1	8E1
c	REG 0	8F1
	REG 1	8G1
d	REG 0	8G1
	REG 1	8H1

CAPACITOR

DESIG	LOC	CODE
C	8C3	KS-13810,125 (ZZ) KS14105,125 (YA)
T	8B3	KS-16742,L1, .0015

DIODES

DESIG	LOC	CODE
SDA	8B3	420G (YV) 446F (YW)
Z	8B2	420K (YV) 446N (YW)

POTENTIOMETER

DESIG	LOC	CODE
R	8B2	KS-13790,L30,75,000

RESISTOR

DESIG	LOC	CODE
RB	8C2	146C,2740
RC	8B3	145C, 10,000
RE	8B2	145C, 10,000
(YN) RF	8B2	KS-13490,L1,2000

APP FIG. 6

TRANSISTOR

DESIG	LOC	CODE
T	8B3	27A

APP FIG. 7

DIODE

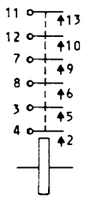
DESIG	LOC	CODE
(YX) SD-	8A1	KS-15724,L2
(YY) SD-	8A1	446F

APP FIG. 8

RELAY

295A

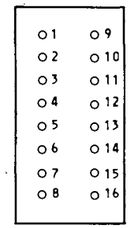
OPTION



HI YK,YL	H2 YK,YL	H3 YK,YL	LI YK,YL	L2 YK,YL	L3 YK,YL	L4 YK,YL	STRI YK,YL
							8G6
	8G6					8G7	
8E6	8E6	8F6			8E7		
8C6	8D6	8D6		8C7			
8A6	8B6	8B6	8A7				
8D8	8E8	8F8	8A8	8B8	8C8	8D8	8F8

CONNECTOR

AMPHENOL



DESIG	A
CODE	26-4501-16S
OPTION	YK
TERM.	LOC
1	
2	8E9
3	8E9
4	8E9
5	8E9
6	8E9
7	8E9
8	8E9
9	8F9
10	
11	8E9
12	
13	8F9
14	8F9
15	
16	8F9

RESISTOR

DESIG	LOC	CODE
(ZY) DT	1E4	KS-13490,L1,3000

APP FIG. 9

CONNECTOR

DESIG	LOC	CODE
J1	8F3	KS-14672,L2

RESISTOR

DESIG	LOC	CODE
(ZY) DT	1E4	KS-13490,L1,3000

DRAWING ISSUE

10B	E.S CRA POB
15AC	WYH PD
17B	EG WYH PD
18B	R.T. K.B P.D.
19B	JJG PD
21B	MAH SAK KFJ
22D	RKU SAK KFJ
23AC	RKU SAK KFJ
24B	RKU SAK GFH

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-C2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PRINTED IN U.S.A.

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
RA	1 1/3	-48V SIG	APP FIG. 1	
RB	1 1/3	-48V SIG	APP FIGS. 1,2,3	
RC	1 1/3	-48V SIG	APP FIGS. 1,2,3,4 & 5	
RA		GROUND	APP FIG. 1,2,3	
RB		GROUND	APP FIG. 2,3	
RC		GROUND	APP FIG. 1,2,3, 4,5, & 8	

BATTERY SYMBOL	VOLTAGE RANGE
-48V	45-52V

102.

FEATURE OR OPTION				PROVIDE APP FIGS	PROVIDE APP OR WIR	PROVIDE QUANTITY
DIAL PULSE REGISTER CIRCUIT				1,2, & 3		2 PER PBX
DIRECT STATION SELECTION CONNECTOR AND CONTROL CIRCUIT				4		1 PER PBX
CLASS OF SERVICE	TENS DIGIT 6 & 7 INTERCEPTED (40 LINE PBX)				Z	
	TRUNK CODE 8	CODE 8 INTERCEPTED (NOT EQUIPPED)			W	
		RESTRICTED STATION OR DIAL REPEATING TIE TRUNK	DENIED ACCESS TO CODE 8 AND IS INTERCEPTED		Y	
			PROVIDED ACCESS TO CODE 8		X	
	TRUNK CODES 8 & 9	CO TRUNK OR RING-DOWN TIE TRUNK	NOT RESTRICTED FOR CODES 8 & 9 (NOT INTERCEPTED)		J	
			RESTRICTED FOR CODES 8 & 9 (INTERCEPTED)			
	CODE 9		ONE DIGIT		V	
			TWO DIGIT		T	
DIRECT STATION SELECTION FROM STATIONS			REQUIRED		ZE	
			NOT REQUIRED		ZD	
SINGLE DIGIT DIALING (CODES 2 THRU 8)	TIMING AND CONTROL			5,6	ZC	1 PER REG
	DIODES			7	YY	1 PER SGL DIG CD USED
	SINGLE DIGIT CODE 8	NOT USED OR USED FOR REACHING STA, TIE TRK OR MISC TRK			ZI	
		USED FOR REACHING LONG DISTANCE OPERATOR VIA CENTRAL OFFICE TRUNKS 8 AND 9			ZK	
		USED FOR REACHING LONG DISTANCE OPERATOR VIA CENTRAL OFFICE TRUNKS 6 AND 7			ZK, ZS	
CONNECTION TO DIAL TONE GENERATOR FOR PBX "TOUCH-TONE" CALLING					YG, YH	

CONTINUED

102 (CONT.)

FEATURE OR OPTION		PROVIDE APP PIGS	PROVIDE APP OR WIR	PROVIDE QUANTITY
"TOUCH-TONE" CALLING TRANSLATION CIRCUIT FOR USE WITH RECEIVING CIRCUIT TYPE A3-7 CHANNEL		8	YJ, YL	1 PER REG
USED WITH "TOUCH-TONE" CALLING RECEIVING CIRCUIT TYPE C1		9		1 PER REG
PAD CONTROL FOR DIAL REPEATING TIE TRUNK			YQ	
PAD CONTROL OF DIAL REPEATING TIE TRUNKS	PAD REMOVED ON ALL DIAL-REPEATING TIE TRUNK CALLS (SEE NOTE 118)		XC	
	PAD REMOVED ONLY ON DIAL-REPEATING TIE TRUNK TO DIAL-REPEATING TIE TRUNK CALLS (SEE NOTE 118)		XD	

103.

NETWORK VALUES		
NETWORK	RES IN OHMS	CAPACITANCE IN UF
1	470	0.13
2	120	0.35

104.

RECORD OF APPARATUS 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	
4B	Q OR R	R		Q		R	
5B	M OR N	N	105	M		N	
6D	J OR K	K	102	J		K,S	
7B	H OR G			G		H	
8D	E OR F	F		E		F	
8D	A OR B	B		A		B	
10B	ZA,ZB OR ZM	Q OR R		ZB,ZM		Q,ZA	
10B	ZE OR ZD	ZD	106	ZD,ZE			
10B	ZF OR ZG	ZF		ZG		ZF	
10B	ZH	NONE		ZH			
10B			102	APP FIG. 5, 6,7&8			
10B	ZK OR ZI	ZI	102	ZK,ZI			
10B	ZC	NONE	102	ZC			
10B	ZJ	NONE		ZJ			
10B	ZP OR ZL	ZL		ZP		ZL	
11B	ZN	NONE		ZN			

CONTINUED

104. (CONT)

RECORD OF APPARATUS 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	
12AC	ZO	NONE		ZO			
16AC	ZR OR ZQ	ZQ	108	ZR		ZQ	
17B	ZS	NONE	102	ZS			
	ZT	NONE		ZT			
	ZV	ZU		ZV		ZU	
18B	ZW	ZW	109	ZW			
	ZX OR ZY	ZX		ZY		ZX	
19B	YA OR ZZ	ZZ		YA		ZZ	
	TRANS			27A		F54810	
20B	YB OR YC	YB	110	YC		YB	
	YD OR YE	YD	111	YE		YD	
21B	YF OR YG	YF	102	YG		YF	
22D	YH	ZW OR ZY	102	YH		ZW,ZY	
22D	YI OR YJ	YI	102	YJ		YI	
22D	YK OR YL	YK	102	YL		YK	
23AC	YM OR YN	YM	113	YN		YM	
24B	YO OR YP	YO		YP		YO	
24B			114	YB		YC	
24B	YT OR YU	YT	115	YU		YT	
24B	YV OR YW	YV	116	YW		YV	
24B	YX OR YY	YX	117	YY		YX	
24B	YZ	NONE		YZ			
25D	YQ	NONE		YQ			
26D	XA OR XB	XA OR YZ		XB		YZ,XA	
	XC OR XD	XC	102,118	XC,XD			
27D	XE,XF	XE		XF		XE	
29B	XG, XH	XG		XH		XG	
	XI, XJ	XI		XJ		XI	
	XK	NONE					

105. M OPTION IS REQUIRED WHEN THE PBX IS EQUIPPED WITH RINGDOWN TIE TRUNKS.

106. ZC AND ZE OPTIONS SHOULD ONLY BE SPECIFIED WHERE ZB OPTION HAS BEEN PROVIDED.

107. THE FOLLOWING SHOWS THE RELAYS OPERATED FOR EACH DIGIT DIALED.

DIGIT	RELAYS OPERATED
1	L1,H1
2	L1,H2
3	L1,H3
4	L2,H1
5	L2,H2
6	L2,H3
7	L3,H1
8	L3,H2
9	L3,H3
0	L4,H2

108. ZR OPTION MUST BE SPECIFIED WHERE ZE OPTION OR ZB OPTION HAS BEEN PROVIDED

(MFR DISC) 109. ZW OPTION MUST BE SPECIFIED WHEN APP FIGURES 8 OR 9 ARE NOT PROVIDED (SEE NOTE 112).

(MFR DISC) 110. YC OPTION PREVENTS STATION LOCK UP WHEN BOTH REGISTERS ARE ON HOLD AND ONE TIMES OUT.

111. YE OPTION PREVENTS OPERATION OF STR RELAY WHEN "TOUCH TONE" STATION SELECTS AN UNEQUIPPED 6 AND 7 TENS GROUP.

(MFR DISC) 112. ZW OPTION IS SPECIFIED AT ALL TIMES WHEN YG OPTION IS PROVIDED.

113. YM OPTION MUST BE SPECIFIED WHERE YA OPTION HAS BEEN PROVIDED.

114. WHEN OPTION Q OR ZB IS PROVIDED, THE ATTENDANT TRUNK CIRCUIT MUST BE PER ISSUE 11B OR LATER OF SD-65753-01.

115. OPTION YT WAS A PART OF OPTION Q AND OPTION ZB PRIOR TO ISSUE 24B.

116. OPTION YV WAS A PART OF OPTION 5 PRIOR TO ISSUE 24B.

117. OPTION YX WAS A PART OF OPTION 7 PRIOR TO ISSUE 24B.

118. SEE MARKER CIRCUIT NOTE 123 REGARDING OPTIONS USED FOR VARIOUS PAD CONTROL ARRANGEMENTS

WORKING LIMITS

MAX EXTERNAL LOOP RESISTANCE	2000
MIN INSULATION RESISTANCE	10,000

DRAWING ISSUE		
SUPER-SEDES ISS 23A		HW
24B	SAK GEH	
25D	SAK DFH	
26D	BCM PJS RHP	
27D	PMC PJS RHP TEF	
28A	PJS RHP ROZ	
29B	PJS LDJ	

SD-65742-01-D1

DIAL PULSE REGISTER CIRCUIT (2)

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

INFORMATION NOTES:

301. MANUFACTURING TEST REQUIREMENTS FOR PULSING CIRCUIT:

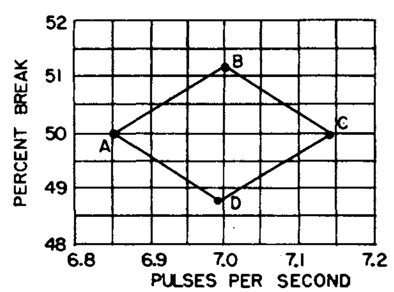


FIG.1A - 7 PULSES PER SEC MIN PERCENT BREAK TEST *

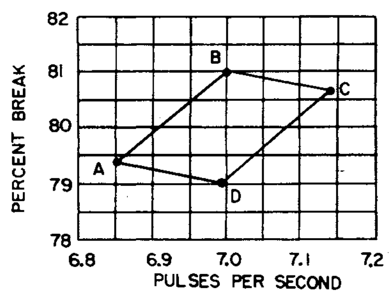


FIG.1B - 7 PULSES PER SEC MAX PERCENT BREAK TEST *

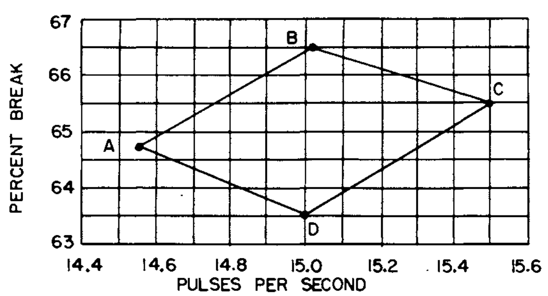


FIG.1C - 15 PULSES PER SECOND MINIMUM PERCENT BREAK TEST *

NOTES:

1. THE TEST CIRCUIT SHALL PROVIDE AN INTERDIGITAL INTERVAL OF 183±13 MILLISECONDS FOR THE PULSING CONDITIONS OF FIG.1C FOR OTHER PULSING CONDITIONS THIS TIME MAY BE EXCEEDED.

* THE POINT OF INTERSECTION OF THE HORIZONTAL AND VERTICAL LINES DETERMINED BY ANY PAIR OF SIMULTANEOUS VALUES OF PERCENT BREAK AND PULSES PER SECOND SHALL FALL WITHIN THE AREA ABCD.

FIGS. 1A-1C - DIAL SPEED AND PERCENT BREAK LIMITS FOR PULSING TEST.

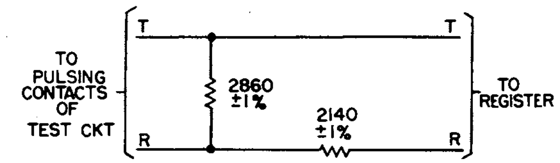


FIG.2A - LOOP AND LEAK CONDITION FOR 7 PULSES PER SECOND MINIMUM AND MAXIMUM PERCENT BREAK TEST.

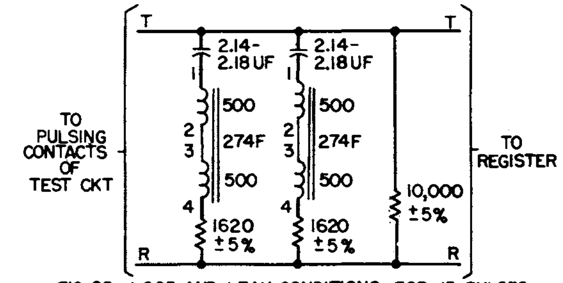


FIG. 2B - LOOP AND LEAK CONDITIONS FOR 15 PULSES PER SECOND MINIMUM PERCENT BREAK TEST.

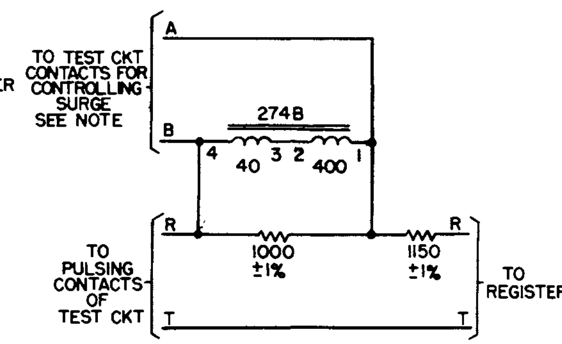


FIG. 2F - LOOP AND LEAK CONDITIONS FOR SURGE TEST.

NOTE:
THE TEST CIRCUIT CONTACTS FOR CONTROLLING THE SURGE CONDITION SHALL BE CLOSED DURING THE PULSING OF ANY DIGIT; SHALL OPEN FOR AT LEAST 50 MIL SEC, APPROX 50 MIL SEC AFTER THE PULSING CONTACTS CLOSE AT THE END OF EACH DIGIT, AND SHALL RECLOSE BEFORE THE PULSING CONTACTS REOPEN FOR THE FIRST PULSE OF THE SUCCEEDING DIGIT.

FIG. 2 - LINE CONDITIONS

302. MANUFACTURING TEST REQUIREMENTS FOR SINGLE DIGIT TIMING CIRCUIT (ZC OPTION):
UPON DIALING A SINGLE DIGIT (2-8) CORRESPONDING TO A TENS GROUP ARRANGED FOR SINGLE DIGIT OPERATION, THE SD(-) RELAY SHALL OPERATE 3±1/2 SECONDS AFTER THE STR RELAY OPERATES.

303. CONNECT SD DIODE BETWEEN SDT TERMINAL AND ST(-) TERMINAL CORRESPONDING TO TENS GROUP TO BE ARRANGED FOR SINGLE DIGIT DIALING.

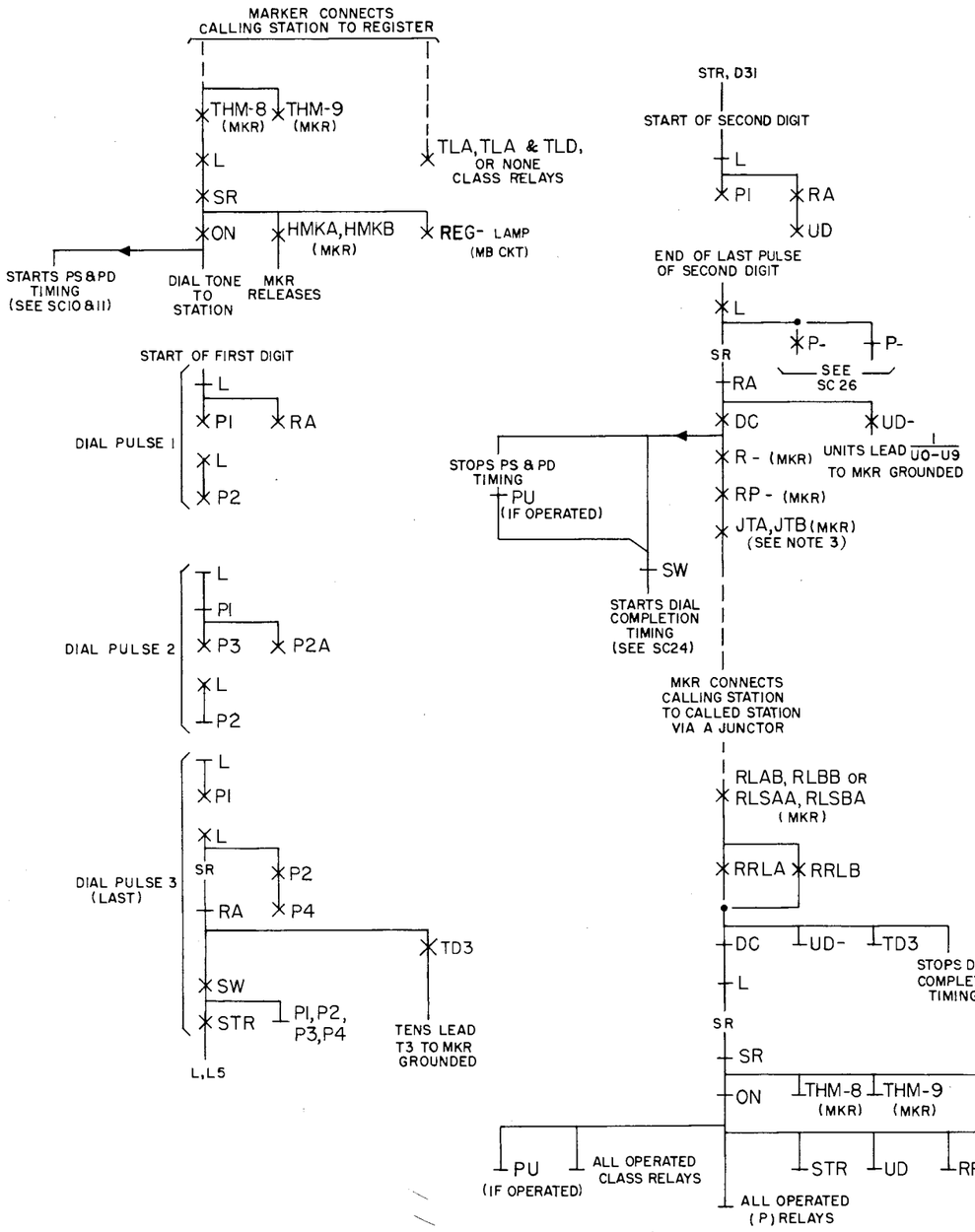
PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT

SD-65742-01-D2

BELL TELEPHONE LABORATORIES INCORPORATED

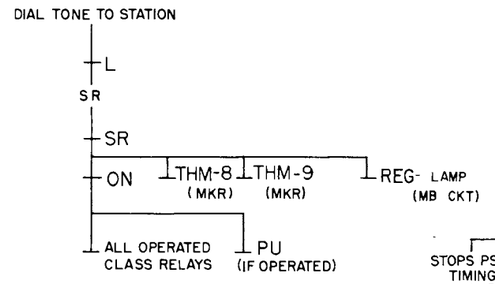
SC 1

STATION TO STATION CALL
(SEE NOTE 1)



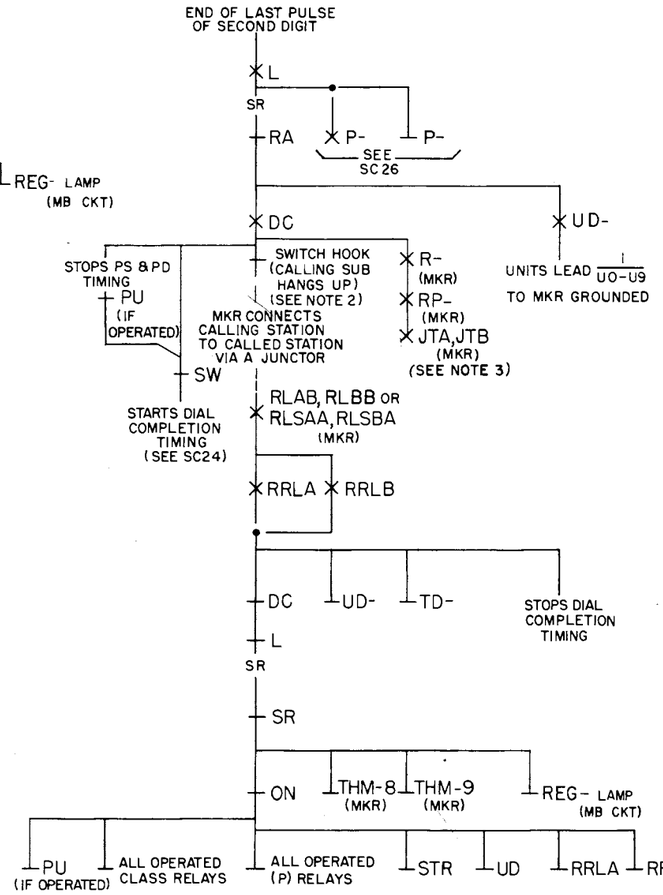
SC 2

ABANDONED CALL
(CALL ABANDONED BEFORE DIALING BUT AFTER REGISTER IS CONNECTED TO CALLING STATION)



SC 3

ABANDONED CALL
(CALL ABANDONED AFTER DIALING BUT BEFORE TIME OUT PER SC 24 AND BEFORE MARKER HAS COMPLETED PROCESSING THE CALL)



SHEET NOTES:

1. SC1 ASSUMES TENS DIGIT 3 IS DIALED FOLLOWED BY ANY UNITS DIGIT.
2. WHEN CALLING STATION HANGS UP, THE (H) RESISTOR IN THE REGISTER MAINTAINS THE (L) RELAY IN THE REGISTER OPERATED AND OPERATES THE (A) RELAY IN THE JUNCTOR THUS ALLOWING THE MARKER TO COMPLETE ITS FUNCTIONS IN THE NORMAL MANNER.
3. WITH (OT), (TR), (COT), & (TMO) RELAYS RELEASED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (JTA) & (JTB) RELAYS IN THE MARKER TO OPERATE INDICATING A JUNCTOR TYPE CALL IS TO BE COMPLETED.

27

DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-E1

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

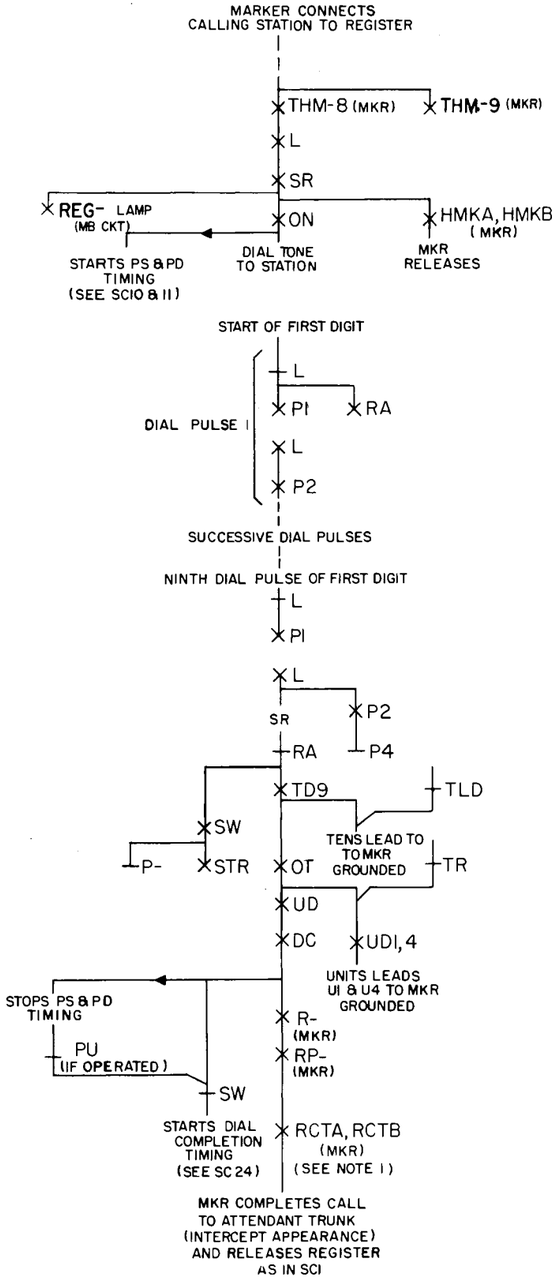
PRINTED IN USA

D-65742-01-E1

DRAWING ISSUE	
5B	K.J.S. J.H.E.
17B	E.G. W.Y.H. P.D.
18B	R.T. K.B. P.D.
27D	P.M.C. R.J.S. R.H.P.

SC4

RESTRICTED STATION DIALS 9

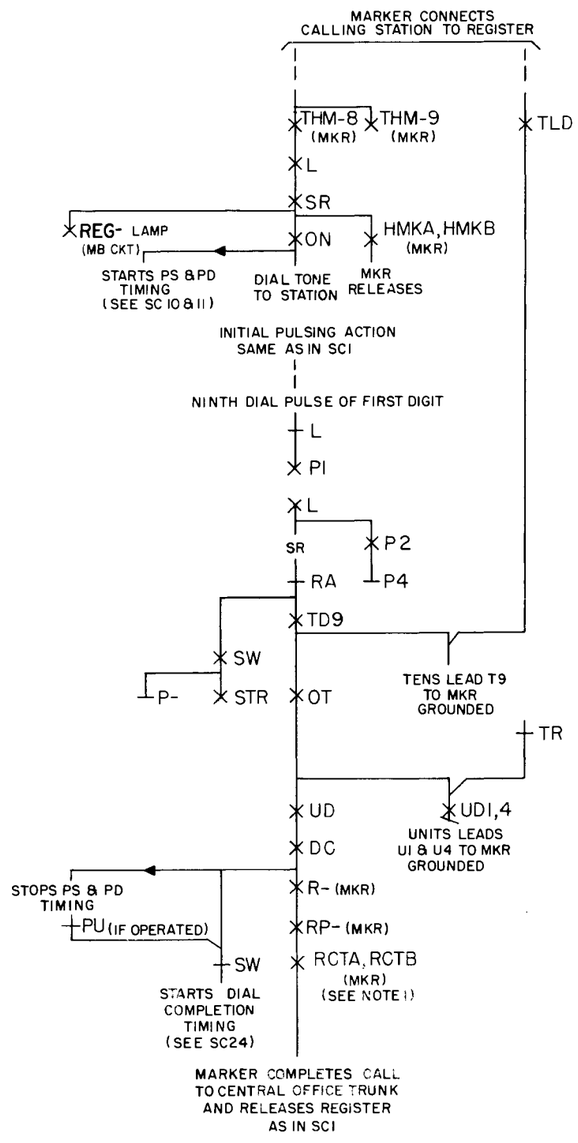


SC5

RESTRICTED STATION TO CODE 8 TRUNK CALL
(Y OPTION)
ACTION SAME AS IN SC4, EXCEPT EIGHTH INSTEAD OF NINTH DIAL PULSE IS REGISTERED AND TD8 INSTEAD OF TD9 OPERATES

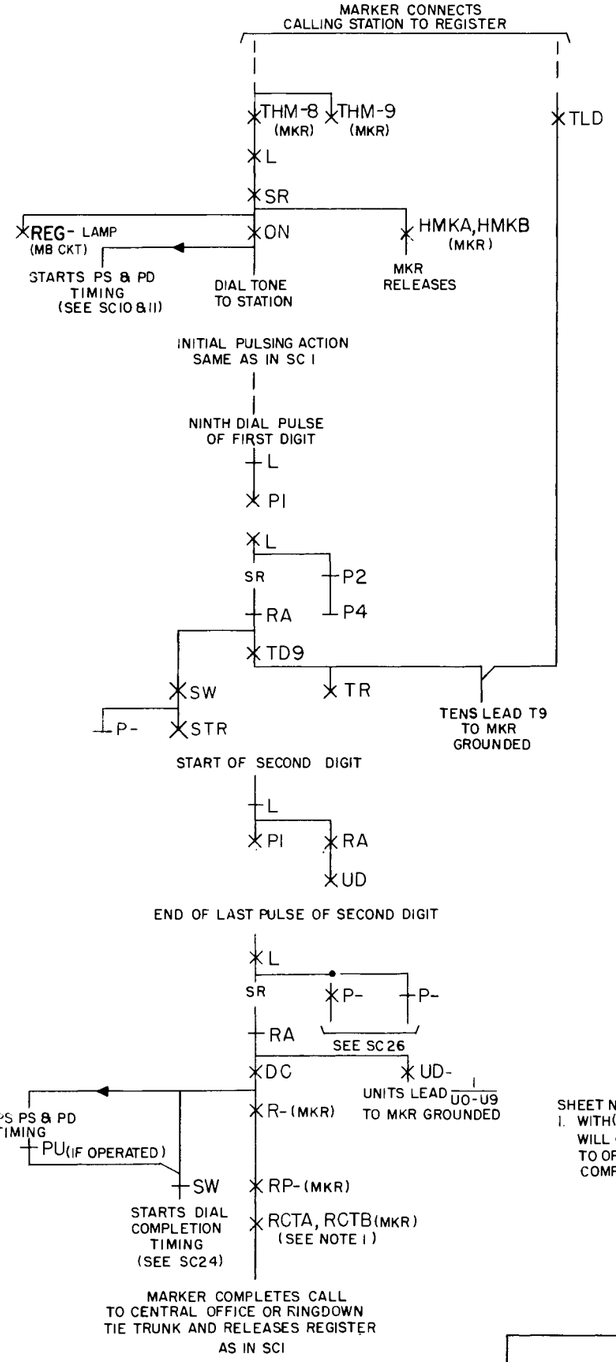
SC6

TOLL DENIED STATION TO CENTRAL OFFICE TRK CALL
(ONE DIGIT TRUNK CODE V OPTION)



SC7

TOLL DENIED STATION TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL
(TWO DIGIT TRUNK CODE T OPTION)



SHEET NOTES:
1. WITH (OT) RELAY OPERATED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

27

DIAL PULSE REGISTER CIRCUIT (2)

SD-65742-01-E2

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

PRINTED IN U.S.A.

SC8
RESTRICTED STATION TO CODE 8 TRUNK CALL (X OPTION)

MARKER CONNECTS CALLING STATION TO REGISTER

THM-8 (MKR) THM-9 (MKR)

L

SR

ON — STARTS PS & PD TIMING (SEE SC10 & 11); DIAL TONE TO STATION

HMKA, HMKB (MKR) — MKR RELEASES

REG- LAMP (MB CKT)

INITIAL PULSING ACTION SAME AS IN SC1

EIGHTH DIAL PULSE OF FIRST DIGIT

L

PI

P3

L

SR — P2

RA

TD8

SW — P-

STR

TR — TENS LEAD T8 TO MKR GROUNDED

START OF SECOND DIGIT

L

PI

RA

UD

END OF LAST PULSE OF SECOND DIGIT

L

SR — P- (SEE SC26) — P-

RA

DC — STOPS PS & PD TIMING; PU (IF OPERATED); SW — STARTS DIAL COMPLETION TIMING (SEE SC24)

UD- — UNITS LEAD U0-U9 TO MKR GROUNDED

R-(MKR)

RP-(MKR)

RCTA, RCTB (MKR) (SEE NOTE 1)

MARKER COMPLETES CALL TO CODE 8 TRUNK AND RELEASES REGISTER AS IN SC1

SC9
STATION OR TRUNK DIALS UNEQUIPPED CODE (W OR Z OPTION)

REGISTER ACTION

END OF FIRST DIGIT

L

SR — P- (SEE SC26) — P-

RA

TD 1/6-8

SW — P-

STR

OT — TENS LEAD TO TO MKR GROUNDED

TR

UD

UD1,4 — UNITS LEADS U1 & U4 TO MKR GROUNDED

DC — STOPS PS & PD TIMING; PU (IF OPERATED); SW — STARTS DIAL COMPLETION TIMING (SEE SC24)

R-(MKR)

RP-(MKR)

RCTA, RCTB (MKR) (SEE NOTE 1)

MARKER COMPLETES CALL TO ATTENDANT TRUNK (INTERCEPT APPEARANCE) AND RELEASES REGISTER AS IN SC1

SC10
PERMANENT SIGNAL TIME OUT

MARKER CONNECTS CALLING STATION OR TRUNK TO REGISTER

THM-8 (MKR) THM-9 (MKR)

CLASS RELAY

L

SR

ON — DIAL TONE TO LINE

HMKA, HMKB (MKR) — MKR RELEASES

REG- LAMP (MB CKT)

0-7.5 SEC

PU LEAD FROM INTERRUPTER IN POWER PLANT GROUNDED

SO

PU

7.5 SEC

TM LEAD FROM INTERRUPTER IN POWER PLANT GROUNDED

TMO

TR

OT — TENS LEAD TO TO MKR GROUNDED

UD1,4 — UNITS LEADS U1 & U4 TO MKR GROUNDED

R-(MKR)

RP-(MKR)

RCTA, RCTB (MKR) (SEE NOTE 1)

MARKER CONNECTS CALLING STATION OR TRUNK TO ATTENDANT TRUNK (INTERCEPT APPEARANCE)

RLAB, RLBB OR RLSAA, RLSBA (MKR)

RRLA RRLB

L — TMO — UD1,4

SR

SR

REG-LAMP (MB CKT) — THM-9 (MKR) — THM-8 (MKR) — ON

RRLA — RRLB — PU — OT — ALL OPERATED CLASS RELAYS

SHEET NOTES:
1. WITH (TR) OR (OT) RELAYS OPERATED, THE OPERATION OF THE (DC) OR (TMO) RELAYS WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

DRAWING ISSUE

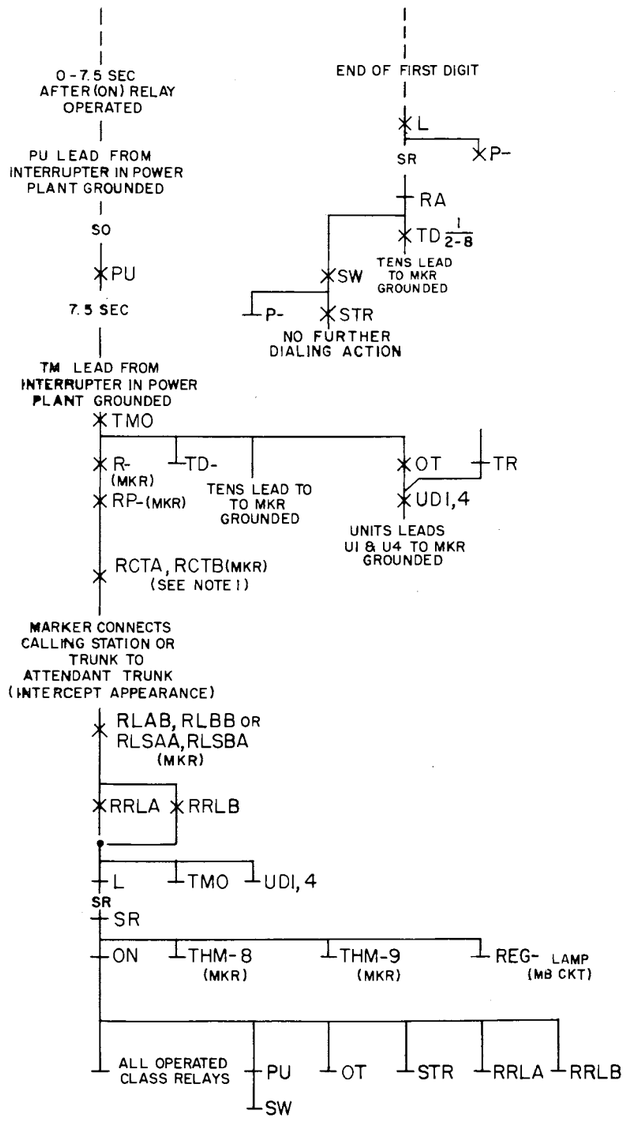
5B	F.J.S.	LWE
17B	EG	WH PD
18B	R.T.	KB P.D.
27D	PMC	PJS RHP

DIAL PULSE REGISTER CIRCUIT (2) SD-65742-01-E3

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

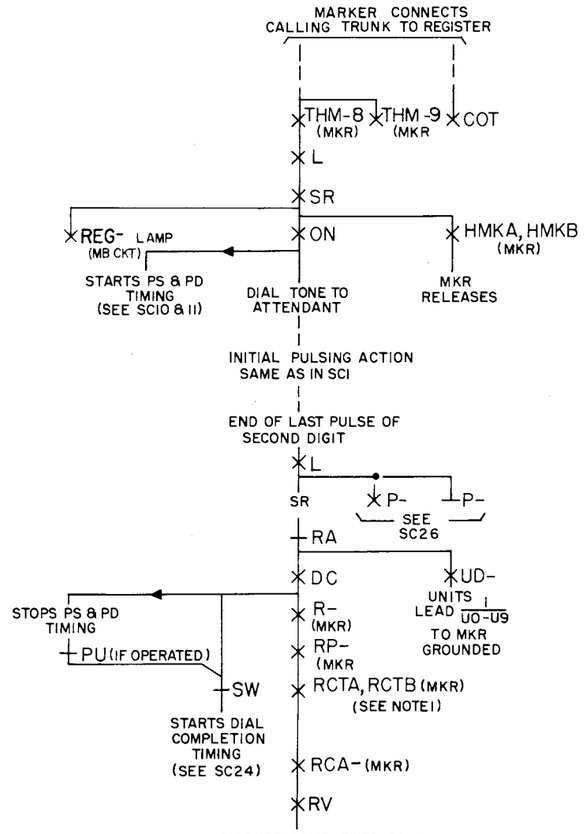
SD-65742-01-E3

SC11
PARTIAL DIAL TIME OUT

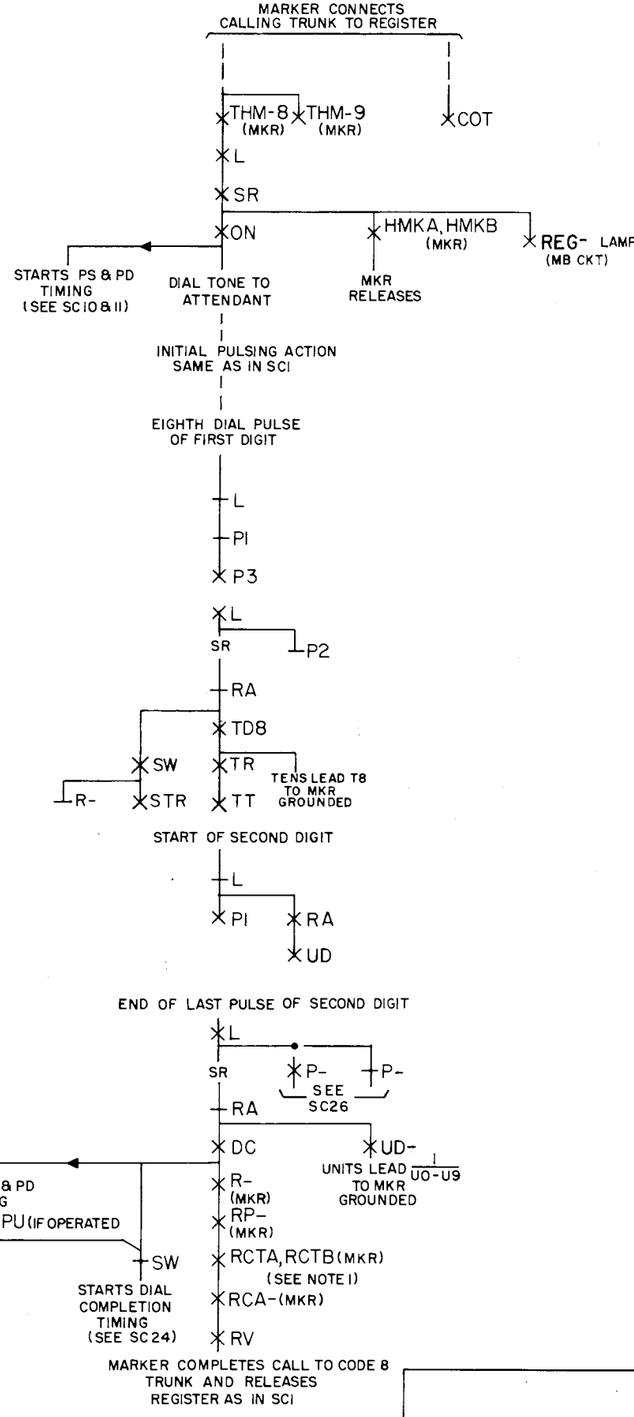


SHEET NOTES:
1. WITH (OT), (TR), OR (COT) RELAYS OPERATED, THE OPERATION OF THE (DC) OR (TMO) RELAYS WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

SC12
CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO STATION CALL



SC13
CENTRAL OFFICE OR RINGDOWN TIE TRUNK TO CODE 8 TRUNK CALL



DRAWING ISSUE		
5B	F.J.S. K.H.E.	P.O.B. NY
18B	R.T. K.B. P.D.	
27D	PMC FJS PHP	102 NY

27

DIAL PULSE REGISTER CIRCUIT

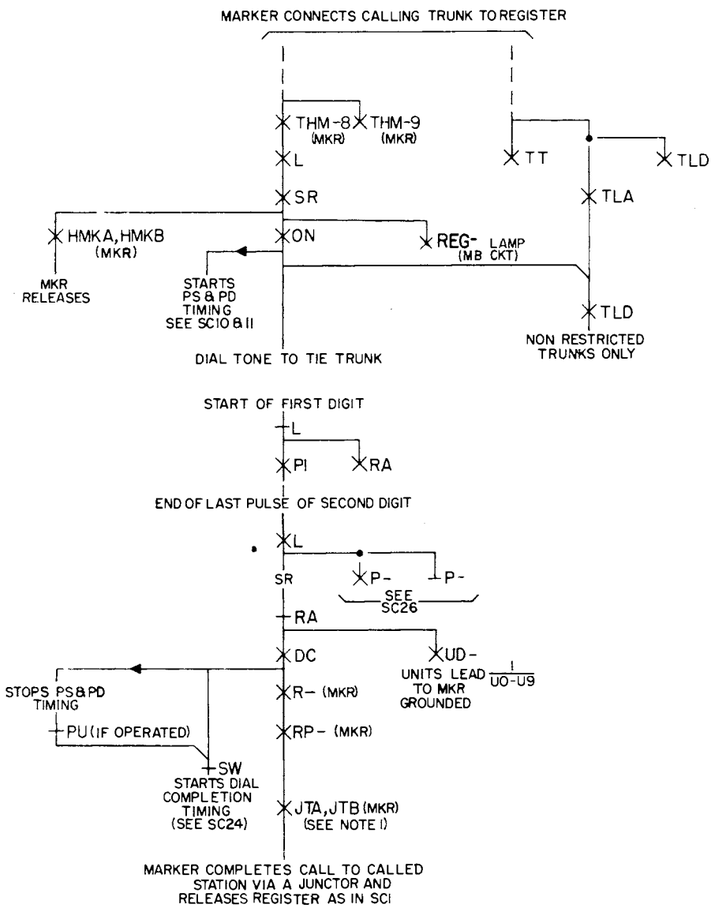
SD-65742-01-E4

BELL TELEPHONE LABORATORIES INCORPORATED

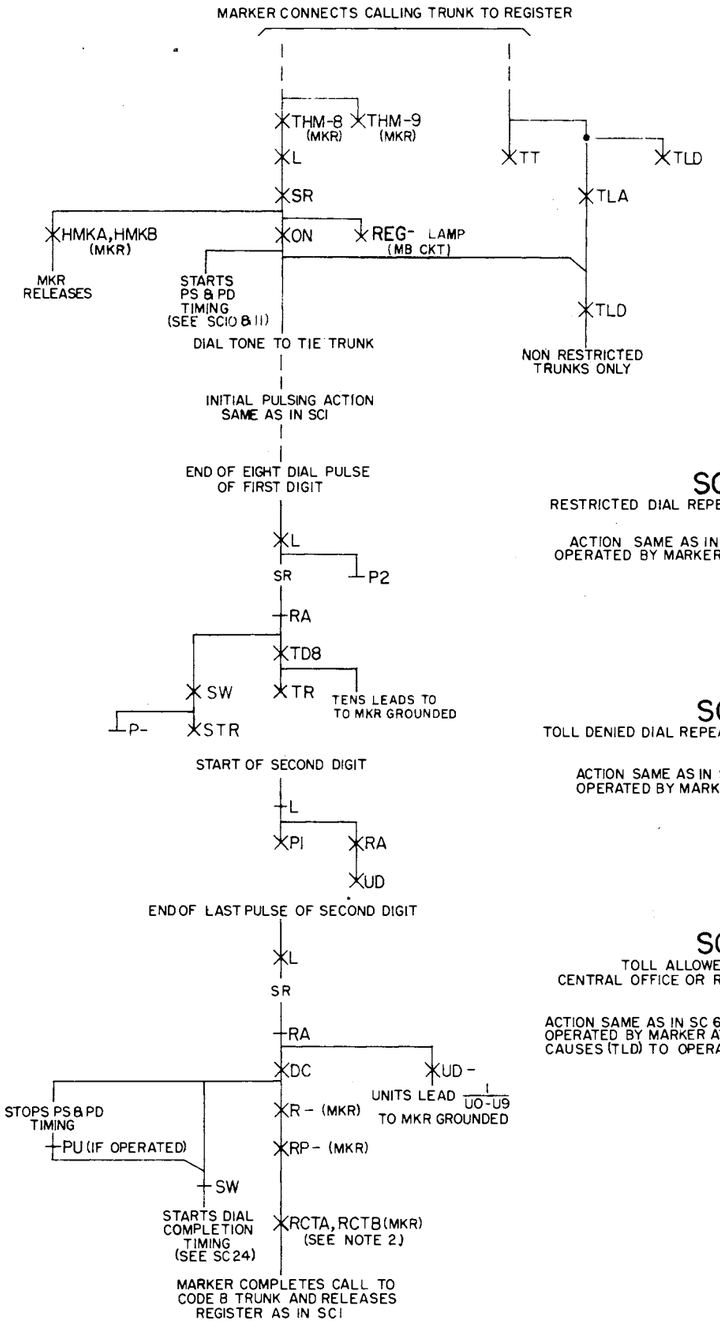
DWG SIZE 6S

PRINTED IN U.S.A.

SC14
DIAL REPEATING TIE TRUNK TO STATION CALL



SC15
DIAL REPEATING TIE TRUNK TO CODE 8 TRUNK CALL



SC16
RESTRICTED DIAL REPEATING TIE TRUNK DIALS 9

ACTION SAME AS IN SC4, WITH (TT) RELAY OPERATED BY MARKER AT REGISTER SEIZURE

SC17
TOLL DENIED DIAL REPEATING TIE TRUNK DIALS 9 CODE

ACTION SAME AS IN SC6 & 7 WITH (TT) RELAY OPERATED BY MARKER AT REGISTER SEIZURE

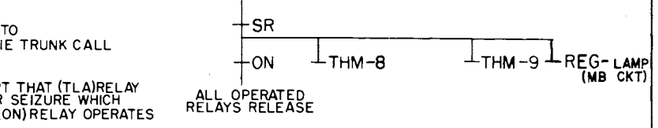
SC18
TOLL ALLOWED STATION TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL

ACTION SAME AS IN SC6 & 7 EXECPT THAT (TLA) RELAY OPERATED BY MARKER AT REGISTER SEIZURE WHICH CAUSES (TLD) TO OPERATE WHEN (ON) RELAY OPERATES

SC19
TOLL ALLOWED DIAL REPEATING TIE TRUNK TO CENTRAL OFFICE OR RINGDOWN TIE TRUNK CALL

ACTION SAME AS IN SC 18 WITH (TT) RELAY ALSO OPERATED BY MARKER AT REGISTER SEIZURE

SC 20
CALLED STATION OR TRUNK BUSY AND BUSY TONE TRUNK ALSO BUSY



SC21
ATTENDANT TRUNK TO STATION CALL

ACTION SAME AS IN SC1 FOR RESTRICTED STATION TO STATION CALL

SHEET NOTES:
1. WITH (OT), (TR), (COT), & (TMO) RELAYS RELEASED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (JTA) & (JTB) RELAYS IN THE MARKER TO OPERATE INDICATING A JUNCTOR TYPE CALL IS TO BE COMPLETED.
2. WITH THE (TR) RELAY OPERATED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (RCTA) & (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

27

DIAL PULSE REGISTER CIRCUIT (2) | SD-65742-01-E5

BELL TELEPHONE LABORATORIES INCORPORATED | 6S

SD-65742-01-E5

SHEET NOTES:

1. IF X OPTION IS PROVIDED, CALL IS COMPLETED TO CODE 8 TRUNK. IF Y OPTION IS PROVIDED, CALL IS COMPLETED TO ANOTHER ATTENDANTS TRUNK.
2. WITH (OT)RELAY OPERATED, THE OPERATION OF THE (DC) RELAY WILL CAUSE THE (RCTA) AND (RCTB) RELAYS IN THE MARKER TO OPERATE INDICATING A TRUNK TYPE CALL IS TO BE COMPLETED.

DRAWING ISSUE

58
188
248
27D

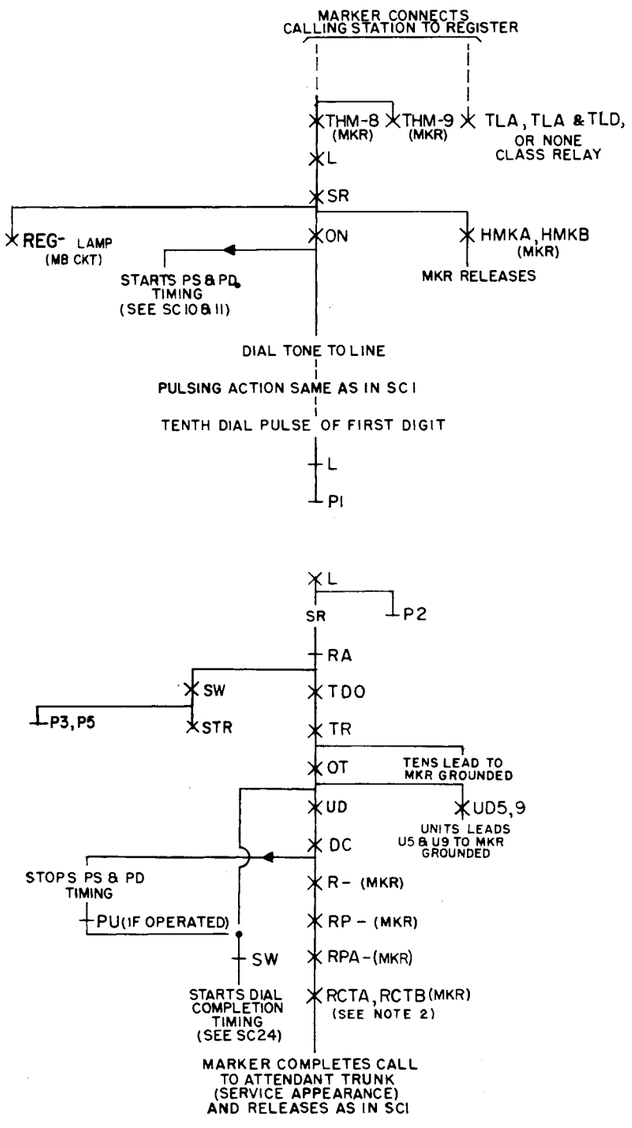
SC 22

ATTENDANT TRUNK TO CODE 5 TRUNK CALL

ACTION SAME AS IN SC 8 FOR RESTRICTED STATION TO CODE 8 TRUNK CALL (SEE NOTE 1)

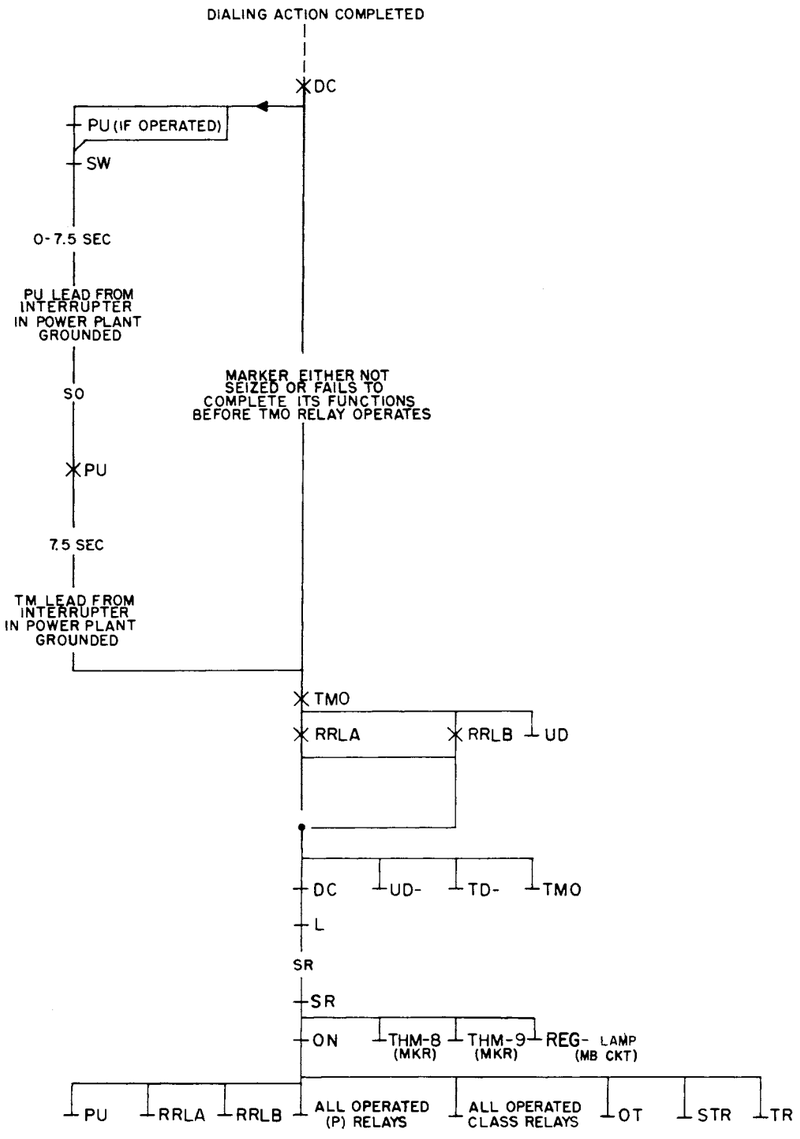
SC 23

STATION TO ATTENDANT TRUNK CALL



SC 24

DIAL COMPLETION TIME OUT



SD-65742-01-E6

DIAL PULSE REGISTER CIRCUIT (2) SD-65742-01-E6

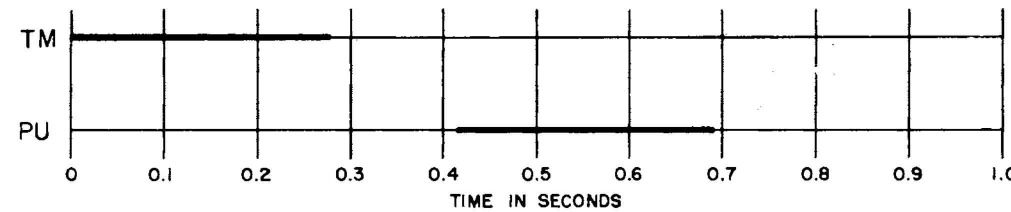
BELL TELEPHONE LABORATORIES INCORPORATED 6S

27

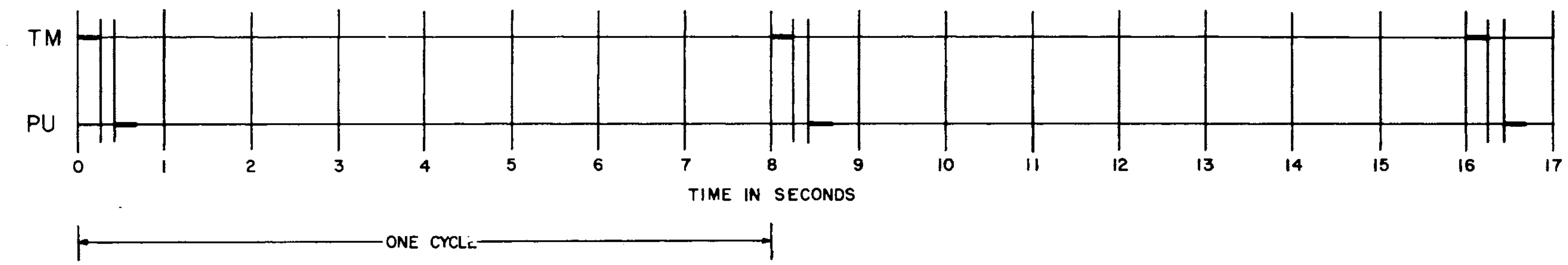
SC 25

INTERRUPTER OPERATION

TM AND PU GROUND SIGNAL DURATIONS

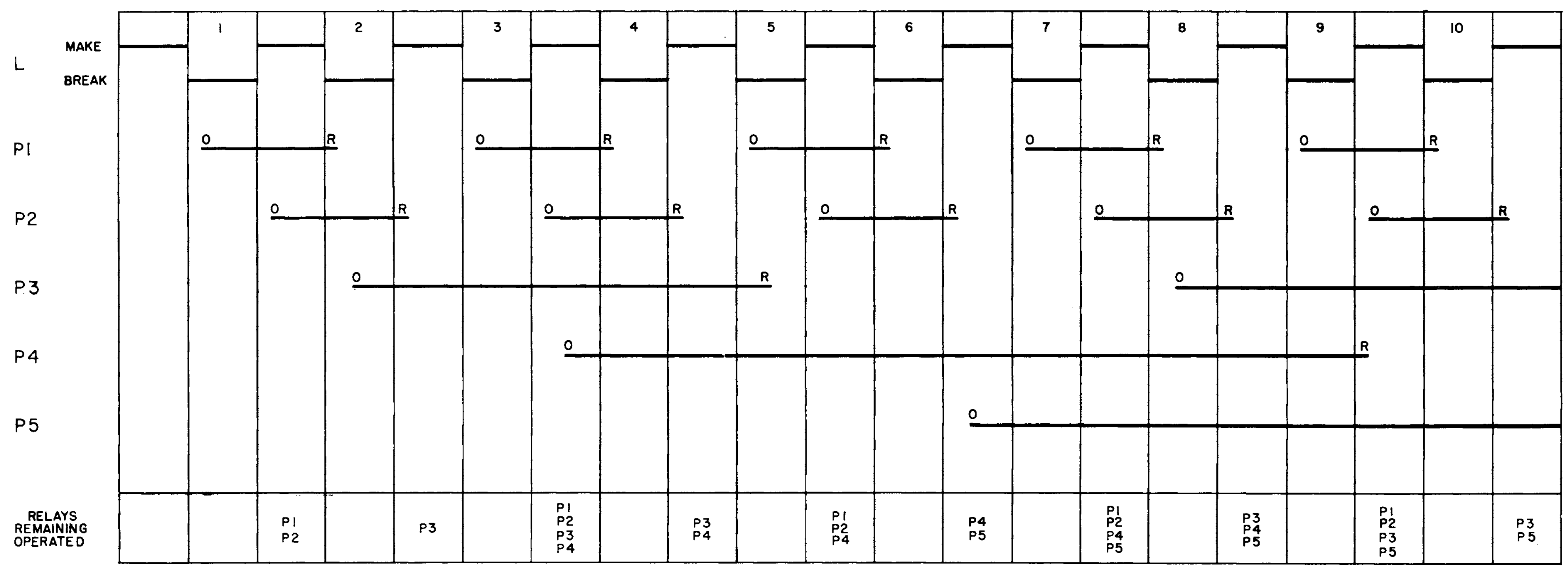


PULSE REPETITION RATE



SC 26

SEQUENCE CHART FOR P1, P2, P3, P4, & P5 RELAYS



PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SD-65742-01-E7

DRAWING ISSUE		
10B	E.S.	CRA PQB
15AR	LJL	WVH PD
18B	R.T	KB P.D.
19B	JJG	SJF PD
24B		
27D		PMC RHP

SC 27
DIRECT STATION SELECTION
BY ATTENDANT
(ZB OPTION)

ATTENDANT WITH PICKUP KEY OF CENTRAL OFFICE OR RINGDOWN TIE TRUNK OPERATED OPERATES DSS KEY AT CONSOLE — 20-89

POS–

H (CDLS POS)

HD (TRK) — SO

SP (CDLS POS) — HA (CDLS POS)

H (CDLS POS)

MKR CONNECTS TRUNK TO IDLE REGISTER

THM-9 (MKR) — THM-8 (MKR) — COT

L

SR

HMKA,B (MKR) — MKR RELEASES

ON — START PS & PD TIMING (SEE SC 10 & SC 11)

AC — UD — DC

REG- LAMP (MB CKT)

TD- — TENS LEAD TO MKR GROUNDED

UD- — UNITS LEAD TO MKR GROUNDED

AC

STOPS PS & PD TIMING

MKR CONNECTS TRUNK TO CALLED STATION OR TRUNK AND RELEASES

RRLA,B — BUSY LAMP AT CONSOLE CORRESPONDING TO CALLED STATION OR TRUNK

DC — ATTENDANT RELEASES DSS KEY

L — HA (CDLS POS)

TD- — UD-

RA

SR

SR

ON — THM-9 (MKR) — THM-8 (MKR) — REG- LAMP (MB CKT)

SR — COT — UD — RRLA,B

SR — RA

SC 28
SINGLE DIGIT DIALING (ZC OPTION & APP FIG. 5)
(SEE NOTE 1)
MKR CONNECTS CALLING STATION TO REGISTER

THM-8 (MKR) — THM-9 (MKR) — TLA/TLA,D/NONE

L

SR

ON — HMKA,B (MKR) — MKR RELEASES — REG- LAMP (MB CKT)

STARTS PS & PD TIMING (SEE SC 10 & SC 11)

DIAL TONE TO STATION

START OF FIRST DIGIT

L

DIAL PULSE — PI — RA

L

P2

L

DIAL PULSE 2 (LAST) — PI — P2A

P3

L

SR — P2

RA

TD2

SW — TENS LEAD T2 TO MKR GROUNDED

STR — P3

GRD CONNECTED TO SD THRU SD REL DIODE

48V REMOVED FROM TRANSISTOR. CAPACITOR VOLTAGE DECREASES UNTIL Z DIODE REACHES BREAKDOWN POINT. TRANSISTOR BASE POTENTIAL RISES TO POINT OF FORWARD BIAS.

APPROX 3 SEC

TXSTR POS BIASED

SD

UD — UD- — UNIT LEAD "0" TO MKR GROUNDED

DC

48V RESTORED TO RB RESISTOR

STOPS PS & PD TIMING

MKR COMPLETES CONNECTION IN SAME MANNER AS TWO DIGIT DIALED CALL

SC 29
STATION 21 CALLING STATION 57
(SEE NOTE 2)
TOUCH TONE CALLING INTO REGISTER
MKR CONNECTS CALLING STATION TO REGISTER

THM-8 (MKR) — THM-9 (MKR) — PREVIOUS MKR ACTION

L

SR — HMT (MKR)

REG- LAMP (MB CKT) — RHK (MKR) — HMK (MKR)

ON — MKR RELEASES

DIAL TONE TO STATION

DEPRESS 5 BUTTON

KRA — TD5 — GRD ON T5 LEAD TO MKR

P2A

TOUCH TONE 5 — RELEASES 5 BUTTON

KRA

SW

STR

DEPRESS 7 BUTTON

KRA — UD7 — GRD ON U7 LEAD TO MKR

UD

TOUCH TONE 7 — RELEASES 7 BUTTON

KRA

DC

R- (MKR)

RP- (MKR)

STOPS PS & PD TIMING

PU (IF OPERATED)

SW — STARTS DIAL COMPLETION TIMING (SEE SC 24)

MKR CONNECTS STATION 21 TO STATION 57 VIA A JUNCTOR AND RELEASES REGISTER AS IN SC1.

SHEET NOTES:

1. SC 28 ASSUMES THAT TENS GROUP 2 IS ARRANGED FOR SINGLE DIGIT DIALING.
2. SC29 ASSUMES TOUCH-TONE CALLING RECEIVING CIRCUIT IS TYPE C1.

21

DIAL PULSE REGISTER CIRCUIT (2) — SD-65742-01-E8

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

CIRCUIT REQUIREMENTS

NO. 756A DIAL PULSE REGISTER CKT. (DP REG)

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAYS																	
AC	AJ202	ZB	2	500					U(AC)	GRD			0		42.5	40.5	
BY	AJ30		1	256					U(BY)	GRD			0		28.5	27	
COT	AF64		2	219			10(COT)	L(COT)		BAT.			0		11.1	10.6	
DC	AF55		3	26			1(DC)	L(DC)	U(DC)	B/G	1		0		37	35	
H1,H2, H3	295A		8					1 REL TST		BAT.	2		0		33		WRG OPTION Y1 IS PROVIDED.
H1 H2, H3	295A		8						1 REL TST	GRD	2		0		33		WRG OPTION YJ IS PROVIDED.
KPC	AF132	Q	2	61					U(KPC)	GRD			0		34	32.5	
KRA	AF16	Q,ZB	2	204					U(KRA)	GRD			0		30.5	29	
L	292A		3									P	0	36	17		
												P	NO		10		
												P	H		7.2		
												P	R		4.8		
												S	0		24.5		
												T	0		20.5		
L1,L2, L3,L4	295A		8					1 REL TST		BAT.	2		0		33		WRG OPTION Y1 IS PROVIDED.
L1,L2 L3,L4	295A		8						1 REL TST	GRD	2		0		33		WRG OPTION YJ IS PROVIDED.
ON	AF132		2	61					U(ON)	GRD			0		34.5	32.5	
OT	AF120		3	406			4B(TMO)		U(OT)	GRD			0		20.5	19.5	
P1	AF515		1	31					U(P1)	GRD			0		95	90	
P2	AF518		1	224			12(P2)		U(P2)	GRD			0		105	95	

TEST NOTES:
1. BUSY REGISTER BY INSERTING PLUG IN "TST" JACK.
2. DISENGAGE CONNECTOR ON BACK OF RECEIVER.

DRAWING ISSUE

1	J.C. F.G.S. W.S.
4B	C.M. J.B.S. T.E.B.
5B	CAS. L.H.E. P.O.B.
9B	V.S. M.R. T.E.B.
10B	E.S. K.R.A. P.O.B.
15AR	L.J.L. W.H.H. P.D.
18B	R.T. K.B. P.D.
19B	J.J.G. S.J.F. P.D.
22D	E.W.E. S.A.K. K.F.J.
26D	F.E.D. P.J.S. R.H.R.

(2 PAGES) PAGE 1

DIAL PULSE REGISTER CIRCUIT — SD-65742-01-F1

BELL TELEPHONE LABORATORIES, INC

PRINTED IN U.S.A.

E-7423 (4-59)

SD-65742-01-F1

CIRCUIT REQUIREMENTS

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPTION	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
P2A	AF63	ZX	1	229			6B(P2A)		U(P2A)	GRD			0		7.	6.7	
P2A	AK30	ZY,YH		202			6B(P2A)		IL(P2A)	GRD			0		23.5	22	1/2 AK
P3	AF515		1	31			(P2A)C		U(P3)	GRD			0		95	90	
P4	AF515		1	31			(P2)O		U(P4)	GRD			0		95	90	
P5	AF515		1	31					U(P5)	GRD			0		95	90	
PU	AF65		2	401			(DC)NC		U(PU)	GRD			0		36	34	
POS1,2	AJ5	Q	4	220					U REL TST	GRD			0		13.2	12.6	
POS1,2	AJ202	ZB	4	500					U REL TST	GRD			0		42.5	40.5	
RA	AG35		1	67B					IU(RA)	GRD		P	0	FS	31.5	30	SHORT CIRCUIT SECONDARY WDG.
									IU(RA)	GRD		P	H	FS	4.7	4.4	WHEN TESTING (RA) NOT WIRED
									IU(RA)	GRD		P	R	FS	3.3	3.6	IN CKT
RRLA	1/2 AK5		2	4					IL(RRLA)	GRD			0		16.5	15	MOUNTED WITH (RRLB)
RRLB	1/2 AK5		2	4					IU(RRLB)	GRD			0		16.5	15	MOUNTED WITH (RRLA)
RT	AF63		2	229					U(RT)	GRD			0		7.1	6.7	
RV	AF118		1	401				L(RV)	U(RV)	B/G			0		14.	13.3	
SD	AJ83		5	249			8(SD)	L(SD)	U(SD)	B/G	5		0		13.2	12.6	
SR	AG15		2	221					U(SR)	GRD			0	FS	18.5	17.5	REMOVE (L) RELAY BEFORE
									U(SR)	GRD			H	FS	2.5	2.3	TESTING (SR) RELAY
									U(SR)	GRD			R	FS	0.5	0.8	
STR	AJ12		3	220					U(STR)	GRD			0		49.5	47	
STR1	295A		8					I(STR1)		BAT.	4		0		33		WRG OPTION Y1 IS PROVIDED.
STR1	295A		8						I(STR1)	GRD	4		0		33		WRG OPTION YJ IS PROVIDED.
SW	AF114		3	54					U(SW)	GRD			0		24.5	23	
TD1, TD2, TD3, TD4, TD5	293A		3				(ON)O, 8B(TMO), 6B&11B(TR), 5B(OT)			GRD	1,2		0		9.5		
										GRD	1,3		0		15		
TD6, TD7, TD8, TD9, TD0	293A		3				(ON)O, 8B(TMO), 6B&11B(TR) 5B(OT)			GRD	1,2		0		9.5		
										GRD	1,3		0		15		

TEST NOTES:

1. PROCEDURE FOR TESTING DRY REED RELAYS
   CONNECT TEST SET GRD. TO TERMINAL OF RELAY UNDER TEST (15, 25, 35, 45, 55)
   CONNECT DIRECT BATTERY TO TERMINAL L2 OF TEST SET
   PLACE L KEY IN NEUTRAL POSITION
   CONNECT SLEEVE OF TST T AND R JACK TO LOAD CONTACT (12, 22, 32, 42, 52)
   ADJUST RED RHEOSTAT 4 AND THE THREE (4) SWITCHES FOR MINIMUM RESISTANCE

STEP	ACTION	INDICATION	CHECK
A	ADJUST BLACK RHEOSTATS 1, 2, AND 3 TO OBTAIN CURRENT FLOW DESIRED FOR TEST		
B	CONNECT THE TIP OF THE 4W JACK TO TERMINAL (54) OF THE RELAY GROUP UNDER TEST.		
C	CLOSE OPERATE KEY	LAMP LIGHTS	CLOSURE OF LOAD CONTACT
D	CLOSE 4 KEY AND OPEN OPERATE KEY	LAMP REMAINS LIGHTED	CLOSURE OF LOCKING CONTACT

1. (CONT)

STEP	ACTION	INDICATION	CHECK
E	OPEN 4 KEY	LAMP EXTINGUISHES.	OPEN OF LOAD CONTACT
F	CLOSE 4 KEY	LAMP REMAINS EXTINGUISHED	OPEN OF LOCKING CONTACT

2. BEFORE TURNOVER TEST REQUIREMENT.
3. AFTER TURNOVER TEST REQUIREMENT.
4. DISENGAGE CONNECTOR ON BACK OF RECEIVER.
5. USE CAUTION IN CONNECTING BATTERY AND GROUND TO PROPER TERMINALS.

DRAWING ISSUE

1	J.C. F.G.S. W.S.
4B	C.M. J.B.S. T.E.B.
5B	CAS. L.H.E. P.O.B.
9B	V.S. M.R. T.E.B.
10B	E.S. K.R.A. P.O.B.
15AR	L.J.L. W.H.H. P.D.
18B	R.T. K.B. P.D.
19B	J.J.G. S.J.F. P.D.
22D	E.W.E. S.A.K. K.F.J.
26D	F.E.D. P.J.S. R.H.R.

(2 PAGES) PAGE 2

DIAL PULSE REGISTER CIRCUIT (2) — SD-65742-01-F1

BELL TELEPHONE LABORATORIES, INC — DWG SIZE 6S

PRINTED IN U.S.A.

CIRCUIT REQUIREMENTS

APPARATUS DESIG	CODE	OPT	FIG.		MECH REQT BSP FIG.	CONT PRESS.	ARM. TRVL	CIRCUIT PREPARATION BLOCK OR INSULATE	TEST CLIP DATA CONN BAT.	CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	TEST FOR	AFTER SOAK MA.	TEST MA.	READJ MA.	REMARKS
TLA	1/2AK2		2		1			12(TLA)	2U(TLA)		BAT.			0		15.5	14.5	MOUNTED WITH (TT)
TLD	AF52		2		19				L(TLD)		BAT.			0		29.5	28	
TMO	AJ12		2		220			1M(TMO),(OT)O	L(TMO)	U(TMO)	B/G			0		42.5	40.5	
TR	AJ3		3		226			2B,6B,12M (TR)		U(TR)	GRD			0		19	17	
TT	1/2AK2		2		1				2L(TT)		BAT.			0		15.5	14.5	MOUNTED WITH (TLA)
UD	AF57		3		210					U(UD)	GRD			0		27	25.5	
UD1-5	293A	Q,ZB	3					(ON)O, 6B(KRA)			GRD	1,2		0		9.5		
											GRD	1,3		0		15		
UD6-0	293A	Q,ZB	3					(ON)O, 6B(KRA)			GRD	1,2		0		9.5		
											GRD	1,3		0		15		

DRAWING ISSUE		
1	JC FGS	WS
4B	CM JBS	TEB
5B	CAS LHE	PDB
9B	VG MK	TEB
10B	ES CRA PDB	

TEST NOTES:

1. PROCEDURE FOR TESTING DRY REED RELAYS.
   CONNECT TEST SET GRD TO TERMINAL OF RELAY UNDER TEST (15,25,35,45,55).
   CONNECT DIRECT BATTERY TO TERMINAL L2 OF TEST SET
   PLACE L KEY IN NEUTRAL POSITION.
   CONNECT SLEEVE OF TST T AND R JACK TO LOAD CONTACT (12,22,32,42,52).
   ADJUST RED RHEOSTAT 4 AND THE THREE 4 SWITCHES FOR MINIMUM RESISTANCE.

STEP	ACTION	INDICATION	CLOSURE
A	ADJUST BLACK RHEOSTAT 1,2 AND 3 TO OBTAIN CURRENT FLOW DESIRED FOR TEST		
B	CONNECT THE TIP OF THE 4W JACK TO TERMINAL (54) OF THE RELAY GROUP UNDER TEST		

1. (CONT)

STEP	ACTION	INDICATION	CHECK
C	CLOSE OPERATE KEY	LAMP LIGHTS	CLOSURE OF LOAD CONTACT
D	CLOSE 4 KEY AND OPEN OPBW OPERATE KEY	LAMP REMAINS LIGHTED	CLOSURE OF LOCKING CONTACT
E	CLOSE 4 KEY	LAMP EXTINGUISHED	OPEN OF LOAD CONTACT
F	CLOSE 4 KEY	LAMP REMAINS EXTINGUISHED	OPEN OF LOCKING CONTACT

2. BEFORE TURNOVER TEST REQUIREMENT.
3. AFTER TURNOVER TEST REQUIREMENT.

(3 PAGES) PAGE 3

NO. 756A
DIAL PULSE REGISTER CIRCUIT

SD-65742-01-F2

BELL TELEPHONE LABORATORIES
INCORPORATED

PRINTED IN U.S.A.

E-7423-A (10-60)

SD-65742-01-F2

22

DRAWING ISSUE		
1	JC PRS	WS
4B	CM JBS	TEB
5B	CAS LHE	PDB
9B	VS MK	TEB
10B	ES KM PDB	

HO

10

PBX SYSTEMS
NO. 756A
DIAL PULSE REGISTER CIRCUIT

SD-65742-01-F2

BELL TELEPHONE LABORATORIES
INCORPORATED

DWG SIZE 6S

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