

SHEET INDEX

[illegible][illegible]

SHEET INDEX NOTES		SUPPORTING INFORMATION	
		CATEGORY	NO.
1. WHEN CHANGES ARE MADE IN THIS DRAWING. ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.		EQUIPMENT INFORMATION	J33030AF - ()
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.		KEYSHEETS NO. 1 355A 350A 35E97	SD-31359-01 SD-31780-01 SD-31364-01 SD-32325-01
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.			

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

ISSUE
5B

STEP BY STEP SYSTEMS
NO.1, 35(A, 35A, 35-E-97
INFORMATION TRUNK CIRCUIT
LOOP OR E&M
LEAD SIGNALING
FOR LOCAL DIRECTORY ASSISTANCE
(411)

1099

A7 & TC
STANDARD

SD-35036-01-A!

17 SHEETS

(INFO TRK

BELL TELEPHONE LABORATORIES
INCORPORATED

65

PRINTED IN U. S. A.

APPARATUS INDEX

EQPT LOC	APP FIG.	
	NO.	SH NO.
CIRCUIT PACKS		
DET	1	C1
TM	3	C2

DESIG	LOCATION		
	FS	APP FIG	EQPT
RELAYS (CONT)			
LC	IC1, 2C2	3	
LCI	3E5	3	
MB	3D2	3	
PI	3D4	3	
RV1 RV2	3D5 3B1	3 3	
TM	3B6	3	

DESIG	LOCATION		
	FS	APP FIG	EQPT
CAPACITORS			
A	1B4, 2C6	1, 2	CA2, CA3
AI	1G4, 2G4	3	CA1
B	1B5	1	CA2
C	1B8, 2B7	1, 2	CA2, CA3
D	3D6	3	
TM	3B4	3	CA1

DIODES			
A	1B3, 2C5	1, 2	CA2, CA3
A2	3F5	3	
B BI	3C0 3C2	3 3	CA1 CA1
M	2E7	2	CA3

DESIG	LOCATION		
	FS	APP FIG.	EQPT
JACKS			
T	} SEE APP FIG.	1,2	
TT		I	

LAMPS		
A	3F2	3
M	2E6	2

RESISTORS			
A	1B3, 2B5	1, 2	CA2, CA3
B	1B8, 2C7	1, 2	CA2 CA3
C	3C7	3	CA1
D	1B2	1	CA2
IDC	3E1	3	
M	2E7	2	CA3
MB	3D1	3	
TM	3B3	3	CA1

DESIG	LOCATION		
	FS	APP FIG.	EQPT
REPEAT COIL			
A	1B5	I	

DESIG	LOCATION		
	FS	APP FIG.	EQPT
RELAYS			
A	1B3, 2C5	1, 2	
AI	1F4, 2F5	3	
A2	3F5	3	
B	3C1	3	
BI	3C2	3	
ID	3E2	3	
IDC	3E2	3	

SD-35036-01-A2

INFORMATION TRUNK CIRCUIT

②

SD-35036-01-A2

BELL TELEPHONE LABORATORIES
INCORPORATED

65

PRINTED IN U. S. A.

SD-35036-01-A3

A
B
C
D
E
F
G
H

LEAD INDEX

DESIG	LOCATION	
	FS	CAD
ACCESS CIRCUIT		
CO	3E0	1D1
CT	3E0	1D1
R	1A2, 2B2	1C1
RI	1A7, 2B6	1D1
S	1A1, 2B1	1C1
ST	3F0	1E1
T	1A1, 2B2	1C1
TI	1A7, 2B6	1C1

LOCAL SELECTOR BANK MULTIPLE CKT		
R OR -	1C0, 2C0	1A1, 1B5, 2B4
S OR C	1D0, 2D0	1A1, 1B5, 2B4
T OR +	1A0, 2B0	1A1, 1A5, 2B4

POWER RINGING CIRCUIT OR MISC ALARM CIRCUIT		
120 IPM BUSY	1H4, 2H4	1G1
120 IPM LT	1H4, 2H4	1G1
BT2 120 IPM	1H4, 2H4	1G1
LT1 120 IPM BR2	1H4, 2H4	1F1
LT1 120 IPM TB	1H4, 2H4	1F1

ROTARY OUT TRK SWITCH CKT		
R OR -	1C0, 1F0, 2C0, 2F0	2C4
S OR C	1D0, 1F0, 2D0, 2E0	2D4
T OR +	1A0, 1E0, 2B0, 2E0	2C4

DESIG	LOCATION	
	FS	CAD
TANDEM SELECTOR BANK MULTIPLE CKT		
R OR -	1F0, 2F0	1B1
S OR C	1F0, 2E0	1B1
T OR +	1E0, 2E0	1B1

TRAFFIC REGISTER CKT OR MISC ALARM CKT (REGISTER)		
LTB	1G0, 2F0	1B1, 2E1

TRANSMISSION AND SIGNALING FACILITIES TYPE 1		
E	2F7	1E5, 1F1
M	2E7	1F1, 1F5

TRANSMISSION FACILITIES		
A	2B8	1E1, 1E5
B	2C8	1E5, 1F1
R OR -	1C9, 2C8	1D5, 2B1
T OR +	1A9, 2B8	1D5, 2B1

DESIG	LOCATION	
	FS	CAD
MANUAL OUTGOING TRUNK TEST CKT		
CTA	3F0	1B1

DESIG	LOCATION	
	FS	CAD
PORTABLE DIRECTORY ASSISTANCE TEST CKT		
CTA	3F0	1B1

TOTALIZER CIRCUIT		
TT-	3G7	1A1, 2E6
TU-	3G7	1A1

TRAFFIC USAGE RECORDER CIRCUIT		
TT-	3G7	1A1
TU-	3G7	1A1

APP OR WRG	RATED ON ISSUE	REF NOTES	LOCATION
Z			APP FIG. 1
Y			APP FIG. 1
X			3C4, F1
W			3G6

A
B
C
D
E
F
G
H

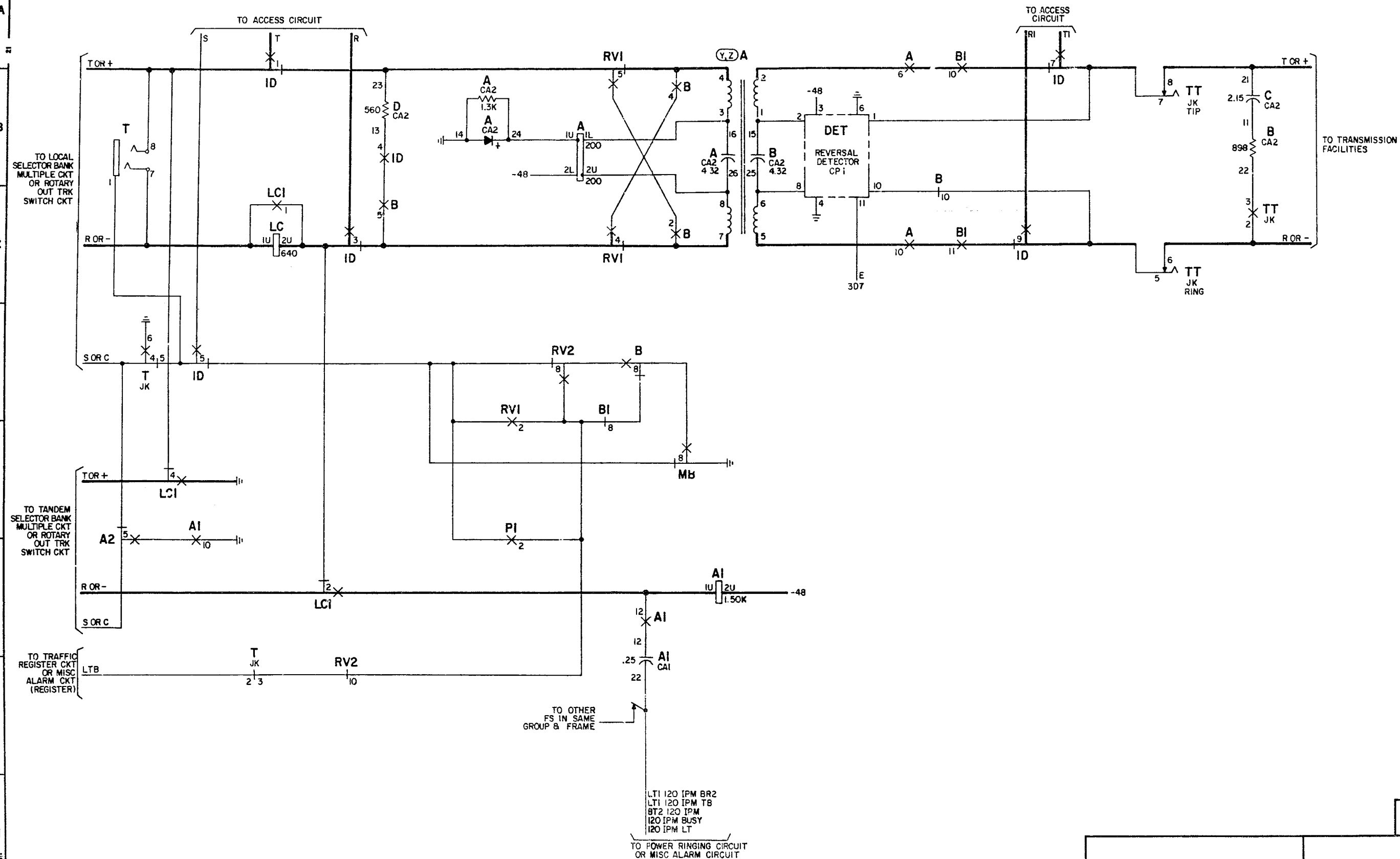
ISSUE
5B

INFORMATION TRUNK CIRCUIT		②	SD-35036-01-A3
BELL TELEPHONE LABORATORIES INCORPORATED			
		Doc # 6S	PRINTED IN U.S.A.

6S

PRINTED IN U. S. A.

FS I
LOOP SIGNALING



②

SD-35036-01-B1

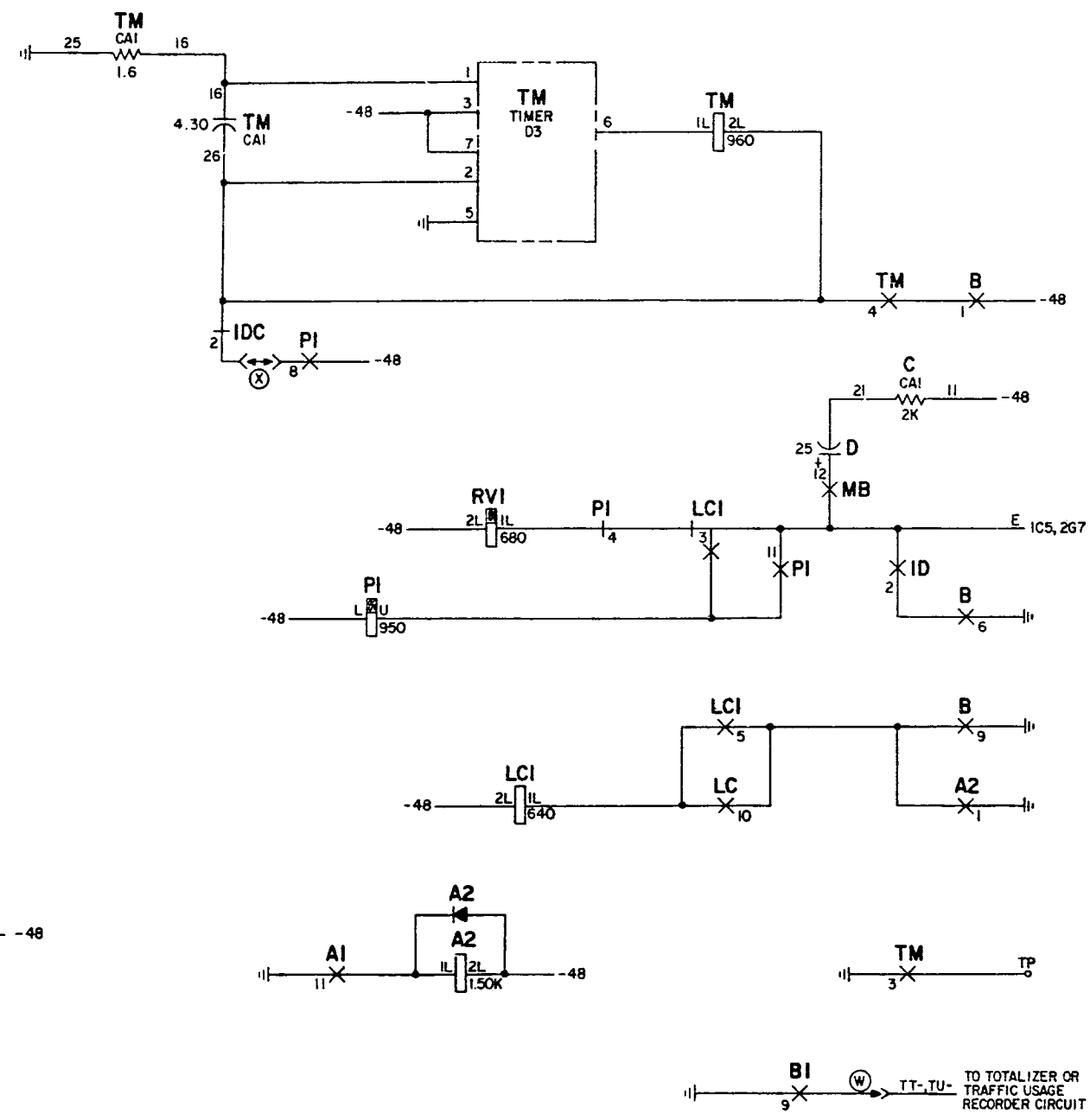
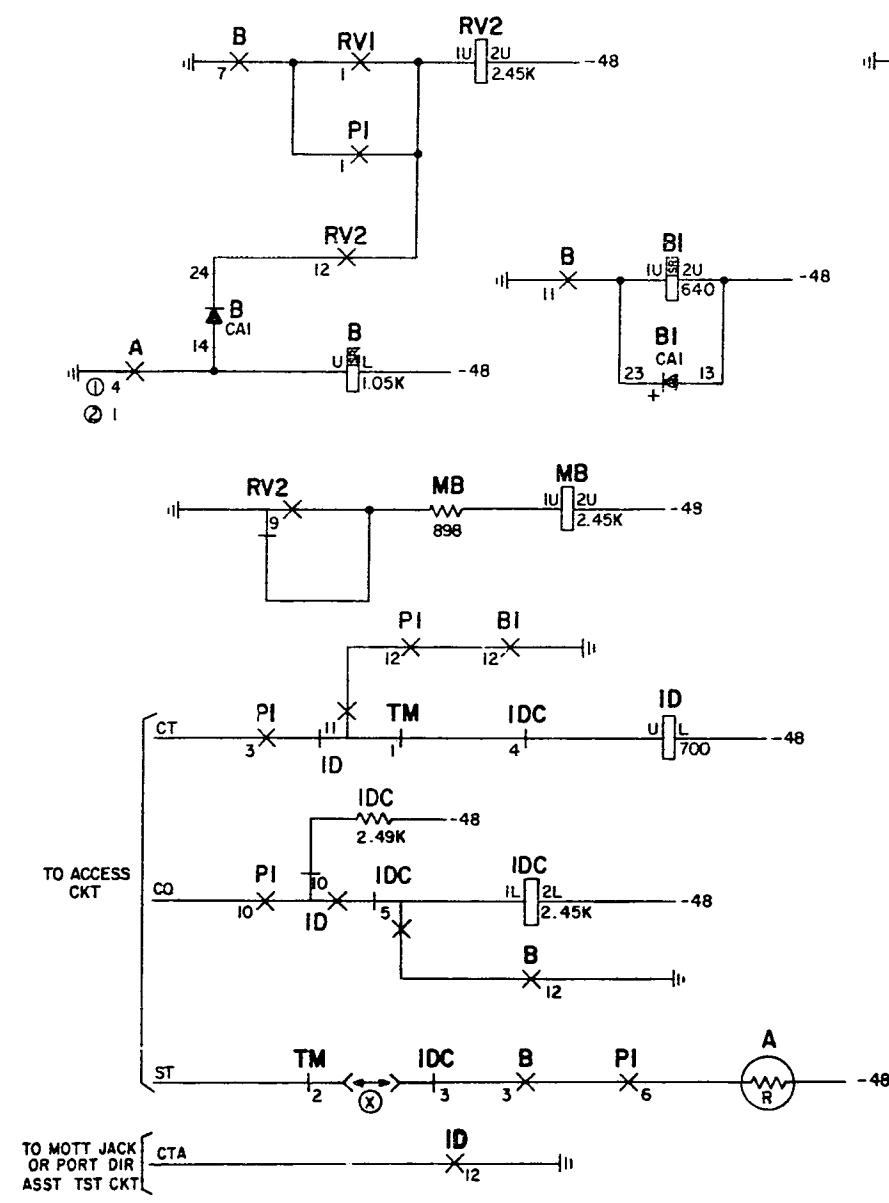
BELL TELEPHONE LABORATORIES
INCORPORATED

69

69

PRINTED IN U. S. A.

FS 3 CONTROL RELAYS



SD-35036-01-B3

INFORMATION TRUNK CIRCUIT		2	SD-35036-01-B3
BELL TELEPHONE LABORATORIES INCORPORATED		65	PRINTED IN U.S.A.

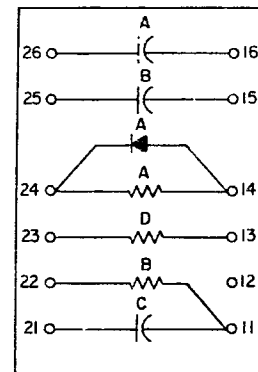
APP FIG. 1

CIRCUIT PACK

DESIG	LOC	CODE
DET (CPI)	1B5	ED-35017-() (REV DET)

RELAY

DESIG A										DESIG	
CODE AJ140										CODE	
OPTION										OPTION	
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC		
ARR		ARR		ARR		ARR		ARR			
12										12	
11										11	
10	M	IC6								10	
9										9	
8	M									8	
7										7	
6	M	1A6								6	
5										5	
4	M	3CO								4	
3										3	
2										2	
1										1	
COIL		1B3								COIL	

COMPONENT ASSEMBLY
278A TS E/WDESIG
CA2

CAPACITORS

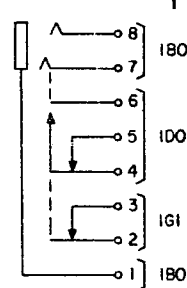
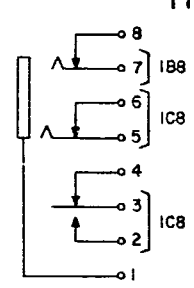
DESIG	LOC	CODE
A	1B4	535GH
B	1B5	
C	1B8	535FW

DIODE

DESIG	LOC	CODE
A	1B3	446F

RESISTORS

DESIG	LOC	CODE
A	1B3	KS-13492, L1, 1300Ω
B	1B8	KS-20289, L3C, 898Ω
D	1B2	KS-13492, L1, 560Ω

JACK
458 TYPEJACK
280 TYPE

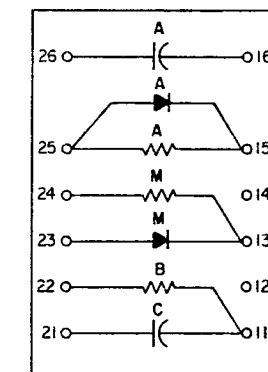
REPEAT COIL

DESIG	LOC	CODE
A	1B5	120C (Y) 120D (Z)

APP FIG. 2

RELAY

DESIG A										DESIG	
CODE AJ102										CODE	
OPTION										OPTION	
CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC		
ARR		ARR		ARR		ARR		ARR			
12	B	2E6								12	
11										11	
10										10	
9										9	
8										8	
7										7	
6										6	
5										5	
4										4	
3										3	
2	M	2E6								2	
1	M	3CO								1	
COIL		2C5								COIL	

COMPONENT ASSEMBLY
278A TS E/WDESIG
CA3

CAPACITORS

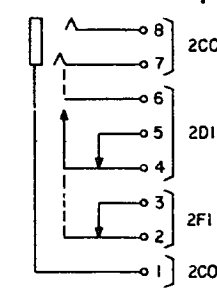
DESIG	LOC	CODE
A	2C6	535GH
C	2B7	535FW

DIODES

DESIG	LOC	CODE
A	2C5	446F
M	2E7	533A

RESISTORS

DESIG	LOC	CODE
A	2B5	KS-13492, L1, 1300Ω
B	2C7	KS-20289, L3C, 898Ω
M	2E7	KS-20810, L1A, 1000Ω

JACK
458 TYPELAMP
DESIG

DESIG	LOC	CODE
M	2E6	13A (RES)

ISSUE

1

INFORMATION TRUNK CIRCUIT

②

SD-35036-01-C1

BELL TELEPHONE LABORATORIES
INCORPORATED

6S

PRINTED IN U.S.A.

Scanned @300dpi by Steve Cichorsky

APP FIG. 3

RELAY		A2				A1								B								ID				DESIG	
CODE		AX42												AG43								AJI31				CODE	
OPTION		CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	CONT	LOC	OPTION			
12				M	c							BM	3F2					EBM	3F1					12			
11				M	3F4							M	3C2					EMB	3E1					11			
10				EBM	a							BM	a					EBM	3E1					10			
9												M	3E7					EMB	a					9			
8				EMB								BM	d					EBM						8			
7												M	3B0					EMB	b					7			
6												BM	3D7					EBM						6			
5	EMB	a										M	1C2					EMB	d					5			
4												BM	b					EBM	1B2					4			
3	EBM											M	3F2					EMB	e					3			
2	M											BM	c					EBM	3D7					2			
1	M	3E7										M	3C7					EMB	c					1			
COIL					b								3C1						3E2					COIL			
		a		1E0		a		1E1				a		1B6				a		1C7							
				2E0				2E1				b		2C7				b		2D6							
						b		1F4				c		1B4				c		1B7							
								2F5				d		2B3				d		2B6							
						c		1F4						1C4				c		1B1							
								2F4						2C3						2B2							
												d		1D4				d		1D1							
														2E4				e		1C2							
																				2D2							
CIRCUIT PACK																											
DESIG		LOC		CODE																							

CIRCUIT NOTES:

101	DESIG	FUSE AMP	POTENTIAL	ONE PER
		1-1/3	-48 TALK	APP FIG. 1,3 OR APP FIG. 1,2
		GRD		APP FIG. 1,3 OR APP FIG. 1,2
		BATTERY SYMBOL		VOLTAGE RANGE
		-48		45-52

102.	FEATURE OR OPTION		PROVIDE		
			APP FIG.	APP OR WRG	QUANTITY
	LOOP SIGNALING TRUNK CIRCUIT		1,3		ONE PER TRUNK SEE NOTE 105
	E & M LEAD SIGNALING TRUNK CIRCUIT		2,3		ONE PER TRUNK
ANI OPERATION		R. 20 NOT REQD		X	ONE PER TRUNK

CIRCUIT NOTES: (CONT)

102.	FEATURE OR OPTION	PROVIDE		
		APP FIG.	APP OR WRG	QUANTITY

103. NETWORK VALUES		
NETWORK NO.	RESISTANCE IN OHMS	CAPACITANCE IN UF

CIRCUIT NOTES: (CONT)

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
5B	W	NONE		W		

CIRCUIT NOTES: (CONT)

105. PROVIDE REPEAT COIL (A) (APP FIG. 1) IN ACCORDANCE WITH THE FOLLOWING TABLE:

TRANS FAC IMP AT 1KHz	CODE	OPTION		WINDING RATIO 2-1, 6-5 TO 4-3, 8-7	WINDING RESISTANCE	
		APP	WRG		2-1 OR 6.5	4-3 OR 8.7
UP TO 1.1KΩ	120C		Y	1:1	7.8	5.5
1.1KΩ OR GREATER	120D		Z	1:1.5	12.7	5.5

SD-35036-01-D1

ISSUE
5B

INFORMATION TRUNK CIRCUIT

BELL TELEPHONE LABORATORIES
INCORPORATED

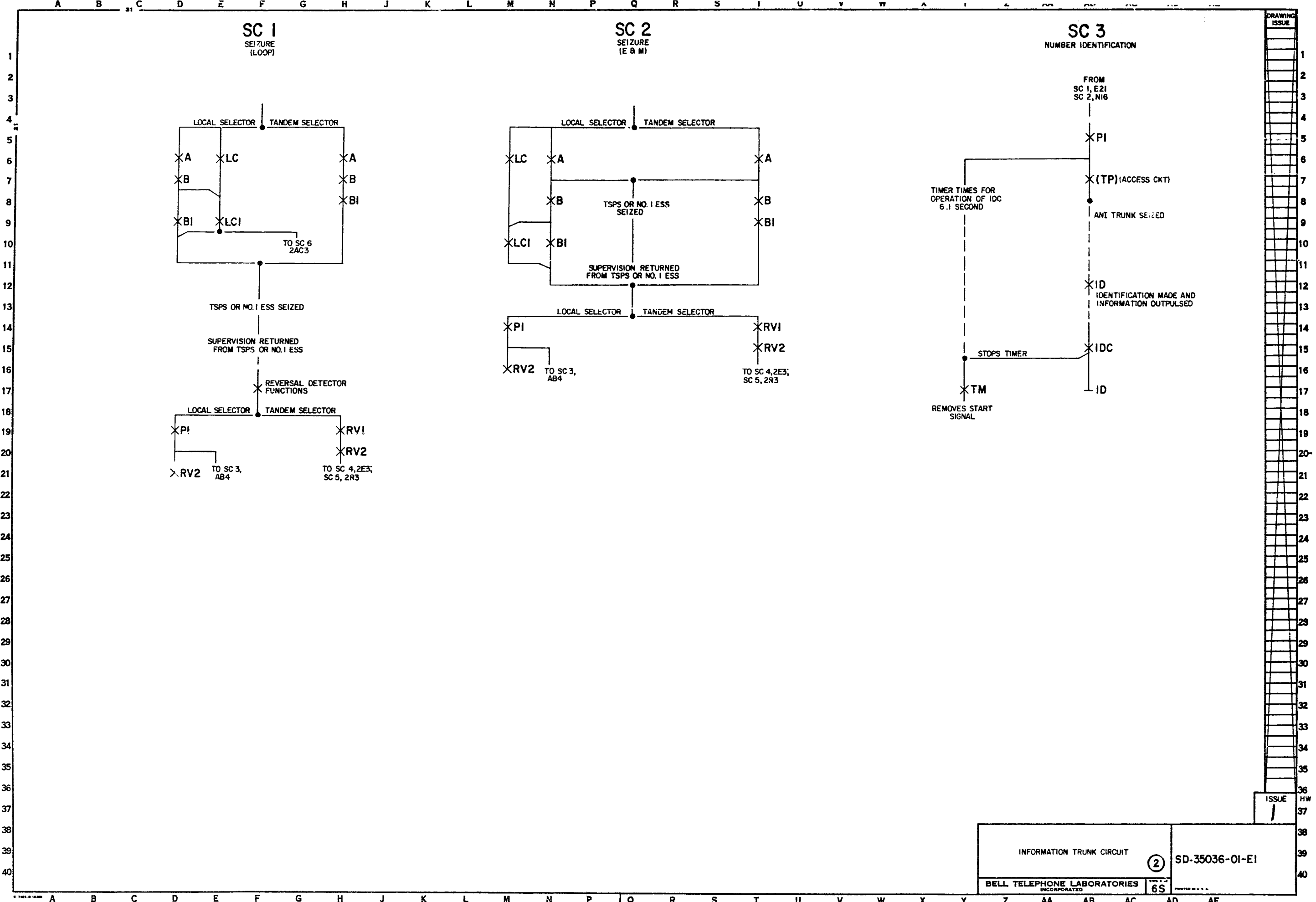
2

SD-35036-01-D1

6S

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS,
VALUES PRECEDED BY THE SYMBOL + {PLUS}
OR - {MINUS} ARE IN VOLTS.

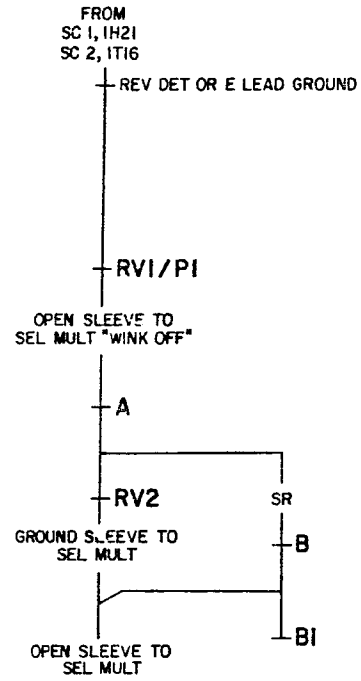




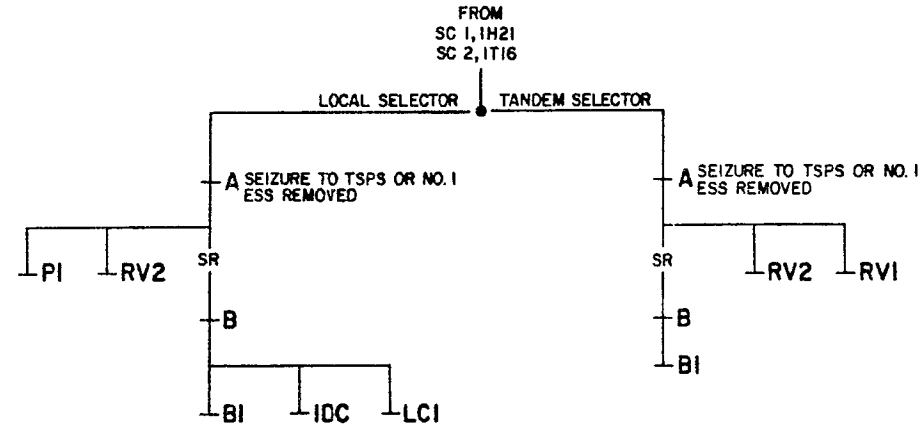
SD-35036-01-E1

INFORMATION TRUNK CIRCUIT		②	SD-35036-01-E1
BELL TELEPHONE LABORATORIES INCORPORATED			
		6S	

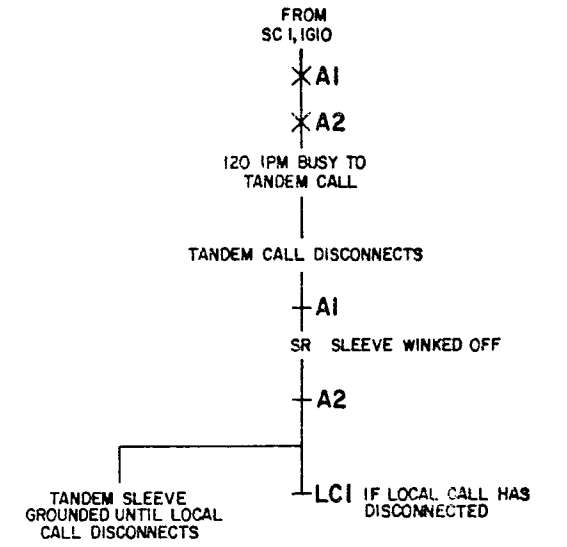
SC 4
CALLED PARTY DISCONNECTS
FIRST TIMED DISCONNECT
(SUPERVISION FROM DISTANT OFFICE)



SC 5
CALLING PARTY DISCONNECTS
FIRST



SC 6
SIMULTANEOUS SEIZURE

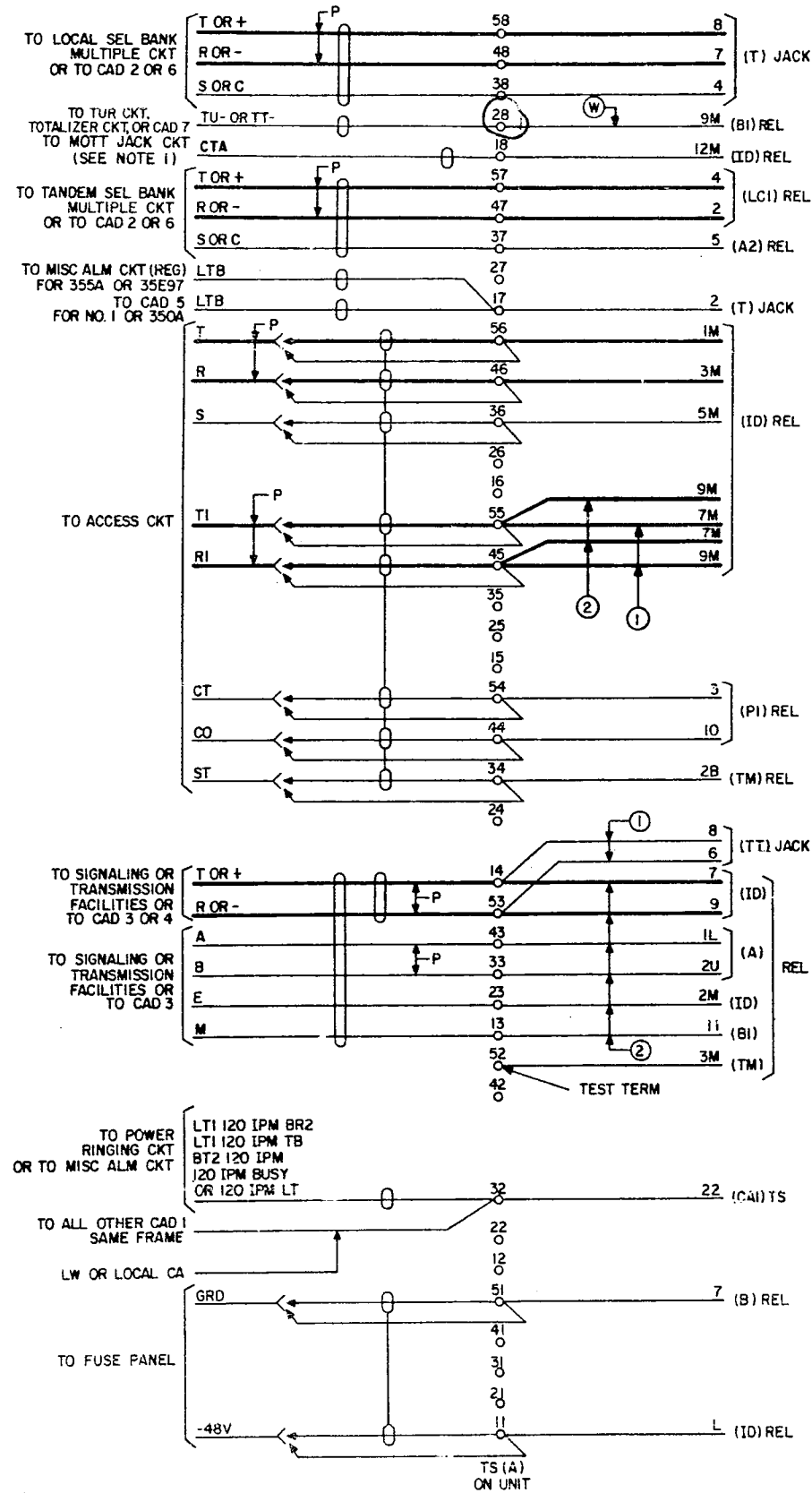


SD-35036-01-E2

INFORMATION TRUNK CIRCUIT		②	SD-35036-01-E2
BELL TELEPHONE LABORATORIES INCORPORATED		6S	

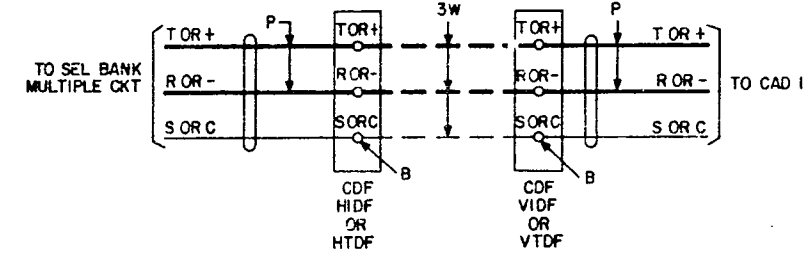
ISSUE
1

CAD 1 (APP FIG. 1,2,3)



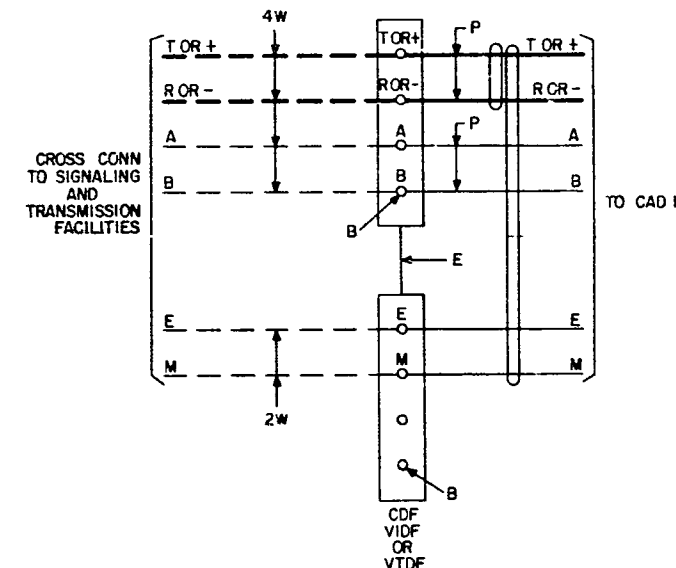
CAD 2

CONN TO SEL BANK
MULTIPLE CKT THRU
IDF, TDF OR CDF
(FOR LOCAL OR TANDEM)



CAD 3

DISTRIBUTING FRAME
TERMINATION OUTGOING END
(E&M SIGNALING)

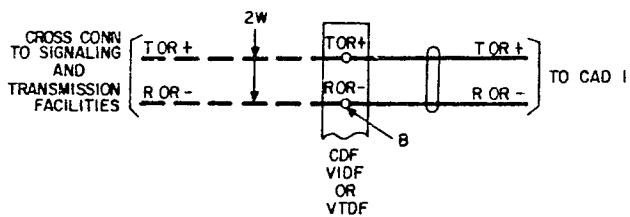


NOTE:
1. PUNCHING 18 ON TS (A) IS TO BE USED
FOR A CORD CONNECTION WHEN A
PORTABLE DIRECTORY ASSISTANCE TEST
SET (J34732A-1), IS USED.

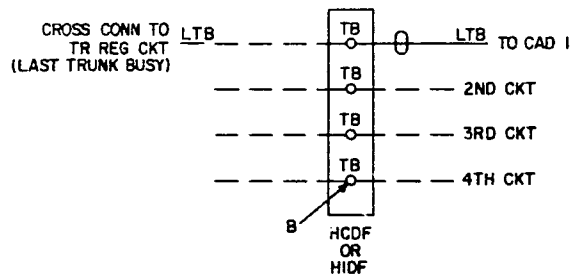
SD-35036-01-G1

INFORMATION TRUNK CIRCUIT		SD-35036-01-G1
BELL TELEPHONE LABORATORIES INCORPORATED		
65		58

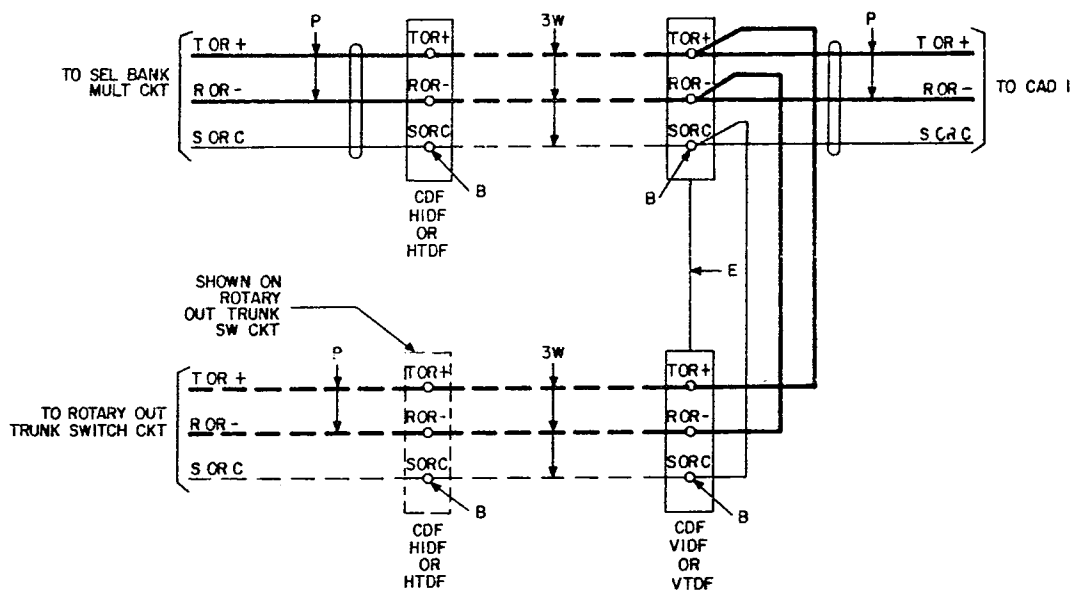
CAD 4 DISTRIBUTING FRAME TERMINATION OUTGOING END (LOOP SIGNALING)



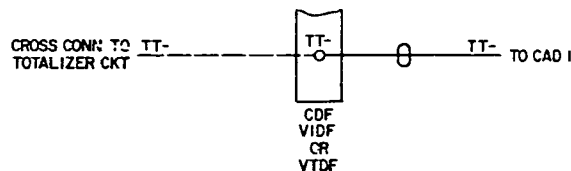
CAD 5 FOR NO. 1 & 350A OFFICES WHERE TRUNKS ARE CROSS CONN AT TDF & TR REG AT CDF OR IDF



CAD 6 CONNECT TO SEL BANK MULTIPLE CKT AND ROTARY OUT TRUNK SWITCH CKT VIA IDF, TDF, CDF (FOR LOCAL OR TANDEM)

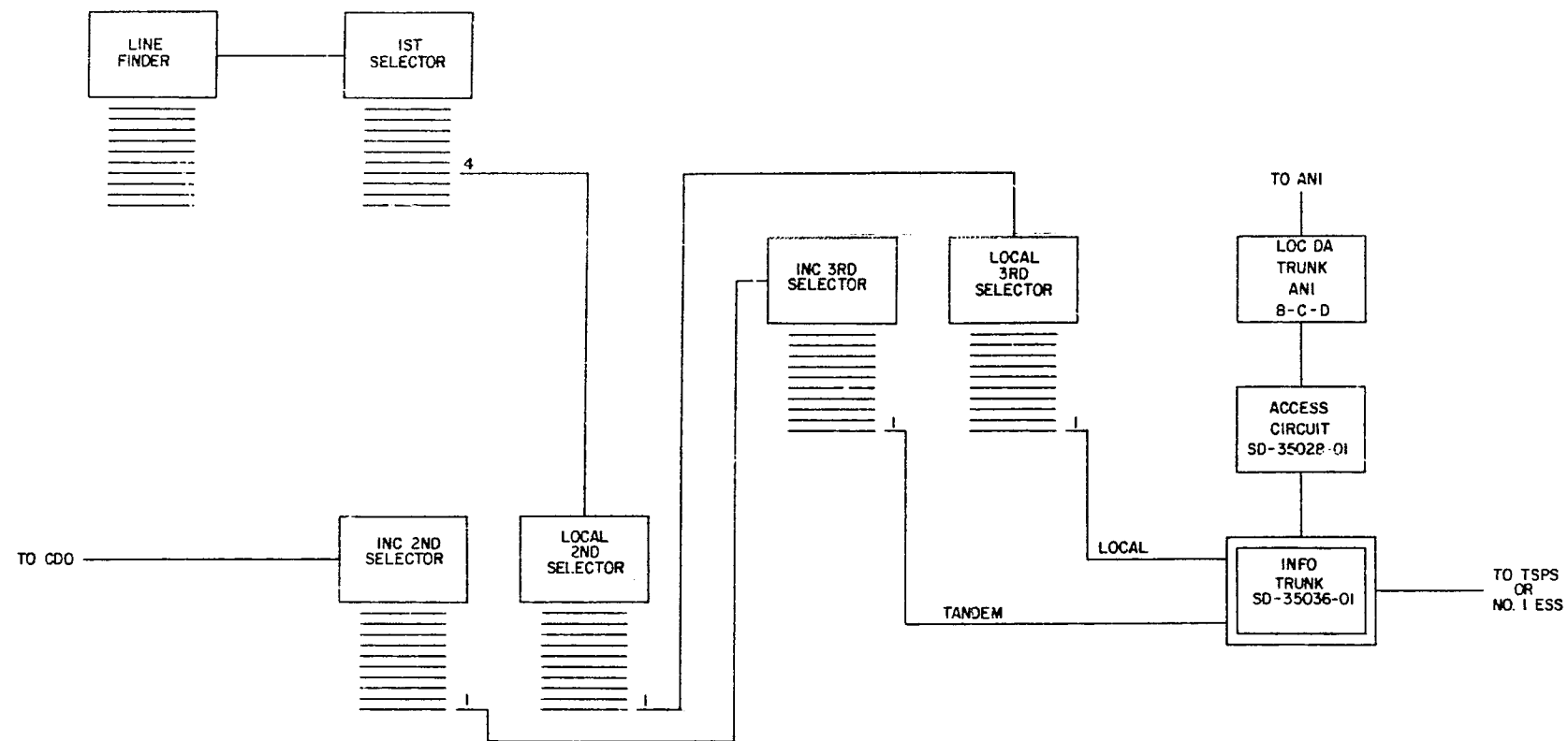


CAD 7 WHEN CONNECTION TO TOTALIZER CKT IS REQUIRED ON A CROSS CONN BASIS



SD-35036-01-62

BD I BLOCK DIAGRAM

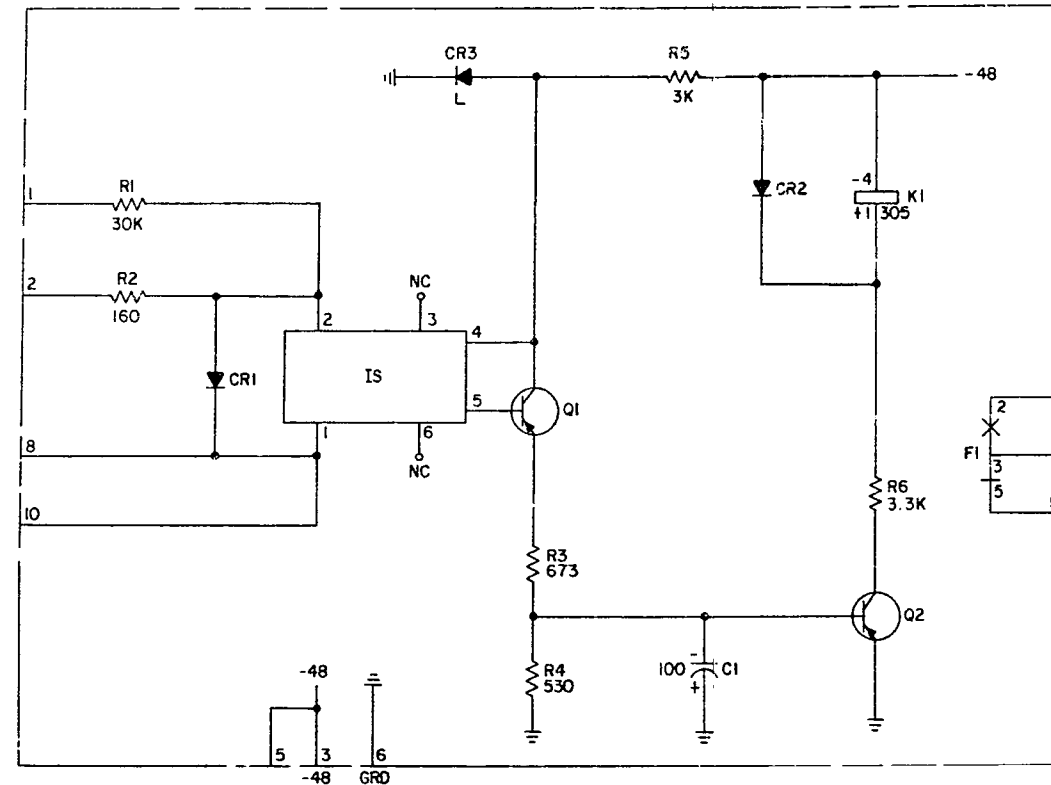


SD-35036-01-HI

ISSUE
1

INFORMATION TRUNK CIRCUIT		②	SD-35036-01-HI
BELL TELEPHONE LABORATORIES INCORPORATED			
6S		PRINTED IN U.S.A.	

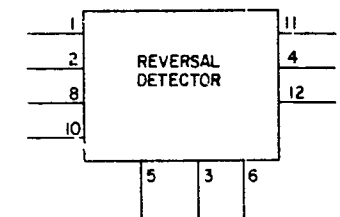
CPS I REVERSAL DETECTOR



MANUFACTURING REFERENCES

CATEGORY	NO.
CIRCUIT PACK CODE AND ASSEMBLY DRAWING	ED-35017-1)
CONTROLLING CIRCUIT SHEET NO.	SD-35020-01 J1
CONNECTOR ON FRAME	KS-19437, L1

SYMBOL



NOTES:

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

SD-35036-01-J1

INFORMATION TRUNK CIRCUIT

②

SD-35036-01-J1

SELL TELEPHONE LABORATORIES
INCORPORATED

6S

PRINTED IN U.S.A.

ISSUE

1