SD-66902-01

SHEET INDEX

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SC1 ORIGINATING A CONFERENCE SC2 (MD) ADDING A STATION (WITHOUT CONSULTATION) SC3 CONTROLLER LEAVES CONFERENCE TO ADD A STATION OR TRUNK	E1	5	5	5	5	5	5																																												E1
SC4 CONTROLLER RETURNS TO CONFERENCE AFTER DIAL TONE OR PARTIAL DIALING SC5 CONTROLLER RETURNS TO CONFERENCE WHEN CALLED STATION OTHER THAN DIAL REPEATING TIE TRK STA IS BUSY OR DA SC6 (MD) CONTROLLER AND CONSOLE ATTENDANT ADD CO TRK PARTY TO CONFERENCE; CKT NOT EQUIPPED FOR CONSULTATION SC7 (MD) CONTROLLER RELEASES FROM ATTENDANT TRK WITH PORTS 1-4 IN USE AND PORT 5 RESERVED FOR CO TRK CONNECTION	E2	5	5	5	5	5	5																																											E2

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DWGS	J-58829AD-( ) ED-
EQUIPMENT DESIGN REQ	J-58829

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 ISS	CD ISS	DWG ISS	CD ISS	DWG ISS	CD ISS
1	1	2D	1 APP 1D	3D	1 APP 2D
4D	1 APP 3D				

DWG ISS	CD ISSUE	DATE	DRAWN	APPD
5D	2D	5-23-66	JJH SAK RCL	RRS RAV GFH
6D	2D APP 1D	4-12-67	BMW PJS RCL	RHB LAH RHP
7A	2D APP 2A	3-14-68	ROZ PJS ARR	RRS LAH LDJ
8D	2D APP 3D	9-9-71	DGS JBS	WVS SGS AFR
9B	2D APPX 4B	5-30-73	WEF AHS	TCH RVL AFR
10D	2D APPX 5D	2-26-74	GDI CBH	WVS RVL AFR

HW DR DR DR

ISSUE 10D

SD-66902-01 2J07

PBX SYSTEMS
NO. 756A
DIAL CONFERENCE TRUNK CIRCUIT
STATION CONTROLLED

(DIAL CONF STA CONT)

A&M ONLY

SD-66902-01-AI
29 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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SD-66902-01-AI

10D

APPARATUS INDEX

DESIG	LOCATION FS	APP FIG.	EQPT
RELAYS			
BC1	2B4	1	2-AA
BC2	2B5	1	2-AA
BC3	2B6	1	2-AA
BC4	2B7	1	2-AA
BC5	2B8	1	2-AA
BC5S	6H3	3	2-Y
BCH1	2F6	1	2-Z
BCH2	2F6	1	2-Z
BCH3	2F6	1	2-Z
BCH4	2F6	1	2-Z
BCH5	2F6	1	2-Z
BR1	6C3	3	2-Y
BR2	6C3	1	2-AA
BY	4B6	1	2-Z
CF	6G3	3	2-Y
CO	3B/B6	2	2-Z
CR1	2D4	1	2-AA
CR2	2D5	1	2-AA
CR3	2D6	1	2-AA
CR4	2D7	1	2-AA
CR5	2D8	1	2-AA
CRDK	2C8	1	2-AA
DO	1G4	1	2-AA
DOA	1H4	3	2-Y
DOM	2A9	1	2-AA
DOR	1C3	1	2-AA
D1	1F7	1	2-AB
D8	1D4	1	2-AA
D9W	2F4	1	2-AB
FO	4F8	1	2-AB
FOM	4E9	1	2-Z
L	1E8	1	2-AB
MC	1F4	1	2-AA
ON	1B2	1	2-AA
ONA	1C2	1	2-Z
ONRL	1E6	1	AA
P			
PM	1H8	1	2-AB
PMR	6F3	3	2-Y
RRL	4G8	1	2-Z
RS	1E4	1	2-AB
RS1	6A3	3	2-Y
RT	4F5	1	2-Z
RV	2B3	1	2-AB
S1	3A/E1	1	2-AB
S2	3A/F3	1	2-AB
S3	3A/F5	1	2-AB
S4	3A/F7	1	2-AB
S5	3B/G4	1	2-AB
SRC	1A2	1	2-AB
TE	4B8	1	2-Z
TEA	4C8	1	2-AB
TP1	4B3	1	2-AB
TP2	4B3	1	2-AB
TP3	4C3	1	2-AB
TP4	4D3	1	2-AB
TP5	4D3	1	2-AB
TPDK	4D0	1	2-AA
Z	2H4	1	2-AA
INDUCTORS			
L1	3B/F2	2	2-Z
L2	3A/H1	3	2-Y

DESIG	LOCATION FS	APP FIG.	EQPT
RESISTORS			
DO	1G4	3	2-Y
FO	4D9	2	
P	4G4	3	2-Y
RD	1E5	1	
RO	1C8	1	2-AA
R1	3A/E1	1	2-AB
R2	3A/E3	1	2-AB
R3	3A/E5	1	2-AB
R4	3A/E7	1	2-AB
R5	3B/E3	1	2-AB
R6	2G5	1	2-Z
R7	2H5	1	2-Z
R8	1D6	1	2-Z
R9	1A8	1	2-Y
M	4G4	3	
S1	3A/G1	1	2-Z
S2	3A/H2	1	2-Z
S3	3A/H5	1	2-Z
S4	3A/H6	1	2-Z
S5	3B/H1	1	2-Z
T	4D9	2	
T2R	3B/D0	3	
T2T	3B/D0	3	
DIODES			
A	4G4	1	2-AB
B	4G3	1	2-AB
BC5	2C8	3	
BR1	6D3	3	
CO0	1B3	2	
CO1-4	2F6	2	
D8	1C3	3	
FO	4F8	2	
RS1	6C1	3	
RT	4G5	3	
CAPACITORS			
A	1B8	1	2-AA
B	3A/E1	1	2-AB
C	3A/E3	1	2-AB
D	3A/E5	1	2-AB
E	3A/E7	1	2-AB
F	3B/E3	1	2-AB
G	4H1	1	2-AB
H	4H2	1	2-AB
K	4G2	1	2-Z
L	1D6	1	2-Z
P	4G4	3	
THERMISTOR			
A	2D2	1	2-AB
B	1C1	1	2-Z
C	4G7	1	2-Z
REPEAT COIL			
T1	4F3	1	2-Z
VARISTORS			
FO1	4D9	2	
FO2	4D9	2	
CONNECTORS			
CA	5B0	1	
FO	4C8	2	
RD	1E5, 4A8	1	
PLUG IN UNITS			
CA	5D4	1	
FO	4A8	1	
	4D8	2	
RD	1C6	1	
	1E4		

LEAD INDEX

DESIG	FS LOC
LINE LINK & MARKER CKT	
CCC	1H1
DO	1G1
D8	1D1
D9	2H2
HM5	1B5
IT5	1B4
MON1	3B/B5
MON2	3B/B5
OTG	2F7
R1	3A/A0
R1	3A/A2
R1	3A/A4
R1	3A/A6
R1	3B/A1
R2	1A7
RLS	1F1
RS	1E1
S1	3A/A0
S1	3A/A2
S1	3A/A4
S1	3A/A6
S1	3B/A1
S2	1A6
T1	3A/A0
T1	3A/A2
T1	3A/A4
T1	3A/A6
T1	3B/A1
T2	1A7
PWR SUP OR RING (INT) CKTS	
BT	4H1
RING G OR RG	4F6
R1	4F6
6 PORT CONFERENCE CKT	
RO	1B8
R1	3A/D1
R2	3A/D3
R3	3A/D5
R4	3A/D7
R5	3B/D3
TO	1C8
T1	3A/D1
T2	3A/D3
T3	3A/D5
T4	3A/D7
T5	3B/D3

DESIG	FS LOC
REL TIME DEL CKT, RD	
ON1	1D6
ON2	1D6
ON3	1D6
ON4	1D5
RD1	1E5
RD2	1E5
RD3	1E5
RD4	1D5
552A,B,D,E,605A,607A,B, OR 608A JACK CKT	
R	3B/C4
S	3B/D4
SL	3B/C4
T	3B/C4
REL TIME DEL CKT, FO	
FO1	4D8
FO2	4C8
FO3	4D8
FO4	4C8, 4B8
FO5	4B8
FO6	4B8
FO7	4B8
608D JACK AND LAMP CKT	
R	3B/C4
S	3B/D4
SL	3B/C4
T	3B/C4

OPTION INDEX

APP OR WIRING	LOCATION
3	APP FIG. 3, 1F7 1C4, 1D3, 1F6, 1G3, 1G4, 1G7, 1G8, 2E7, 2E8, 2E9, 2C9, 2F1, 4E3, 4G4, 2F0, 4H3, 2G6, 4H4
2	APP FIG 2, 2F6, 3B/E2, 3B/F2, 4F8
Z	1B1, 1C0, 1C2, 2F5, 2F6, APP FIG. 1
Y	1B1, 1C0, 1C1, 1C2, 2E5, 2F5, 2F6, APP FIG 1
W	3B/G2, 3B/G3, 4F8, 4E9, 3B/C1, 2
V	1C0-3, 1D3, 1D5, 1D6, 1F6, 1G3, 1G8, 1H4, 2E0, 2D8, 2F1, 2F6, 3B/H2, 3B/H3, 1F7 2C4, 2C9, 2B4, 2B5-8, 2E7, 2G6 4E7, 4G4, 5G1, APP FIG 1 & 2, 4F4, 4C9
T	APP FIG 1
S	APP FIG 1
R	APP FIG 1
Q	APP FIG 1
N	6C1
M	1D5, 1E6, 4C9, 4E4, 5G1, APP FIG. 1
K	3A/G1, 3A/G2, 3A/H5, 3A/H6, 3B/H1, APP FIG. 1
J	3A/G1, 3A/G2, 3A/H5, 3A/H6, 3B/H1, APP FIG. 1
G	4H3
F	4H3, 4H4

DRAWING ISSUE	
1	EJV KFJ
3D	JJH RKL GFH
4D	FJS RKU GFH
5D	JJH SAK GFH
6D	[illegible] FJS RHF
7A	ROZ FJS LDJ

ISSUE 9B

DIAL CONFERENCE TRUNK CIRCUIT

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BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SHEET INDEX

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SC8 CONTROLLER RECALLS CONSOLE ATTENDANT TO CO TRK WITH ALL PORTS IN USE AND A TRK ON PORT 5 SC9 CONTROLLER DIALS 9 OR 9_ TO GET CO TRK AND SERVICE IS DENIED SC10 ORIGINATOR DISCONNECTS WHILE REGISTER IS ATTACHED	E3	5	5	5	5	5																																										E3
SC11 ORIGINATOR DISCONNECTS WHILE ON CONFERENCE AMPLIFIER SC12 ADDED STATION DISCONNECTS WITH ORIGINATOR IN CONTROL AND 3 OR MORE STATIONS IN CONFERENCE SC13 ADDED STATION NOT IN CONTROL DISCONNECTS WITH ORIGINATOR DISCONNECTED; THREE OR MORE STATIONS IN CONFERENCE SC14 NEXT TO LAST STATION DISCONNECTS WITH ORIGINATOR DISCONNECTED SC15 STATION ON PORT 3 ASSUMES CONTROL AFTER ORIGINATOR DISCONNECTS	E4	5	5	5	5	5																																									E4
SC16 STATION 3 DISCONNECTS AFTER TAKING CONTROL ASSUME STA ON CONF AMP & SOME PORTS NOT USED SC17 CONTROLLER IN CONFERENCE FLASHES SWITCHHOOK WITH ALL PORTS BUSY (NO CO TRK IN CONFERENCE) SC18 (MD) CONTROLLER ADDS DIAL REPEATING TIE TRUNK; REGISTER ATTACHED (WITHOUT CONSULTATION)	E5	5	5	5	5	5																																									E5
SC19 (MD) CONN PARTY INTO CONF THRU CORD SWITCHBOARD WITHOUT CONSULTATION SC20 CONTROLLER RECALLS ATND WITH ALL PORTS IN USE AND PORT 5 CONN THRU CORD SWITCHBOARD SC21 NEXT TO LAST STA DISCONNECTS WITH ORIGINATOR DISCONNECTED AND LAST STA CONN TO PORT 5 THRU CORD SWITCHBOARD	E6	5	5	5	5	5																																									E6
SC22 ADDING FIRST STA (WITH CONSULTATION): CONF CONT COMPLETES DIALING-REGISTER CALLS MARKER SC23 ADDING ANY STA AFTER THE FIRST ONE (WITH CONSULTATION): CONF CONT COMPLETES DIALING, REGISTER CALLS MARKER AND REVERSES BATTERY, PRIVATE CONSULTATION SC24 CONT AND CALLED STA ENTER CONF (WITH CONSULTATION): CONT FLASHES SWITCHOOK TO REACH CONFERENCE BUSS	E7	5	5	5	5	5																																									E7
SC25 CALLED STA DISCONNECTS DURING CONSULTATION (WITH CONSULTATION) SC26 CONT ADDS DIAL REPEATING TIE TRUNK (WITH CONSULTATION) AT LEAST ONE STA ON CONFERENCE BUSS-REGISTER ATTACHED SC27 CONTROLLER RETURNS TO CONF WHEN DIAL REPEATING TIE TRUNK IS BUSY OR DA	E8	5	5	5	5	5																																									E8
SC 28 CONTROLLER CALLS ATND TO ADD CO PARTY SC 29 CONSOLE ATND DIALS IN CO PARTY	E9	5	5	5	5	5																																									E9
SC 30 SWBD ATND PLUGS CO PARTY INTO PORT 5 SC 31 CONTROLLER FLASHES TO INCLUDE BOTH CONTROLLER AND CO PARTY IN CONFERENCE	E10	5	5	5	5	5																																									E10

DRAWING ISSUE

5D	UJH SAK GFH	HW
6D	BMM PJS RHW	
7A	ROZ PJS LDJ	
8D		DR

ISSUE 10D

DIAL CONFERENCE TRUNK CIRCUIT

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SHEET INDEX

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SC 32 CO PARTY CONNECTED THRU CORD SWBD DISCONNECTS WHILE ON CONSULT BUSS SC 33 CO PARTY CONNECTED THRU CORD SWBD DISCONNECTS WHILE ON CONFERENCE SC 34 ORIGINATOR DISCONNECTS WHILE ON CONSULT BUSS WITH ANOTHER STATION	E11	5	5	5	5	5																																														E11
CKT REQT TABLES BC TO Z	F1	5	5	5	5	5																																														F1
CAD 1	G1	4	6	6	6	6																																														G1

DRAWING ISSUE	
5D	JJH SAK GFH
6D	BMM PJS RHP
7A	ROZ PJS LDJ
8D	

HW

ISSUE 10D

DIAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-A4

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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FSI

OFF NORMAL AND CALLING CONTROL

SHEET NOTE:
1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY. SEE NOTE 301
2 USE TERMINAL OF TIE TRUNK ASSIGNED AS POPT 5.

DIAL CONFERENCE TRUNK CIRCUIT (2) SD-66902-01-BI

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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FS 2

STEERING, CONNECT, AND BUSY BACK CONTROL

DRAWING ISSUE

/	KFJ	HW
3D	PJS RKU GFH	HW
4D	JJH SAK GFH	
5D	JJH SAK GFH	
6D	BMM NS RHP	

SHEET NOTES:
1. USE RELAY APPROPRIATE TO TIE TRUNK ASSIGNED AS PORT 5.

DIAL CONFERENCE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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PART OF FS3

CALLING PORTS

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 1 (SEE NOTE 1)

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 2 (SEE NOTE 1)

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 3 (SEE NOTE 1)

TO LINE, LINK AND MARKER CKT TIE TRK TERMINATION ASSIGNED AS PORT 4 (SEE NOTE 1)

TP1 TE TP2 TE TP3 TE TP4 TE

R7 3B/CO

T7 3B/CO

TEA 3B/CO

CONFERENCE AMPLIFIER CKT — C1, T1, T2, B, 3BO

CONFERENCE AMPLIFIER CKT — C7, T4, T3, C, 5EO

CONFERENCE AMPLIFIER CKT — C6, T3, T4, D, 5BO

CONFERENCE AMPLIFIER CKT — C12, T6, T5, E, 5FO

BC1 B R1 (T 2, S 3.83, T 898, S 600)

BC2 C R2 (T 2, S 3.83, T 898, S 600)

BC3 D R3 (T 2, S 3.83, T 898, S 600)

BC4 E R4 (T 2, S 3.83, T 898, S 600)

BC1 SI IL IU 2U 2L P-400 S-400 -48

BC2 S2 IL IU 2U 2L P-400 S-400 -48

BC3 S3 IL IU 2U 2L P-400 S-400 -48

BC4 S4 IL IU 2U 2L P-400 S-400 -48

4GO CRR

4FO CRT

CR1 CR2 CR3 CR4

BR1 3B/DO T2T 3B/DO T2R

RS1 -48 200 200 L2

SI S2 (K 100, J 84)

CRR 3B/GO

CRT 3B/GO

SHEET NOTES:

1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY, SEE NOTE 301.

DRAWING ISSUE

SUPERSEDES SHEET	ISS
2D	
3D	UJH RKJ GFH
5D	UJH SAK GFH

ISSUE 9B

DIAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-B3A

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SIZE 6S

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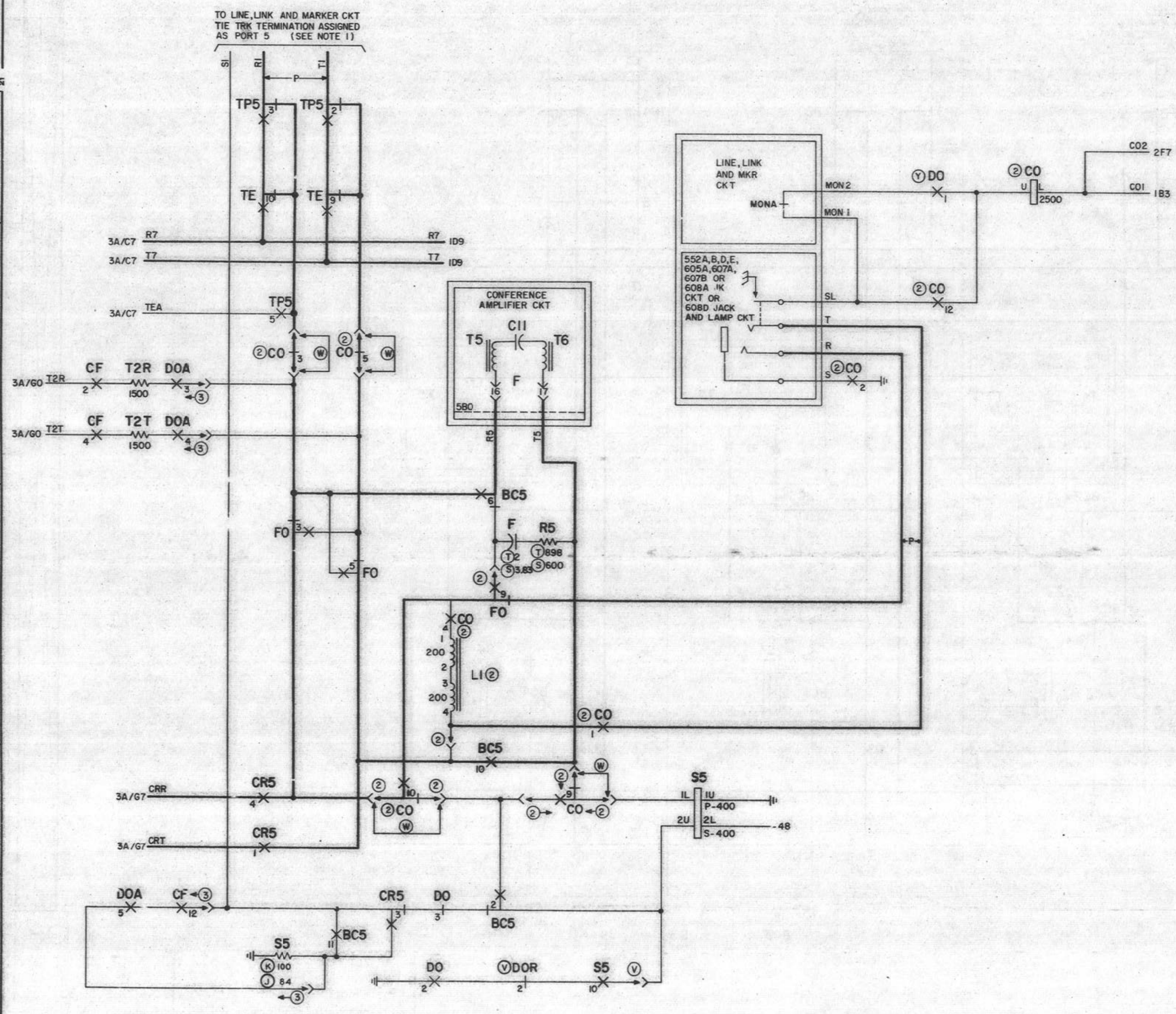
PART OF FS 3

CALLING PORTS



SHEET NOTES:

1. THE TIE TRUNK TERMINATIONS ARE ON TRK TERM. 80-89, AND THESE NEED NOT BE ASSIGNED CONSECUTIVELY, SEE NOTE 301.

DRAWING ISSUE	
3D	
4D	
5D	
6D	

ISSUE 9B

DIAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-B3B

BELL TELEPHONE LABORATORIES INCORPORATED

6S

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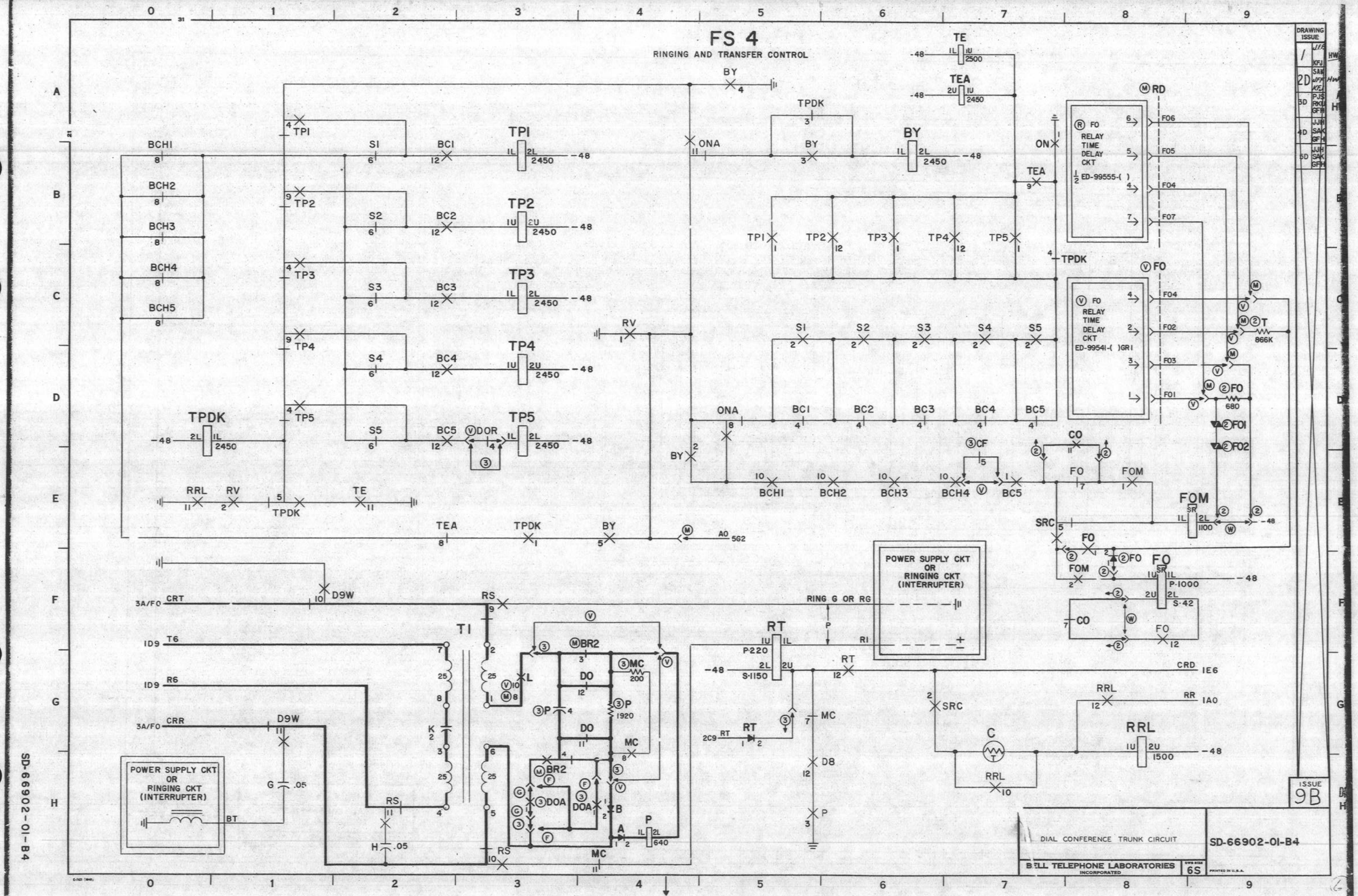
FS 4
RINGING AND TRANSFER CONTROL
RELAY TIME DELAY CKT
1/2 ED-99555-( )
RELAY TIME DELAY CKT
ED-99541-( )GR1
POWER SUPPLY CKT OR RINGING CKT (INTERRUPTER)
POWER SUPPLY CKT OR RINGING CKT (INTERRUPTER)
RING G OR RG
TPDK
TP1
TP2
TP3
TP4
TP5
BY
TE
TEA
RT
RRL
FOM
FO
T1
DRAWING ISSUE
ISSUE 9B
DIAL CONFERENCE TRUNK CIRCUIT
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FS 5

CONFERENCE BRIDGE CIRCUIT

DRAWING ISSUE		
1	SAK KFJ	HW
5D	JJH SAK GFH	

CA
906B
CONN

CA
J-99294AA

3B/D3 T5 P R5
3A/D5 T3 P R3
3A/D1 T1 P R1
1C9 T0 P R0
3A/D3 T2 P R2
3A/D7 T4 P R4

17 16 13 12 9 8 7 6 11 10 15 14 20 5

B D F C E A

A0 4F5

R9
KS-14603,L1A
715
-48

5

DIAL CONFERENCE TRUNK CIRCUIT

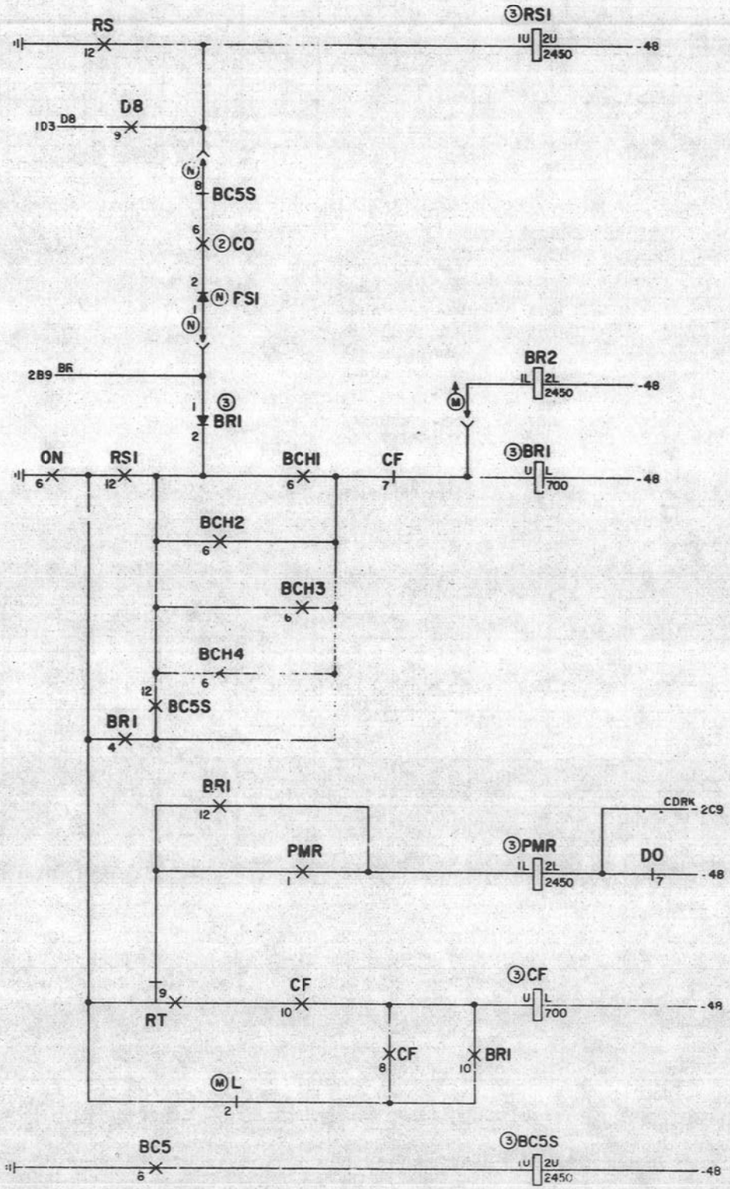
SD-66902-01-B5

BELL TELEPHONE LABORATORIES INCORPORATED

6S

FS 6

PRIVATE CONSULTATION



DRAWING ISSUE	
5D	JJH SAK GFH

HW

NAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-B6

BELL TELEPHONE LABORATORIES INCORPORATED

6S

5

SD-66902-01-B6

APP FIG. I

RELAY

DESIG	BC1		BC2		BC3		BC4		BC5		BCH1		BCH2		BCH3		BCH4		BCH5		BY		ONA		DESIG
CODE	AG20		AG20		AG20		AG20		AG20		AG24		AG24		AG24		AG24		AG24		AK4				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	CONT ARR	LOC	
12	M	4B2	M	4B2	M	4C2	M	4D2	M	4D2													M	1B6	12
11	M	3A/GI	M	3A/G3-	M	3A/H5	M	3A/H6	M	3B/HI													EBM	4B4	11
10	EBM	3A/EI	EBM	3A/E3	EBM	3A/E5	EBM	3A/E6	EBM	3B/F2	M	4E5	M	4E6	M	4E6	M	4E7	M	a			EBM	2A8	10
9	M	2B0	M	2A0	M	2A0	M	2AI	M	2AI													EMB	ID5	9
8	EMB		EMB	2B0	EMB	2BI	EMB	2BI	EMB	a	BM	4B0	BM	4B0	BM	4B0	BM	4C0	BM	4C0			EMB	4D5	8
7																									7
6	EMB	3A/EI	EMB	3A/E3	EMB	3A/E5	EMB	3A/E6	EMB	3B/E3	BM	6D2	BM	6DI	BM	6E2	BM	6EI	BM	2B2					6
5																					EMB	4E4			5
4	EBM	4D5	EBM	4D6	EBM	4D6	EBM	4D7	EBM	4D7	M	2A3	M	2A4	M	2A5	M	2A6	M	2A7	EMB	4A5			4
3	M	2B3	M	2B4	M	2B5	M	2B6	M	2B7											EBM	4B5			3
2	EBM	3A/FI	EBM	3A/F3	EBM	3A/F5	EBM	3A/F6	EBM	3B/G2											EBM	4E4			2
1	M	2H0	M	2H0	M	2G0	M	2G0	M	4E7											M	1B6			1
COIL		2B4		2B5		2B6		2B7		2B8		2F6		2F6		2F6		2F6		2G6		4B6		IC2	COIL

a (V) 2F0, 6HI

a (V) ICI, (3) IG4

RELAY

DESIG	CR1		CR2		CR3		CR4		CR5		CRDK		DI		D9W		DO		DO				FO		DESIG
CODE	AK4				AK4				AK4				AK30				AF98		AJ15				AG44		CODE
OPTION																	Z		Y						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			M	3A/G2			M	3A/G6			M	2D2			M	2F3			EBM	4G4			EM	4F8	12
11			EBM	2C4			EBM	2C6			EBM	IF5			EBM	4GI			EBM	4G4			M		11
10			EBM	3A/G3			EBM	3A/H6			EBM	IB8			EBM	4FI	EBM	2B9	EBM	2B9			M		10
9			EMB	3A/F2			EMB	3A/F6			EMB	IC8			EMB		B		EBM	IG6			BM	3B/E2	9
8			EMB	2D4			EMB	2D6			EMB	IG6			EMB	2F3	EBM	IB5	EMB	IB5					8
7																	B	7C8	EBM	6F5			BM	4E8	7
6																	EMB	IG3	EMB	IG3					6
5	EMB	2D3			EMB	2D5			EMB	2D7			EMB	IH7			B	2E8	EMB	2			BM	3B/E2	5
4	EMB	3A/FO			EMB	3A/F4			EMB	3B/GI			EMB	IF4			EBM	2A9	EBM	2A9			M		4
3	EBM	3A/GI			EBM	3A/H5			EBM	3B/H2			EBM	a			B	3B/H2	EBM	3B/H2			BM	3B/EI	3
2	EBM	2C3			EBM	2C5			EBM	2C7			EBM	2DI			M	3B/H2	EBM	3B/H2			M		2
1	M	3A/FO			M	3A/G4			M	3B/GI			M	2D2					EBM	3B/B5			M	4F8	1
COIL		2D4		2D5		2D6		2D7		2D8		2C8		1F8		2F4		IG4		IG4				4F8	COIL

a (V) 2FI, (3) 2F0

a (V) 2E7, (3) 2E8

CAPACITOR

DESIG	LOC	CODE
(T) A	IB8	542F, 2
(T) B	3A/EI	542F, 2
(T) C	3A/E3	542F, 2
(T) D	3A/E5	542F, 2
(T) E	3A/E7	542F, 2
(T) F	3B/E3	542F, 2
G	4HI	542W, .05
H	4H2	542W, .05
K	4G2	542F, 2
(V) L	ID6	437QA, 4.28
(S) A	IB8	705G, 3.83
(S) B	3A/EI	705G, 3.83
(S) C	3A/E3	705G, 3.83
(S) D	3A/E5	705G, 3.83
(S) E	3A/E7	705G, 3.83
(S) F	3B/E3	705G, 3.83

REPEAT COIL

DESIG	LOC	CODE
TI	4F3	202A, 25Ω

CONNECTOR

DESIG	LOC	CODE
(V) RD	ID6	KS-19198 LI
CA	5B0	906B
(M) RD	IE5, 4A8	910A

DIODE

DESIG	LOC	CODE
A	4H4	446F
B	4H4	446F

PLUG-IN UNIT

DESIG	LOC	CODE
(V) RD	ID6	ED-66715-( )
CA	5D4	J-99294-AA
(Q) RD	IE4	ED-99556-( )
(R) RD-FO	IE4, 4A8	ED-99555-( )

RESISTOR

DESIG	LOC	CODE
(T) RO	IC8	145A OR 221A, 898
(T) RI	3A/EI	145A OR 221A, 898
(T) R2	3A/E3	145A OR 221A, 898
(T) R3	3A/E5	145A OR 221A, 898
(T) R4	3A/E7	145A OR 221A, 898
(T) R5	3B/E3	145A OR 221A, 898
[I] R6	2G5	19RL
R7	2H5	
(V) R8	ID6	145A OR 221A, 898
R9	5GI	KS-14603 LIA, 715
RO	IC8	
RI	3A/EI	
R2	3A/E3	
(S) R3	3A/E5	145A OR 221A, 600
R4	3A/E7	
R5	3B/E3	
(M) RD	IE5	145A, OR 221A, 1.54 MEG

RESISTOR

DESIG	LOC	CODE		
[I] S1	3A/GI	(K) 19LC	(J) 19LG	
S2	3A/G2			
[I] S3	3A/H5	(K) 19LC	(J) 19LG	
S4				
S5	3B/HI	(K) 18BW	(J) 18EB	

THERMISTOR

DESIG	LOC	CODE
A	2D2	IC
(V) B	ICI	IF
C	4G7	IA

RELAY

DESIG	FOM		RRL				MC		ON		P		RS		RT		RV		PM		SI		S2		DESIG
CODE	AK37						AJ15		AF83		AK30				AJ58		AK4				AJ52		AJ52		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	CONT ARR	LOC	
12			EBM	4G8			EBM	ID2	M	IBI			M	6BI	EM	4G6			M	IF6					12
11			EBM	4E0			EBM	4H4	M	IAI			EBM	4H2	B	IF3			EBM	2E4					11
10			M	4H7			EBM	IE2	M	IH6			EBM	4H3	M	2C7			EBM	2DI	M	2EI	M	2E5	10
9			B				EBM	IG8	M	2C3			EMB	4F3	BM	6GI			EMB	IG2					9
8			EMB	2D0			EMB	4G4	M	IBI			EMB	IE3					EMB	IH8	EMB	2F5	EMB	2F5	8
7							EBM	4G5	M	ICO					B	IF7									7
6							EMB		M	a											EMB	4B2	EMB	4B2	6
5	B						EMB	IG3	M	IF5	EMB				B	ID4	EMB								5
4	B						EBM	IC5	M	2D0	EMB	IC4			M	2C6	EMB				EBM	2D3	EBM	2D5	4
3							EBM	2H3	M	2G2	EBM	4H5			BM	2C5	EBM	2D2							3
2	EBM	4F8					EBM	IH2	M	2E3	EBM				M	2C4	EBM	4EI			M	4C5	M	4C6	2
1	M	4E8					EBM	IG2	M	4B7	M	IG3			M	2C3	M	4C4							1
COIL		4E9		4G8				IF4		IB2		4H4		IE4		4F5		2B3		IH8		3A/F1		3A/F3	COIL

a (V) IH4, 6DO

RELAY

DESIG	S3		S4		S5		SRC		TE		TPI		TP2		TP3		TP4		TP5		TEA				DESIG
CODE	AJ52		AJ52		AJ52		AG44		AJ5		AK4				AK4		AK4		AK4						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	CONT ARR	LOC	
12							EM	IA2	EBM	IG6			M	4B6			M	4B7			M				12
11							M		EBM	4E2			EBM	3A/B2			EBM	3A/B6			EBM	3A/C0			11
10	M	2E6	M	2E7	M	d	M	2D0	EBM	3B/BI			EBM	3A/B2			EBM	3A/B6			EBM				10
9							BM		EBM	3B/BI			EMB	4BI			EMB	4C1			EMB	4B7			9
8	EMB	2F5	EMB	2F5	EMB	b			EBM	3A/B6			EMB	3A/C2			EMB	3A/C6			EMB	4E2			8
7							BM	ID4	EBM	3A/B6															7
6	EMB	4C2	EMB	4D2	EMB	4b2			EBM	3A/B4															6
5							BM	4E7	EBM	3A/B4	EMB	3A/C0			EMB	3A/C4			EMB	3B/CI					5
4	EBM	2D6	EBM	2D7	EBM	2D8	M	ICI	EBM	3A/B2	EMB	4AI			EMB	4CI			EMB	4DI					4
3							BM		EBM	3A/B2	EBM	3A/B0			EBM	3A/B4			EBM	3B/BI					3
2	M	4C6	M	4C7	M	4C7	M	4G6	EBM	3A/B0	EBM	3A/B0			EBM	3A/B4			EBM	3B/BI					2
1							M	IBI	EBM	3A/B0	M	4B5			M	4B6			M	4B7					1
COIL		3A/F5		3A/F7		3B/G4		IA2		4A7		4B3		4B3		4C3		4D3		4A7		4A7			COIL

a (V) 3B/H3, (3) 2G6

b (V) 2G6, (3) IG3

RELAY

DESIG	TPDK		D8		Z		DOM		DOR		BR2		ONRL		L		L		DESIG
CODE	AK4				AK8				AK4						AJ52		AJ138		CODE
OPTION									V		M				V		M		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	
12			M	4H5			M	2B8					M				B	IF6	12
11			EBM	IG2			M						EBM	4B0					11
10			EBM	IF6			EBM	2F0					EBM		M	4G3	B	2G2	10
9			EMB	6BI			EMB						EMB						9
8			EMB	ID3			EM	IC2					EMB		EMB	IF6	M	4G3	8
7																			7
6															EMB	IAI	BM	IAI	6
5	EMB	4EI			EM				EMB	IC2	EMB	2E0							5
4	EMB	4C7			B	2C8			EMB	4D3	EMB	4H3			EBM	2G2	M	2G2	4
3	EBM	4A5			EBM	2G4			EBM	IH3	EBM	4G4							3
2	EBM	IF6			EBM				EBM	3B/G3	EBM				M		B	6HI	2
1	M	4E3			M	2G2			M		M								1
COIL		4D0		ID4		2H4		2A9		IC3		6C3				IE8		IE8	COIL

DRAWING ISSUE

1	SRK
2D	KFJ, SAK, GFH, KFJ
3D	JJH, RKU, GFH
4D	JJH, SAK, GFH
5D	J JH, SAK, GFH
6D	BMW, FJS, RHP
7A	ROZ, PJS, LCJ
8D	

ISSUE 9B

DIAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-C1

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

SD-66902-01-C1

APP FIG. 2

RELAY

DESIG	CO									
CODE	AJ5									
OPTION										
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC
12	EBM	3B/C5								
11	EBM	4D8								
10	EBM	3B/G2								
9	EBM	3B/G3								
8	EBM	2B9								
7	EBM	4F8								
6	EBM	6C1								
5	EBM	3B/C2								
4	EBM	3B/E2								
3	EBM	3B/C1								
2	EBM	3B/D5								
1	EBM	3B/F3								
COIL		3B/B6								

CONNECTOR

DESIG	LOC	CODE
(V) F0	4C8	910A

DIODE

DESIG	LOC	CODE
C00	IB3	446F
C01-4	2F6	446F
F0	4F8	446F

INDUCTOR

DESIG	LOC	CODE
L1	3B/F3	274L

PLUG IN UNIT

DESIG	LOC	CODE
(V) F0	4D8	ED-99541-( ) GROUP 1

RESISTOR

DESIG	LOC	CODE
F0	4D9	KS-14603 L1A,680
T	4C9	144A,866K

VARISTOR

DESIG	LOC	CODE
F01	4D9	100E
F02	4D9	100E

APP FIG. 3

RELAY

DESIG		BR1			CF			DOA	RSI			PMR	8C5S			DESIG
CODE		AF88			AJ15			AK4				AK4				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	
12			M	6F1	EBM	3B/H0			M	6D1			M	6E1					12
11			B	2B7	EBM				EBM				EBM						11
10			M	6G1	EBM	6G2			EBM	3A/G0			EBM	2E1					10
9			B	2B6	EBM	2F0			EMB				EMB	2F1					9
8			BM	2E9	EMB	6H2			EMB	3A/G0			EMB	6B1					8
7			B	2B5	EBM	6D2													7
6			BM	3A/G0	EMB	1H6													6
5			B	2B4	EMB	4E7	EMB	3B/H0					EMB						5
4			M	6F1	EBM	3B/D0	EMB	3B/D0					EMB						4
3			B	2B3	EBM		EBM	3B/D0					EBM	1G8					3
2			M	3A/G0	EBM	3B/D0	EBM	2E0					EBM						2
1			B	1F6	EBM		M	a					M	6G2					1
COIL				6D3		6G3		1H4		6A3				6F3		6H3			COIL

a (F) 4H4 (G) 4H3

CAPACITOR

DESIG	LOC	CODE
P	4G3	437A

DIODE

DESIG	LOC	CODE
BC5	2C8	446F
BR1	6D1	446F
D8	1C3	446F
RT	4G5	446F
(N) RSI	6C1	446F

INDUCTOR

DESIG	LOC	CODE
L2	3A/G0	274L

RESISTOR

DESIG	LOC	CODE
D0	1G4	1BU
MC	4G4	KS 13492 L1,200
P	4G4	1BJU
T2R	3B/D0	144A,1500
T2T	3B/D0	144A,1500

DRAWING ISSUE

SUPERSEDES ISS. 4D		
5D	UJH SAM GFT	HW A
6D	EBM RJS RHP	

ISSUE 9B

DIAL CONFERENCE TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

SD-66902-01-C2

SD-66902-01-C2

CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER	TERM. DESIG
T- *	1-1/3	-48V	APP FIG. 1	
T- *	1-1/3	GRD	APP FIG. 1	

* FUSING OF UNIVERSAL TRUNK CIRCUIT ASSIGNED AS ACCESS PORT OF THE CONFERENCE CIRCUIT , SEE NOTE 301 .

BATTERY SYMBOL: -48

VOLTAGE RANGE: 45 - 52V

102.

FEATURE OR OPTION		PROVIDE APP FIG.	APP OR WRG	QUANTITY
CONFERENCE CIRCUIT		1,3	M	1 PER PBX
CORD SWITCHBOARD	REQ'D	2	R,N	1 PER PBX
	NOT REQ'D		W,Q	

103.

NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

104. RECORD OF APP FIGURES , WIRING AND APPARATUS CHANGES

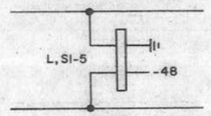
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A & M	MD	
3D	Y,Z	Z	106	Y		Z	
3D	W	W	102,106	W			
3D	APP FIG 2	NONE	102 106	APP FIG 2			
5D	APP FIG 3 Q,R,M,V	V	102 107	APP FIG 3 Q,R,M		V	
5D	S,T	T		S		T	
5D	N	NONE	102	N			
8D	RESISTOR			221A		145A	
9B	J OR K	K		J		K	
	G OR F	G		F		G	

105. THIS CONFERENCE CIRCUIT REQUIRES APPROPRIATE STRAPPING IN THE UNIVERSAL LINE AND DIAL PULSE REGISTER CIRCUITS FOR CLASS OF SERVICE OPTIONS , ETC . THE UNIVERSAL LINE STRAPPING IS ON TERMINAL STRIPS IN THE TIE TRUNK ADAPTER UNIT OF THE LINE,LINK AND MARKER CIRCUIT .

106. PROVIDE Y OPTION AND REMOVE Z OPTION IF APP FIG.2 IS PROVIDED.

107. PROVIDE M OPTION AND REMOVE V OPTION IF APP FIG.3 IS PROVIDED.

TRANSMISSION TEST REQUIREMENTS
(1000 CYCLE LOSS BETWEEN 600 OHM LINES)



MAX ALLOWABLE CKT LOSS (DB)
0.2

ALLOWABLE INDIVIDUAL APPARATUS LOSSES (db)

APPARATUS	DESIG	CODE	MAX. LOSS	MIN. LOSS	REMARKS
RELAYS	L,S1-S5 L	AJ 52 AJ 138	0.2 0.2		
INDUCTORS	L1,L2	274L	0.1		

INFORMATION NOTES:

301. THE ASSIGNMENT OF TRUNK TERMINALS TO THE UNIVERSAL LINE CIRCUITS USED FOR THIS CONFERENCE CIRCUIT IS PER CUSTOMER SPECIFICATIONS AND NEED FOLLOW NO NUMERICAL ORDER , HOWEVER , WHEN TRUNK TERMINALS ARE NOT SPECIFIED , TERMINALS 84 THROUGH 99 USED CONSECUTIVELY SHALL BE GIVEN PREFERENCE,WITH TERMINAL 84 ASSIGNED AS THE ACCESS CODE FOR THE CONFERENCE CIRCUIT AND TERMINAL 89 AS THE DIAL BACK CODE FOR A CENTRAL OFFICE TRUNK CONNECTION .

302. CHARTS A-F ON SHEETS D2 & D3 SHOW THE CONTROL AND SWITCHING ACTIONS INVOLVED IN SETTING UP A CONFERENCE.

303. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICRO FARADS,
VALUES PRECEDED BY THE SYMBOL + (PLUS) OR - (MINUS) ARE IN VOLTS.

WORKING LIMITS

MAX EXTERNAL LOOP RESISTANCE	1500
MIN INSULATION RESISTANCE	16,000

DRAWING ISSUE

1	JPF	
	KFJ	
2D	SAK	HW
	JPF	
	KFJ	
3D	FJS	H
	JRC	
	GFH	
4D	JJH	
	SAK	
	GFH	
5D	JJH	
	SAK	
	GFH	
8D		

ISSUE 9B

DIAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-D1

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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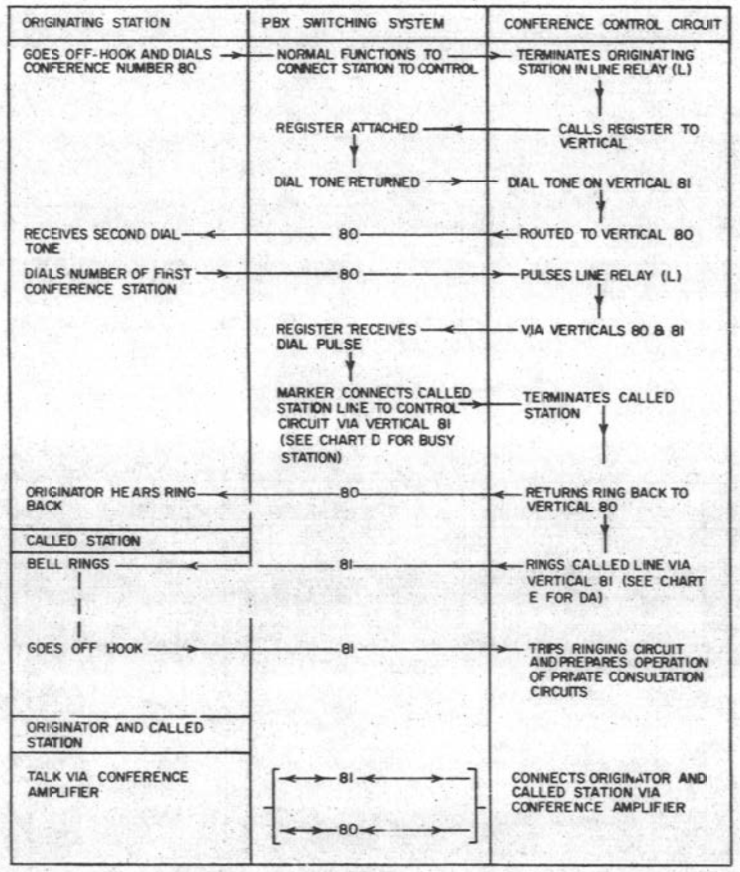
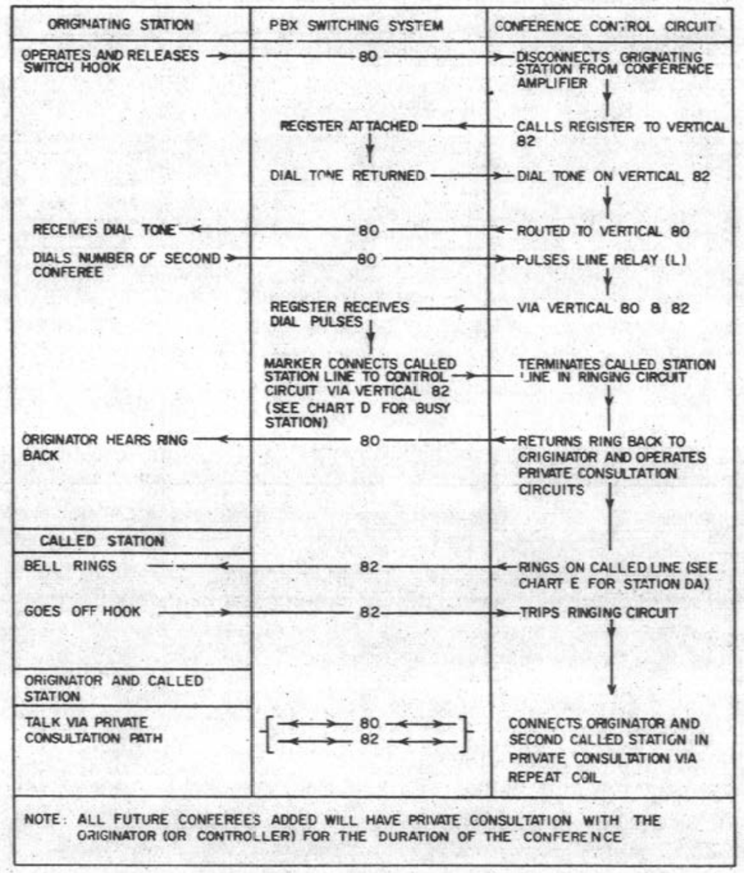
INFORMATION NOTES (CONT)
302. (CONT)

CHART A
ORIGINATING A CONFERENCE AND CALLING FIRST CONFEREE STATION



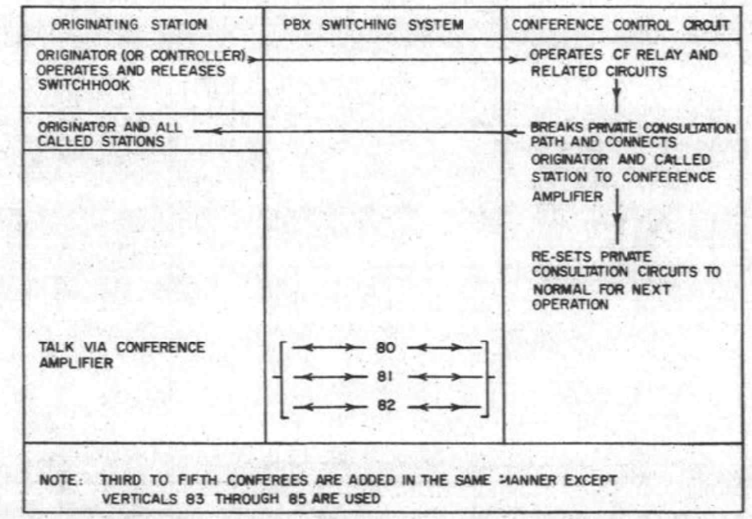
ORIGINATING STATION
PBX SWITCHING SYSTEM
CONFERENCE CONTROL CIRCUIT
GOES OFF-HOOK AND DIALS CONFERENCE NUMBER 80
NORMAL FUNCTIONS TO CONNECT STATION TO CONTROL
TERMINATES ORIGINATING STATION IN LINE RELAY (L)
REGISTER ATTACHED
CALLS REGISTER TO VERTICAL
DIAL TONE RETURNED
DIAL TONE ON VERTICAL 81
RECEIVES SECOND DIAL TONE
80
ROUTED TO VERTICAL 80
DIALS NUMBER OF FIRST CONFERENCE STATION
80
PULSES LINE RELAY (L)
REGISTER RECEIVES DIAL PULSE
VIA VERTICALS 80 & 81
MARKER CONNECTS CALLED STATION LINE TO CONTROL CIRCUIT VIA VERTICAL 81 (SEE CHART D FOR BUSY STATION)
TERMINATES CALLED STATION
ORIGINATOR HEARS RING BACK
80
RETURNS RING BACK TO VERTICAL 80
CALLED STATION
BELL RINGS
81
RINGS CALLED LINE VIA VERTICAL 81 (SEE CHART E FOR DA)
GOES OFF HOOK
81
TRIPS RINGING CIRCUIT AND PREPARES OPERATION OF PRIVATE CONSULTATION CIRCUITS
ORIGINATOR AND CALLED STATION
TALK VIA CONFERENCE AMPLIFIER
81
80
CONNECTS ORIGINATOR AND CALLED STATION VIA CONFERENCE AMPLIFIER

CHART B
ORIGINATOR CALLS SECOND CONFEREE STATION



ORIGINATING STATION
PBX SWITCHING SYSTEM
CONFERENCE CONTROL CIRCUIT
OPERATES AND RELEASES SWITCH HOOK
80
DISCONNECTS ORIGINATING STATION FROM CONFERENCE AMPLIFIER
REGISTER ATTACHED
CALLS REGISTER TO VERTICAL 82
DIAL TONE RETURNED
DIAL TONE ON VERTICAL 82
RECEIVES DIAL TONE
80
ROUTED TO VERTICAL 80
DIALS NUMBER OF SECOND CONFEREE
80
PULSES LINE RELAY (L)
REGISTER RECEIVES DIAL PULSES
VIA VERTICAL 80 & 82
MARKER CONNECTS CALLED STATION LINE TO CONTROL CIRCUIT VIA VERTICAL 82 (SEE CHART D FOR BUSY STATION)
TERMINATES CALLED STATION LINE IN RINGING CIRCUIT
ORIGINATOR HEARS RING BACK
80
RETURNS RING BACK TO ORIGINATOR AND OPERATES PRIVATE CONSULTATION CIRCUITS
CALLED STATION
BELL RINGS
82
RINGS ON CALLED LINE (SEE CHART E FOR STATION DA)
GOES OFF HOOK
82
TRIPS RINGING CIRCUIT
ORIGINATOR AND CALLED STATION
TALK VIA PRIVATE CONSULTATION PATH
80
82
CONNECTS ORIGINATOR AND SECOND CALLED STATION IN PRIVATE CONSULTATION VIA REPEAT COIL
NOTE: ALL FUTURE CONFEREES ADDED WILL HAVE PRIVATE CONSULTATION WITH THE ORIGINATOR (OR CONTROLLER) FOR THE DURATION OF THE CONFERENCE

CHART C
ORIGINATOR (OR CONTROLLER) AND CALLED PARTY JOIN CONFERENCE AFTER PRIVATE CONSULTATION



ORIGINATING STATION
PBX SWITCHING SYSTEM
CONFERENCE CONTROL CIRCUIT
ORIGINATOR (OR CONTROLLER) OPERATES AND RELEASES SWITCHHOOK
OPERATES CF RELAY AND RELATED CIRCUITS
ORIGINATOR AND ALL CALLED STATIONS
BREAKS PRIVATE CONSULTATION PATH AND CONNECTS ORIGINATOR AND CALLED STATION TO CONFERENCE AMPLIFIER
RE-SETS PRIVATE CONSULTATION CIRCUITS TO NORMAL FOR NEXT OPERATION
TALK VIA CONFERENCE AMPLIFIER
80
81
82
NOTE: THIRD TO FIFTH CONFEREES ARE ADDED IN THE SAME MANNER EXCEPT VERTICALS 83 THROUGH 85 ARE USED

5

DIAL CONFERENCE TRUNK CIRCUIT ②

BELL TELEPHONE LABORATORIES INCORPORATED 6S

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INFORMATION NOTES (CONT)
302. (CONT)

CHART D

CALLED STATION IS BUSY

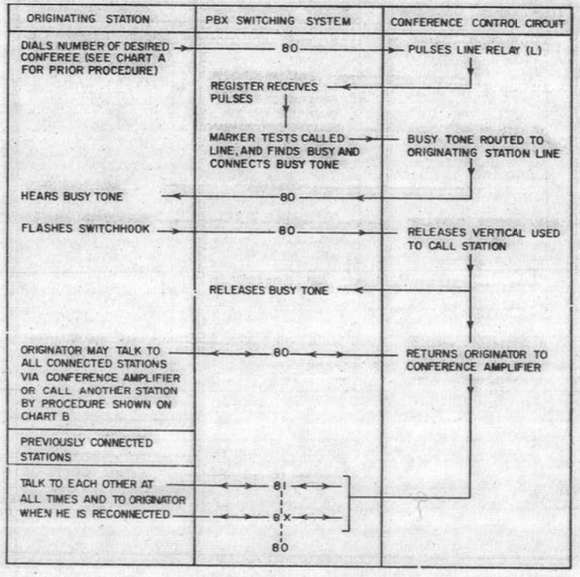


CHART E

CALLED STATION DOES NOT ANSWER

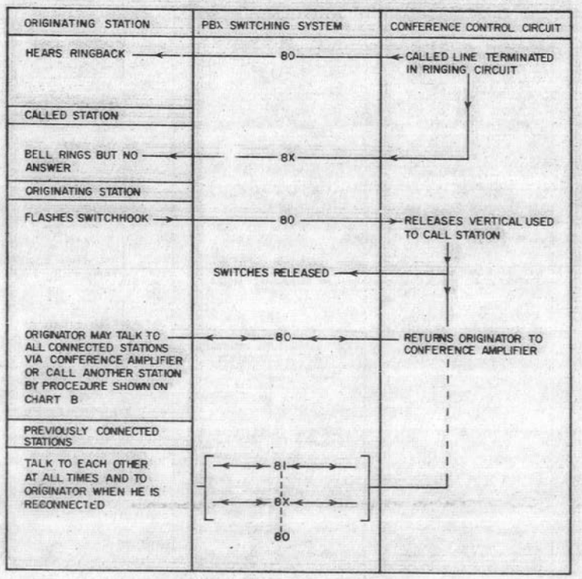
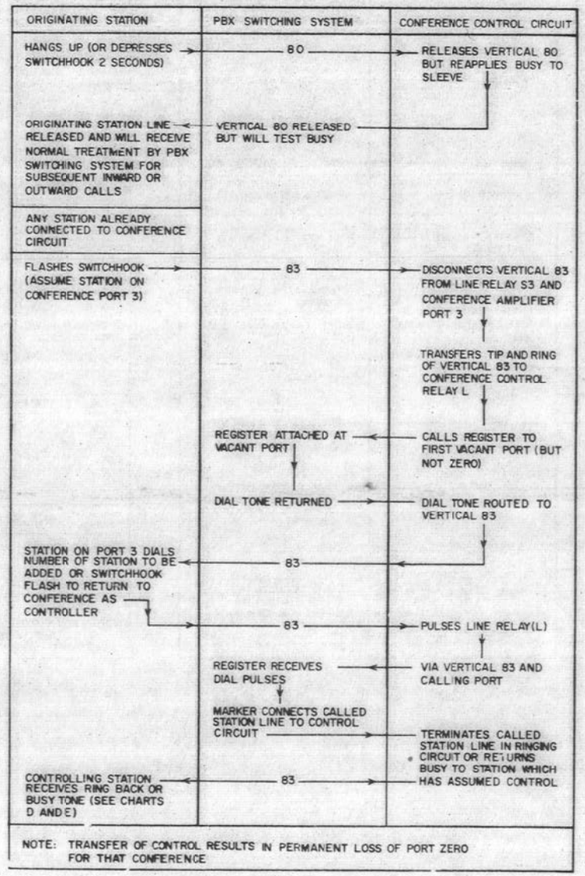


CHART F

TRANSFER OF CONTROL



NOTE: TRANSFER OF CONTROL RESULTS IN PERMANENT LOSS OF PORT ZERO FOR THAT CONFERENCE

DRAWING ISSUE

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66902-01-D3

BELL TELEPHONE LABORATORIES INCORPORATED

6S

SC 1

ORIGINATING A CONFERENCE
ANY STATION CALLS CONFERENCE NUMBER
(ASSUME NO. 80)

L
SRC
ON — ONA
CRDK
1 SEC
CRI
CRDK
1 SEC
RRL

DIAL TONE TO ORIGINATOR

ORIGINATOR DISPOSES OF DIAL TONE OR PARTIAL DIAL — SC 4

ORIGINATOR COMPLETES DIALING

STATION — SC 2 OR SC 22
TIE TRUNK — SC 18 OR SC 26
DIAL 0 — SC 6
DIAL 9 — SC 9

SC 2 (MFR DISC. SEE SC 22)

ADDING A STATION (WITHOUT CONSULTATION)
CONFERENCE CONTROLLER COMPLETES DIALING
REGISTER CALLS MARKER AND REVERSES BATTERY

P
MC
CCC (MKR) — RS
RLAA (MKR) — P
MC

RINGING CALLED STA & RINGBACK TO CONTROLLER

CALLED STA DA — SC 5

CALLED STA ANSWERS

RT
BC — RS
RV
S —
TPDK
CR — BCH
CRDK
RT — RRL — PM

CONTROLLER & CALLED STA CONNECTED VIA CONFERENCE AMPLIFIER

SC 3

CONTROLLER LEAVES CONFERENCE
TO ADD A STATION OR TRUNK.

SW HOOK
L
DI
CR — SW HOOK
CRDK — L
DI
SR
PREVENTS SRC FROM RLS IF BEFORE 175 M SEC
SRC — SRC
SO
RRL
1.3 SEC
PREVENTS ONRL FROM OPERATING
ONRL
DISCONNECT

BID FOR REGISTER DIAL TONE TO CONTROLLER

CONT DISPOSES OF DIAL TONE OR PARTIAL DIALING — SC4

CONTROLLER COMPLETES DIALING

STATION — SC2 OR SC23
TIE TRUNK — SC18 OR SC26
DIAL 0 — SC6
DIAL 9 — SC9

DRAWING ISSUE
1 — 2SB — KFJ
2D — 3RR, JFF, KFJ
3D — PJS, 2E7, GFH
5D — JJH, SAK, GFH

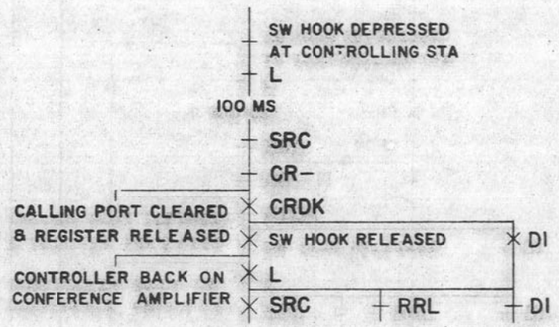
5

DIAL CONFERENCE TRUNK CIRCUIT (2)
BELL TELEPHONE LABORATORIES INCORPORATED
65
SD-66902-01-EI

SD-66902-01-EI

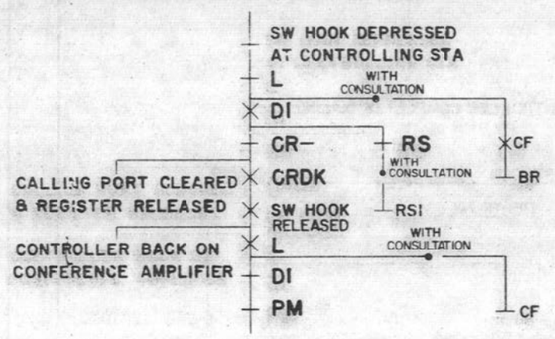
SC 4

CONTROLLER RETURNS TO CONFERENCE
AFTER DIAL TONE OR PARTIAL DIALING



SC 5

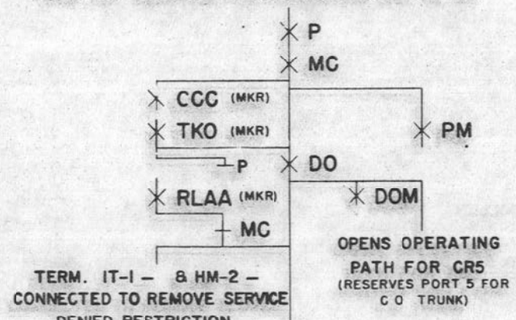
CONTROLLER RETURNS TO CONFERENCE
WHEN CALLED ST .TION OTHER THAN DIAL-
REPEATING TIE - TRUNK STATION IS BUSY OR DA
(FOR DIAL-REPEATING TIE TRUNK SEE SC 27)



SC 6 (MFR DISC)

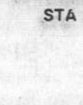
CONTROLLER AND CONSOLE ATTENDANT ADD
CO TRUNK PARTY TO CONFERENCE;
CKT NOT EQUIPPED FOR CONSULTATION
CONTROLLER HAS DIALED 0

REGISTER REVERSES BATTERY AND CALLS MARKER
(FOR CKT EQUIPPED FOR CONSULTION SEE SC 28)

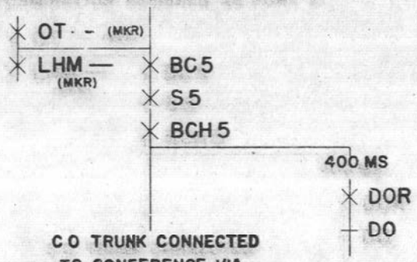


ATTENDANT ANSWERS
ATND TRUNK CALL

CONTROLLER & ATTENDANT
CONNECTED VIA ATND TRK;
CONTROLLER REQUESTS STA
REACHED VIA C O TRUNK;
CONTROLLER RELEASES & RETURNS TO CONFERENCE;
ATTENDANT CALLS DISTANT
STA VIA C O TRUNK



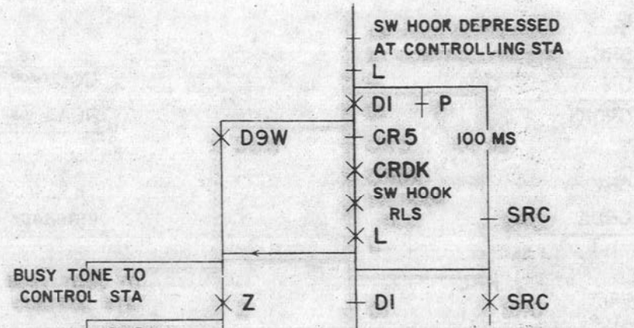
ATTENDANT RECEIVES DIAL TONE & DIALS TIE
TRUNK TERMINATION ASSIGNED AS PORT 5



C O TRUNK CONNECTED
TO CONFERENCE VIA
PORT 5 & CONFERENCE AMP

SC 7 (MFR DISC)

CONTROLLER RELEASES FROM ATTENDANT
TRUNK WITH PORTS 1-4 IN USE AND PORT 5
RESERVED FOR C O TRUNK CONNECTION



CONTROL STATION BACK ON
CONFERENCE AMPLIFIER

DIAL CONFERENCE TRUNK CIRCUIT		SD 66902-01-E2
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

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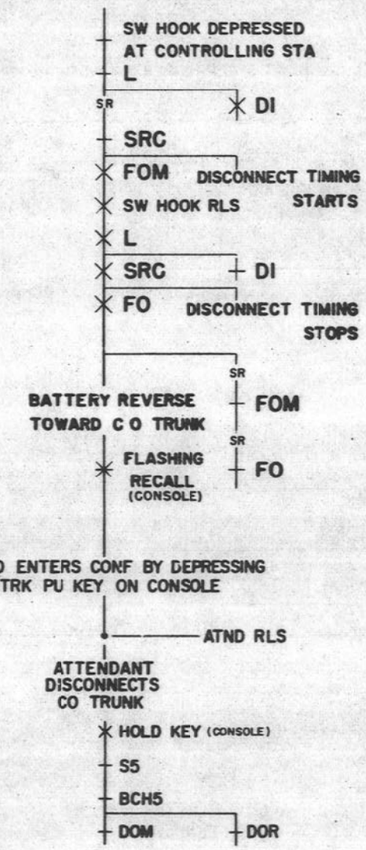
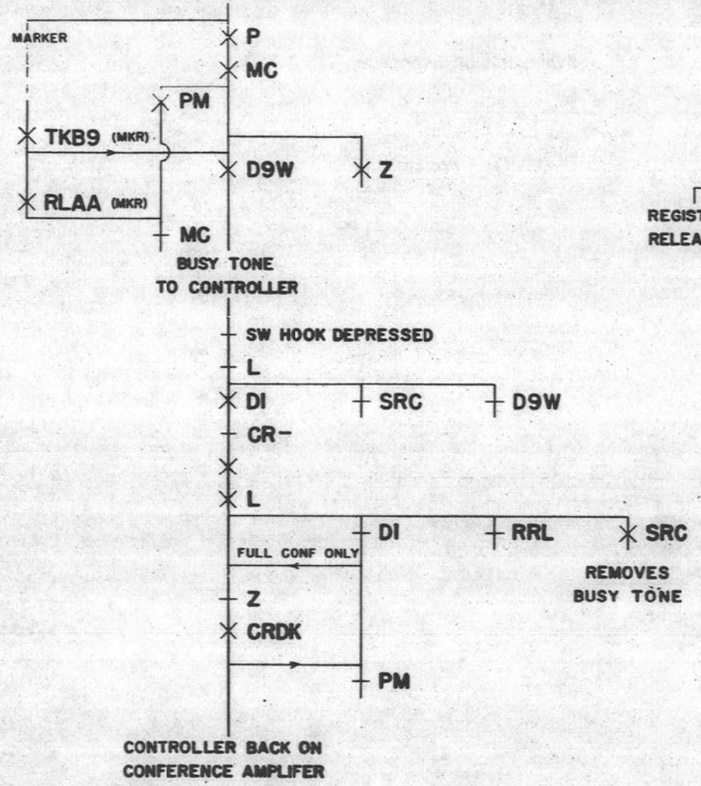
SC 8

CONTROLLER RECALLS CONSOLE ATTENDANT TO C O TRUNK WITH ALL PORTS IN USE & TRUNK ON PORT 5



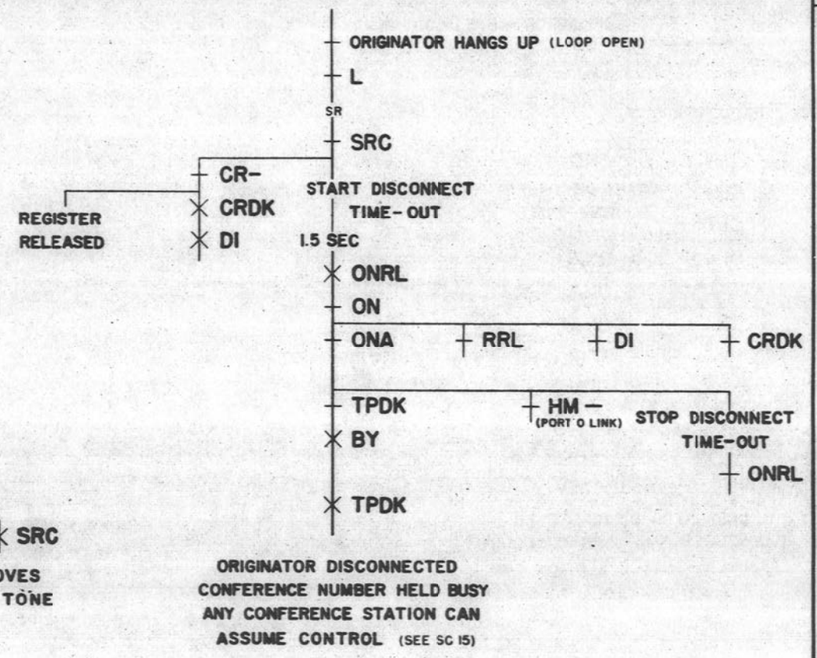
SC 9

CONTROLLER DIALS 9 OR 9__ TO GET CO TRUNK & SERVICE IS DENIED REGISTER CALLS MARKER & REVERSES BATTERY TO CALLING PORT



SC 10

ORIGINATOR DISCONNECTS WHILE REGISTER IS ATTACHED



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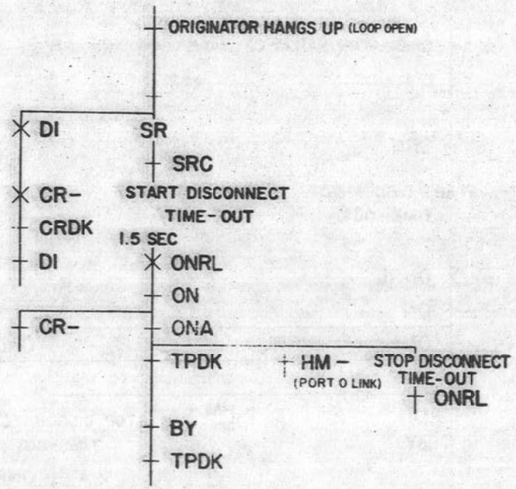
5

DIAL CONFERENCE TRUNK CIRCUIT 2

SD-66902-01-E3

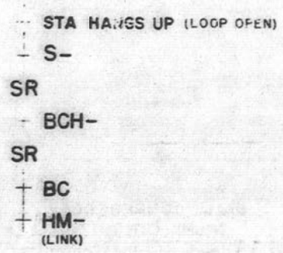
BELL TELEPHONE LABORATORIES INCORPORATED 6S

SC 11
ORIGINATOR DISCONNECTS
WHILE ON CONFERENCE AMPLIFIER

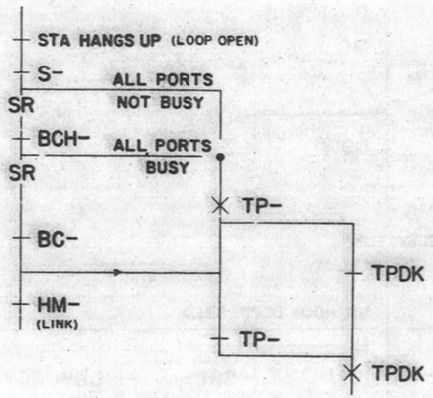


ORIGINATOR DISCONNECTED;
CONFERENCE NUMBER HELD BUSY;
ANY CONFERENCE STATION CAN
ASSUME CONTROL (SEE SC 15)

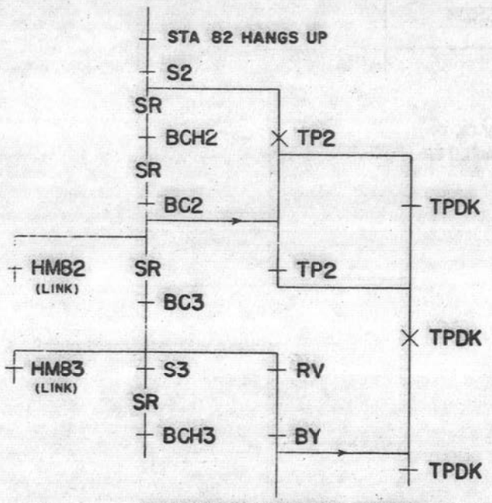
SC 12
ADDED STATION DISCONNECTS
WITH ORIGINATOR IN CONTROL;
THREE OR MORE STATIONS IN CONF



SC 13
ADDED STATION NOT IN CONTROL
DISCONNECTS WITH ORIGINATOR
DISCONNECTED; THREE OR MORE
STATIONS IN CONFERENCE

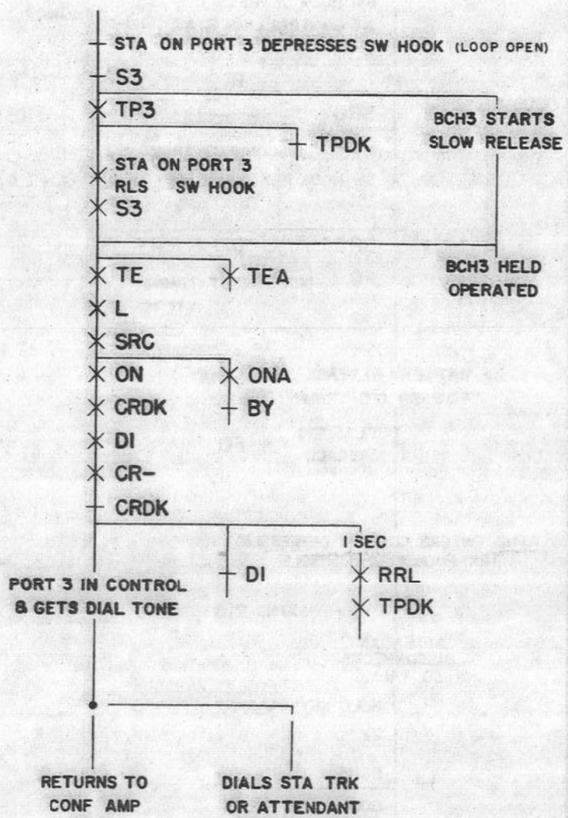


SC 14
NEXT TO LAST STATION DISCONNECTS
WITH ORIGINATOR DISCONNECTED;
ASSUME SW VERT 82 & 83 IN USE



CONFERENCE CONTROL NUMBER
FREE FOR NEXT CALL

SC 15
STATION ON PORT 3 ASSUMES CONTROL
AFTER ORIGINATOR DISCONNECTS



DRAWING ISSUE 1

51

DIAL CONFERENCE TRUNK CIRCUIT

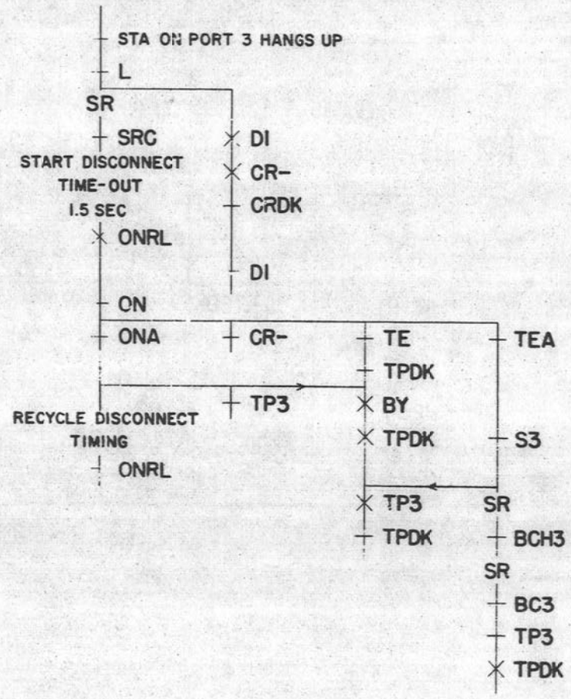
SD-66902-01-E4

BELL TELEPHONE LABORATORIES INCORPORATED

6S

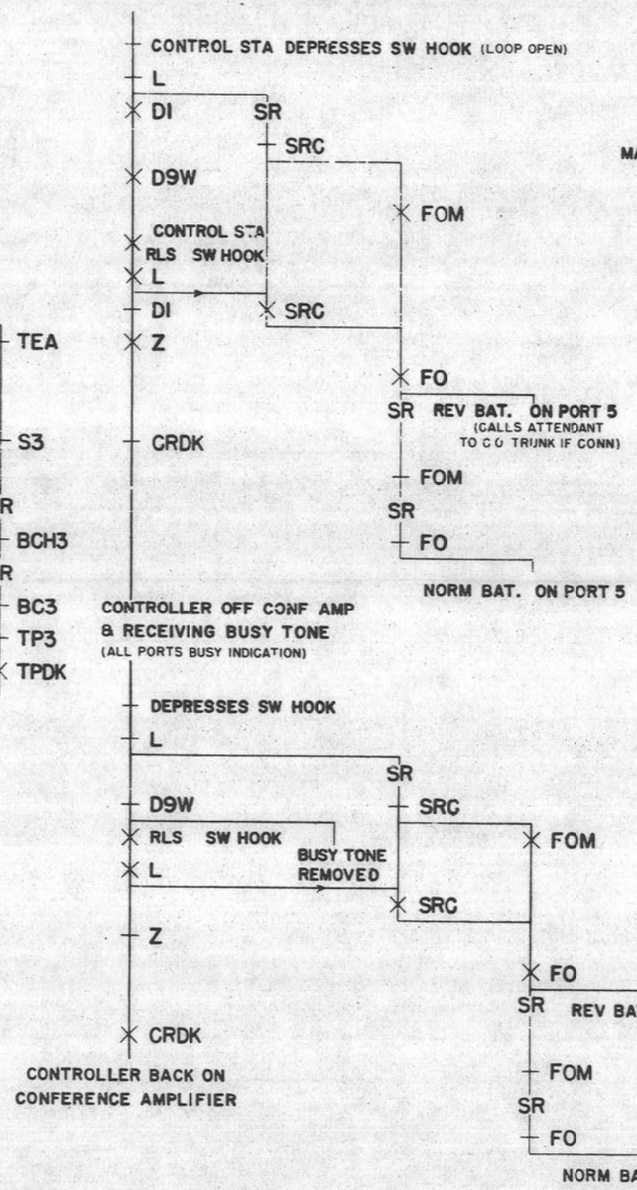
SC 16

STATION 3 DISCONNECTS AFTER TAKING CONTROL ASSUME STA ON CONF AMP & SOME PORTS NOT USED



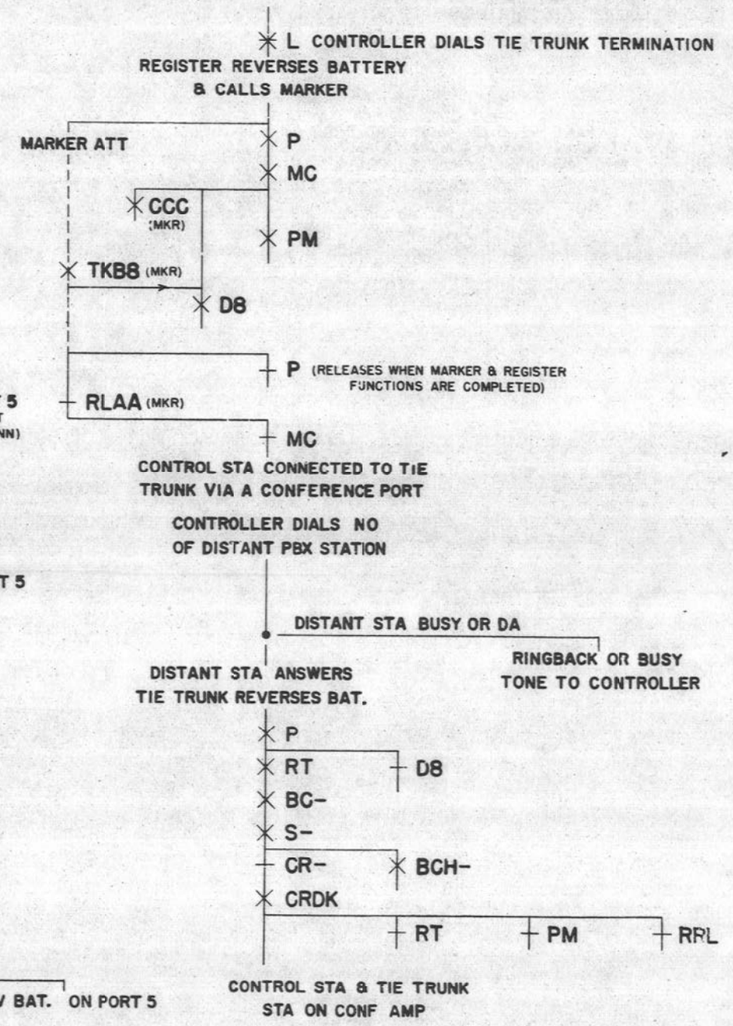
SC 17

CONTROLLER IN CONFERENCE FLASHES SWITCH HOOK WITH ALL PORTS BUSY



SC 18 (MFR DISC. SEE SC 26)

CONTROLLER ADDS DIAL REPEATING TIE TRUNK REGISTER ATTACHED (WITHOUT CONSULTATION)



DRAWING ISSUE 2D

DIAL CONFERENCE TRUNK CIRCUIT (2) SD-66902-01-ES

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5

SD-66902-01-ES

SC 19 (MFR DISC SEE SC 30)

CONNECTING PARTY INTO CONFERENCE THRU CORD SWITCHBOARD WITHOUT CONSULTATION ; PREVIOUS ACTION SHOWN IN FIRST HALF OF SC 6

ATTENDANT CALLS PARTY VIA CORD PLUGGED INTO ATTENDANT TRUNK JACK

ATTENDANT REMOVES BACK CORD FROM ATTENDANT TRUNK JACK AND PLUGS IT INTO JACK APPEARANCE OF PORT 5

CO

SO

BCH5

BC5

REMOVES VACANT PORT LOAD FROM PORT 5

GROUNDS SLEEVE OF SWITCHBOARD JACK

CONNECTS TIP AND RING THRU TO PORT 5

SC 20

CONTROLLER RECALLS ATTENDANT WITH ALL PORTS IN USE AND PORT 5 CONNECTED THRU CORD SWITCHBOARD

SW HK DEPRESSED AT CONTROLLING STA

L

DI

SR

SRC

FOM

DISCONNECT TIMING STARTS

SW HOOK RLS

L

SRC

DI

DISCONNECT TIMING STOPS

FO

F O TIMING STARTS

750 MILLISECONDS

SWBD LOOP OPENED

SR

FOM

FO

SWBD LOOP RESTORED

FLASHING RECALL (SWBD)

ATTENDANT RE-ENTERS CONFERENCE BY DEPRESSING SWBD CORD KEY

SC 21

NEXT TO LAST STATION DISCONNECTS WITH ORIGINATOR DISCONNECTED AND LAST STATION CONNECTED TO PORT 5 THRU CORD SWITCHBOARD ASSUME SW VERT 82 & 85 IN USE

STATION 82 HANGS UP

S2

CO

SR

HM 85

TP2

SR

BACK CORD LAMP LIGHTS (SWBD)

S5

BCH 2

SR

TP5

SR

BC2

BCH 5

TPDK

HM82

SR

DOM

RV

BC5

TP5

TP2

BY

CONF CKT AVAILABLE FOR NEXT CONF

DRAWING ISSUE

3D PJS FH

5D VJH SAK GFH

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

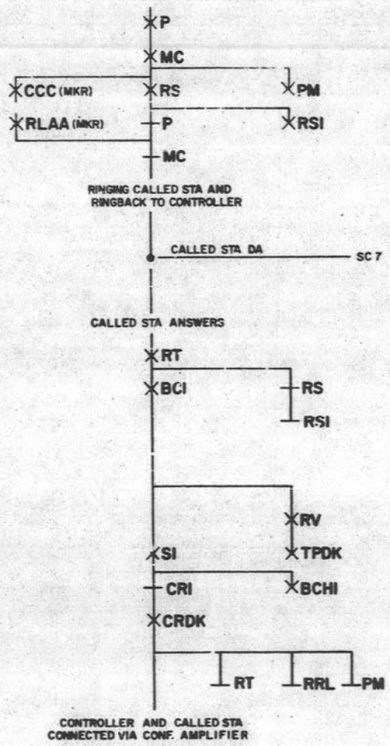
SD-66902-01-E6

BELL TELEPHONE LABORATORIES INCORPORATED

6S

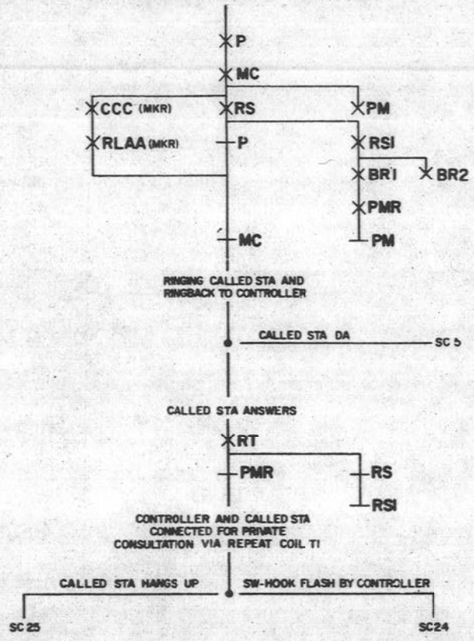
SC 22

ADDING FIRST STATION (WITH CONSULTATION)
CONFERENCE CONTROLLER COMPLETES DIALING,
REGISTER CALLS MARKER-REVERSES BATTERY



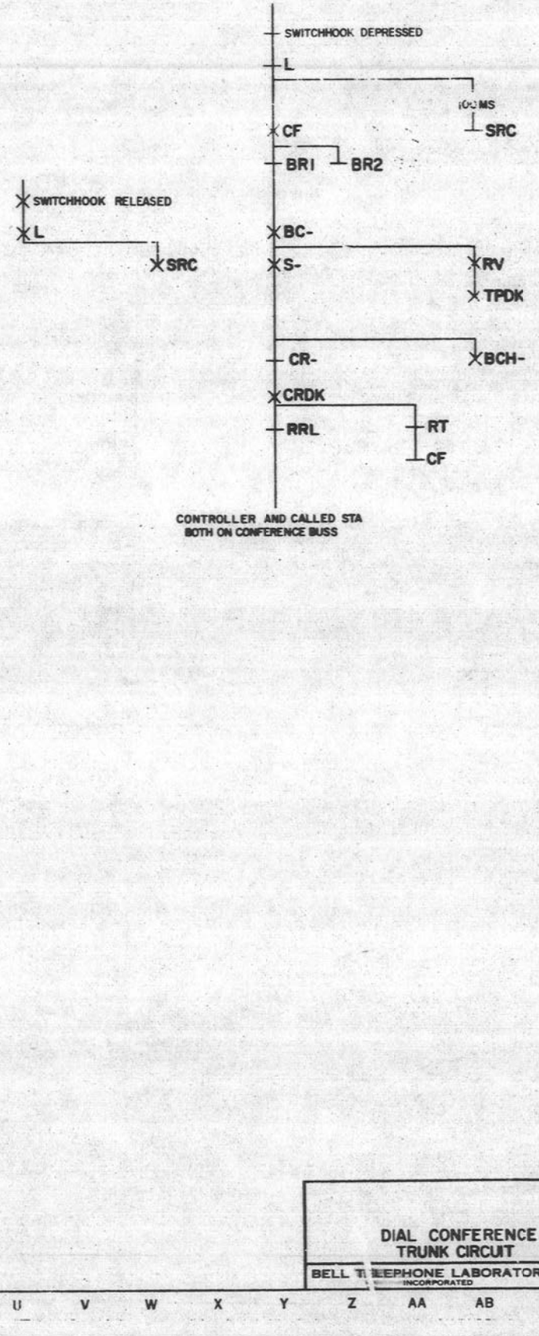
SC 23

ADDING ANY STATION AFTER THE FIRST ONE (WITH CONSULTATION)
CONFERENCE CONTROLLER COMPLETES DIALING; REGISTER CALLS MARKER
AND REVERSES BATTERY; PRIVATE CONSULTATION



SC 24

CONTROLLER AND CALLED STATION ENTER CONFERENCE (WITH CONSULTATION):
CONTROLLER FLASHES SWITCHHOOK TO REACH CONFERENCE BUSS



DRAWING ISSUE
5D LUH SAK 6FH

HW

3-10-20699-01-E

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

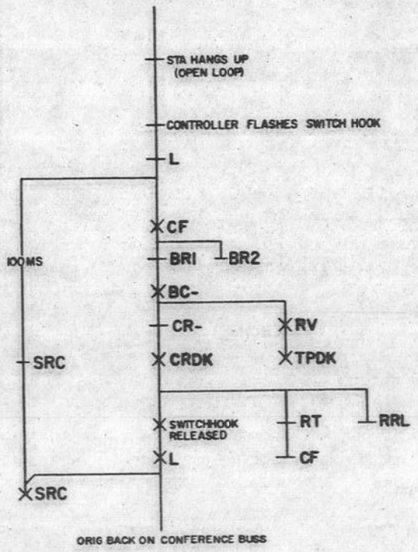
SD-66902-01-E7

BELL TELEPHONE LABORATORIES INCORPORATED

6S

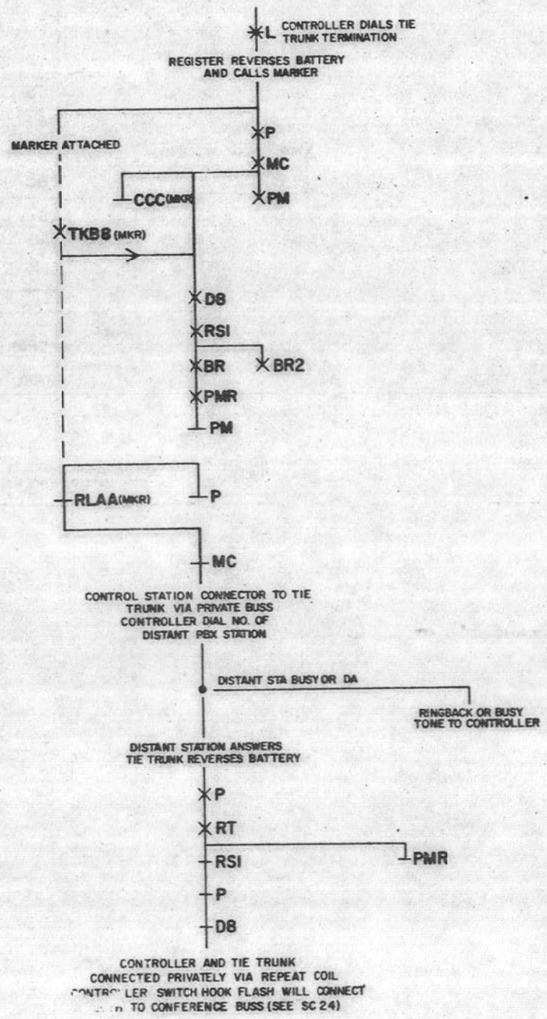
SC 25

CALLED STATION DISCONNECTS DURING CONSULTATION (WITH CONSULTATION)



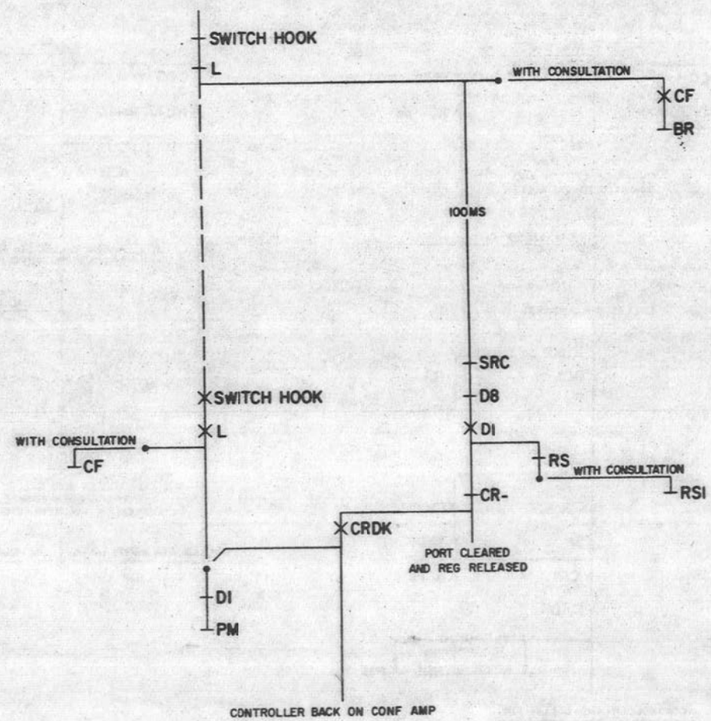
SC 26

CONTROLLER ADDS DIAL REPEATING TIE TRUNK (WITH CONSULTATION) AT LEAST ONE STATION ON CONFERENCE BUSS REGISTER ATTACHED



SC 27

CONTROLLER RETURNS TO CONF WHEN DIAL REPEATING TIE TRK IS BUSY OR DA



DRAWING ISSUE 5D UJH SAK SFH

HW

5

DIAL CONFERENCE TRUNK CIRCUIT (2) SD-66902-01-E8

BELL TELEPHONE LABORATORIES INCORPORATED 6S

SC 28

CONTROLLER CALLS ATND TO ADD CO PARTY

FROM SC 3

DIALS 0

REGISTER REVERSES BATTERY & CALLS MKR

MKR ATTACHED

P

MC

CCC (MKR)

PM

TKO( )

DOA

DO

RLAA (MKR)

P

DOM

IT-1 LEAD CONNECTED TO HM-2

MC

PORTS 1-4

PORT 5

SIGNALS ATND

D9W

CR5

ATND ANS

ATND BUSY OR DA

BUSY TONE TO CONTROLLER

CALL IS DISCONNECTED

P

CONTROLLER DISCONNECTS BEFORE ATND ATTACHES CO PARTY TO PORT 5

ATND CALLS DISTANT PARTY VIA CO TRK WHILE CONT WAITS ON ATND TRK

CONTROLLER FLASHES SWITCH HOOK

L

DI

CR-

DO

SWITCH HOOK

DOA

DOM

L

CRDK

DI

PM

CORD SWBD

CONSOLE

SC 30

SC 29

SC 29

CONSOLE ATND DIALS IN CO PARTY

FROM SC 28

HOLD KEY (CONSOLE)

DIAL TONE

DIALS TIE TRK TERMINATION ASSIGNED TO PORT 5 (ASSUME IT IS 85)

OTG 25 (MKR)

LHM 25 (MKR)

≥1 PARTY ALREADY ON CONF BUSS

NO ONE ELSE YET IN CONF

BR2

BRI

RT

RT

CR-

CR5

BC5

BC5S

RLS ATND TRK

CRI

S5

BCH5

RLS ATND TRK

DO

CRDK

DOA

PM

RT

CONTROLLER ON CONSULTATION BUSS WITH ATND VIA CO TRK

ATND RLS

CONTROLLER AND CO PARTY ON CONSULT BUSS

CONTROLLER FLASHES

SC 31

CONTROLLER ON CONF BRIDGE WITH ATND VIA CO TRK

ATND RLS

CONTROLLER AND CO PARTY ON CONFERENCE BUSS ALONE

DRAWING ISSUE

SD 66902-01 JJH SAK 8FH HW

5

DIAL CONFERENCE TRUNK CIRCUIT (2)

SD-66902-01-E9

BELL TELEPHONE LABORATORIES INCORPORATED

65

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SD-66902-01-E9

SC 30

CORD SWBD ATND PLUGS CO PARTY INTO PORT 5

FROM SC 28

ATND REACHES DISTANT PARTY OVER CO TRUNK AND CONNECTS PARTY IN BY PLUGGING INTO STATION CONTROLLED CONFERENCE JACK APPEARANCE

MONA (MKR) — DO — CO — LHM 25 (MKR)

≥ PARTY ALREADY ON CONFERENCE BRIDGE

RSI — RT — BRI — CR5 — BR2 — CR-

RLS ATND TRK

CONTROLLER ON CONSULTATION BUSS WITH ATND VIA CO TRK

ATND RLS

CONTROLLER AND CO PARTY ALONE ON CONSULT BUSS

CO PARTY DISCONNECTS — SC 32

CONTROLLER FLASHES TO INCLUDE BOTH IN CONF — SC 31

NO ONE ELSE YET IN CONFERENCE

RSI — RT — BC5 — BC5S — RSI — CRI — S5 — BCH5 — DO — DOA

RLS ATND TRK

CRDK — PM — RT

CONTROLLER ON CONFERENCE BUSS WITH ATND VIA CO TRUNK

ATND RLS

CONTROLLER & CO TRUNK PARTY ALONE ON CONFERENCE BUSS

SC 31

CONTROLLER FLASHES TO INCLUDE BOTH CONTROLLER AND CO PARTY IN CONFERENCE

FROM SC 29 OR SC 30

SWITCH HOOK — L — CF — BRI — DI — CR5 — BC5 — BC5S — WITH CORD SWBD — RSI — S5 — BCH5 — DO — DOA — CRDK — PM — RT — CF

100 MS — SWITCH HOOK — L

CONTROLLER AND CO PARTY BOTH IN CONF

DRAWING ISSUE

5	LJH SAK GFH

5

DIAL CONFERENCE TRUNK CIRCUIT

SD-66902-01-E10

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

SC 32

CO PARTY CONNECTED THRU CORD SWBD
DISCONNECTS WHILE ON CONSULT BUSS

FROM SC 30

CO TIME-OUT

FLASHING RECALL
TO ATND

ATND PULLS DOWN CORD
FROM CONF CKT JACK APPEARANCE

CC

CR5

CONTROLLER ALONE ON CONSULT BUSS

SC 33

CO PARTY CONNECTED THRU CORD SWBD
DISCONNECTS WHILE ON CONFERENCE

CO TIME-OUT

FLASHING RECALL
TO ATND

ATND PULLS DOWN CORD
FROM CONF CKT JACK APPEARANCE

CO

S5

SR

BCH5

SR

BC5

BC5S

PORT 5 FREE

SC 34

ORIGINATOR DISCONNECTS WHILE ON
CONSULT BUSS WITH ANOTHER STATION

SWITCH HOOK

L

CF

BRI — BR2

BC-

RV

S- — TPDK

CR- — BCH-

CRDK

DI — CR- — CRDK — DI

RT — RRL — CF

CALLED STATION
IN CONFERENCE

100 MS

SRC

STARTS
DISCONNECT
TIMING

1.5 SEC

ONRL

ON

ONA — CR-

HM- (PORT 0 LINK)

STOPS
DISCONNECT
TIMING
ONRL

TPDK

BY

TPDK

ORIGINATOR DISCONNECTED;
CONFERENCE NUMBER HELD BUSY;
ANY CONFERENCE STATION CAN
ASSUME CONTROL (SEE SC 15)

DRAWING ISSUE

HW

5

DIAL CONFERENCE
TRUNK CIRCUIT

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CIRCUIT REQUIREMENTS

NO. 756 DIAL CONFERENCE TRUNK CIRCUIT

DRAWING ISSUE: SUPERSEDES ISS 4D — 5D — WJH SAK GFH

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	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	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
RELAYS																	
BC1-4	AG20		1	262B					U(BC1-4)	G			0	20	10.7	10.2	
							(RV)NO						H	20	2.0	1.9	
													R	20	1.0	1.1	
BC5	AG20		1	262B					U(BC5)	G			0	20	11.2	10.2	
							11(BC5)						H	20	2.1	1.9	
													R	20	1.0	1.1	
BC5S	1/2AK4			202					1U(BC5S)	G			0		11.9	11.3	MOUNTED WITH PMR
BCH1-5	AG24		1	188					U(BCH1-5)	G			0	36	13.7	13	BLK FOR BCH5 ONLY
							(RV)NO		U(BCH1-5)	G			H	36	1.6	1.5	
									U(BCH1-5)	G			R	36	0.7	1.0	
BR1	AF88	3	3				(CF)O		U(BR)	G			0		44.5	42.5	
BR2	1/2AK4	M	1	202					1L(BR2)	G			0		62.5	59.5	MOUNTED WITH ONRL
BY	1/2AK4		1	202			1,4(BY)		1L(BY)	G			0		12.4	11.3	MOUNTED WITH ONA
CF	AJ15	3	3	249					1L(CF)	G			0		42.5	40.5	
CO	AJ5	2	2	220				1L(CO)	1U(CO)				0		53.2	12.6	
CR1	1/2AK4		1	202					1L(CR1)	G			0		11.9	11.3	MOUNTED WITH CR2
CR2	1/2AK4		1	202					1U(CR2)	G			0		11.9	11.3	MOUNTED WITH CR1
CR3	1/2AK4		1	202					1L(CR3)	G			0		11.9	11.3	MOUNTED WITH CR4
CR4	1/2AK4		1	202					1U(CR4)	G			0		11.9	11.3	MOUNTED WITH CR3
CR5	1/2AK4		1	202			3(CR5)		1L(CR5)	G			0		12.4	11.3	MOUNTED WITH CRDK
CRDK	1/2AK4		1	202					1U(CRDK)	G			0		11.9	11.3	MOUNTED WITH CR5
DO	AJ15	Y	1	249					1U(DO)	G			0		59	56.5	
DO	AF98	Z	1	245			(DOM)NO		U(DO)	G			0		14.8	14.1	
DOA	1/2AK4	3	3	202					1U(DO)	G			0		56	53	
DOM	1/2AK8		1	204					1U(DOM)	G			0		9.1	8.7	MOUNTED WITH Z
									1U(DOM)	G			R		1.7	1.8	
DOR	1/2AK4	Y	1	202					1L(DOR)	G			0		11.9	11.3	MOUNTED WITH ONRL
D1	1/2AK30		1	202					1L(D1)	G			0		23	22	MOUNTED WITH D9W
D8	1/2AK4		1	202					1U(D8)	G			0		11.9	11.3	MOUNTED WITH TPDK
D9W	1/2AK30		1	202					1U(D9W)	G			0		23	22	MOUNTED WITH D1
FO	AG44		1	281B					1U(FO)	G		P	0	46	23.6	21.5	REQT APPLY WITH SEC
							3,5(FO)		1U(FO)	G		P	H	46	4.2	3.3	WINDING SHORT
									1U(FO)	G		P	R	46	2.2	2.4	CIRCUITED
									1U(FO)	G		S	0		7.1	65	
FOM	1/2AK37		1	201					1L(FOM)	G	2		0	35	23	22	MOUNTED WITH RRL
									1L(FOM)	G	2		H	35	2.6	2.5	
L	AJ52	V	1	303			(SRC)NO	1L(L)	2U(L)	M		P/S	0		13.2	12.6	
	AJ138	M	1	568				1L(L)	2U(L)	M		P/S	R		3.1	3.3	
MC	AJ15		1	249			2(MC) (PM)NO		U(MC)	G			0		42.5	40.5	

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DIAL CONFERENCE TRUNK CIRCUIT — SD-66902-01-FI

BELL TELEPHONE LABORATORIES INCORPORATED

CIRCUIT REQUIREMENTS

DRAWING ISSUE: SUPERSEDES ISS 4D — 5 — WJH SAK GFH

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT.	APPARATUS FIG.	MECH REQT BSP FIG.	MECH REQT CONT PRES	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	TEST FOR	AFTER SOAK MA	TEST MA	READJ MA	REMARKS
ON	AF83		1	8			(ONA) (BY) (CRDK) (ONRL) O		U(ON)	G			0		8.1	7.3	
ONA	1/2AK4		1	202			9,12(ONA)		1U(ONA)	G			C		12.4	11.3	MOUNTED WITH BY
ONRL	1/2AK4		1	202					1U(ONRL)	G	1		0		11.9	11.3	MOUNTED WITH DOR
P	1/2AK30		1	202			(MC)NO	1L(P)	2L(P)	B/G			0		23	22	MOUNTED WITH RS
PM	1/2AK4		1	202					1U(PM)	G			0		11.9	11.3	MOUNTED WITH RV
PMR	1/2AK4	3	3	202					1L(PMR)	G			0		11.9	11.3	MOUNTED WITH BC5S
RRL	1/2AK37		1	201					1U(RRL)	G			0		14.1	13.5	MOUNTED WITH FOM
RS	1/2AK30		1	202					1U(RS)	G			0		23	22	MOUNTED WITH P
RSI	1/2AK4	3	3	202					1U(RSI)	G			0		11.9	11.3	MOUNTED WITH DOA
RT	AJ58		1	306					1U(RT)	G			P	0	28	26.5	EM CONTACTS ONLY
									1U(RT)	G			P	0	29.5	28	NEED MAKE
									1U(RT)	G			P	NO	20	21.5	
									2U(RT)	G			S	0	19	18	
RV	1/2AK4		1	202			(L)NO (BY)NO		1L(RV)	G			0		11.9	11.3	MOUNTED WITH PM
S1-5	AJ52		1	303			(BCH1-5)NO	1L(S1-5)	2U(S1-5)	M			P/S	0	13.2	12.6	BLK ONLY NUMERICAL
								1L(S1-5)	2U(S1-5)	M			P/S	R	3.1	3.3	EQUIVALENT OF RELAY UNDER TEST
SRC	AG44		1	281B					1U(SRC)	G			P	0	23	21.5	
							(ON)NO (ONA)NO		1U(SRC)	G			P	H	4.0	3.8	REQT APPLY WITH SEC
									1U(SRC)	G			P	R	2.1	2.4	WINDING SHORT
									1U(SRC)	G			S	0	70	65	CIRCUITED
TE	AJ5		1	220			(TEA)NO		U(TE)	G			0		13.2	12.6	
TEA	1/2AK4		1	202			(TE)NO		1U(TEA)	G			0		11.9	11.3	MOUNTED WITH TP5
TP1	1/2AK4		1	202					1L(TP1)	G			0		11.9	11.3	MOUNTED WITH T.2
TP2	1/2AK4		1	202					1U(TP2)	G			0		11.9	11.3	MOUNTED WITH TP1
TP3	1/2AK4		1	202					1L(TP3)	G			0		11.9	11.3	MOUNTED WITH TP4
TP4	1/2AK4		1	202					1U(TP4)	G			0		11.9	11.3	MOUNTED WITH TP3
TP5	1/2AK4		1	202					1L(TP5)	G			0		11.9	11.3	MOUNTED WITH TEA
TPDK	1/2AK4		1	202					1L(TPDK)	G			0		11.9	11.3	MOUNTED WITH D8
Z	1/2AK8		1	204					1L(Z)	G			0		17	16	MOUNTED WITH DOM

SHEET NOTES:

1. REMOVE THE RELAY DELAY TIMER ED-66715 OR ED-95556 OR ED99555 FROM CONNECTOR "RD" BEFORE TEST.
2. REMOVE THE RELAY DELAY TIMER ED-99555 FROM CONNECTOR "RD" BEFORE TEST.

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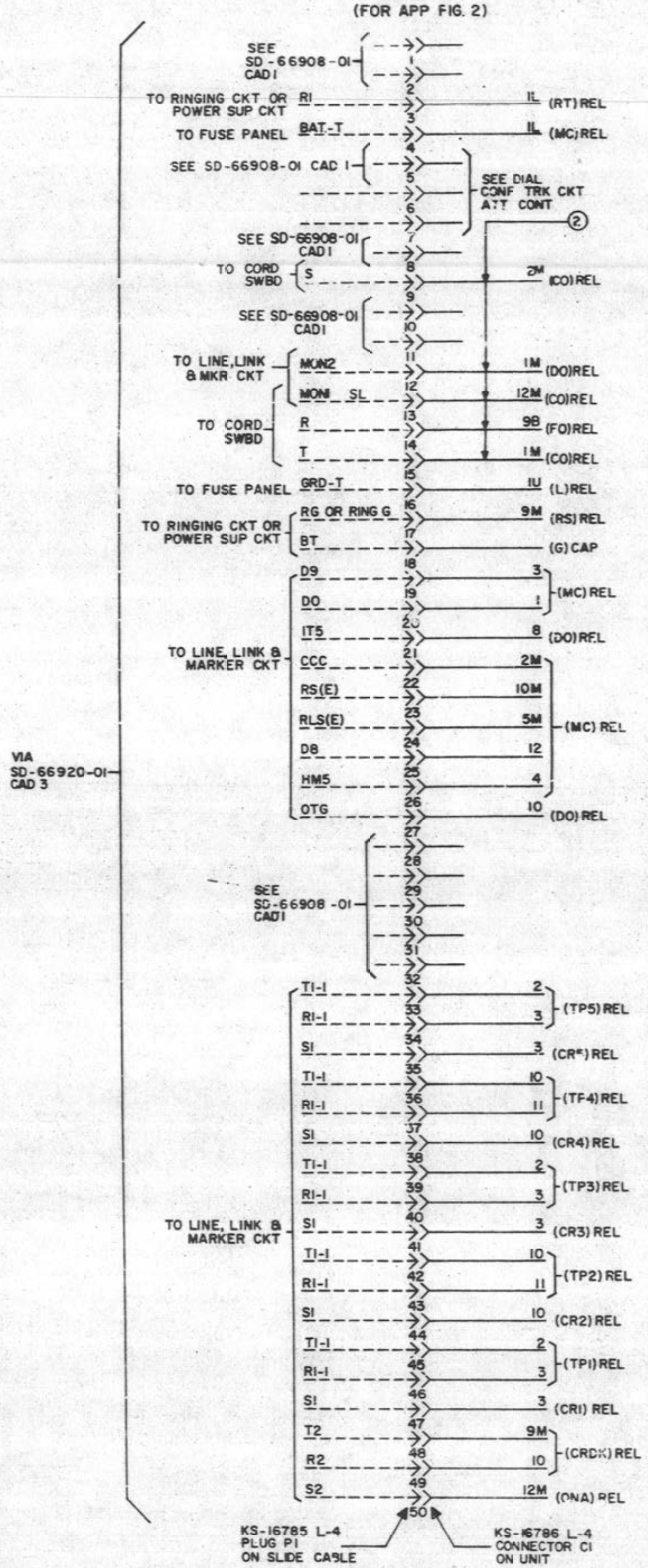
DIAL CONFERENCE TRUNK CIRCUIT (2) — SD-66902-01-FI

BELL TELEPHONE LABORATORIES INCORPORATED — 6S

CAD I

(FOR APP FIG. 2)



ISSUE	
SUPERSEDES ISS 1	
2D	
3D	PJS
4D	JJH SAK GFH
6D	BMA PJS RHP

A HW

SD-66902-01-G1

DIAL CONFERENCE TRUNK CIRCUIT ②

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