

SHEET INDEX	
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CPS: 50 CYCLE INVERTER	5

CIRCUIT NOTES: (CONT)

103. RECORD OF FIGURES, WIRING AND APPARATUS CHANGES

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT		
				STD	A&N	WD
2D	Y OR Z	Z		Y		Z
3B	X,V	V		X		V
5D	BATTERY					KS-1588E L141D
6B	APP FIG 7 APP FIG 8 OR T	T	102	APP FIG 7,8		T
	S	NONE		S		
7D	DC TO DC CONVERTER			KS-1587 L2 J87225A L2 & L4		J87225A L1
8D				APP FIGS 1A,4A, 7&8		

EQUIPMENT NOTES:

201. WIRING NOT OTHERWISE SPECIFIED SHALL BE 22GA KS-13385, SOLID. ALL OTHER GAUGE LEADS SHALL BE KS-13385, STRANDED, EXCEPT AS NOTED.
202. FN TYPE FUSES SHALL BE OF THE MULTIPLE-ELEMENT (TIME DELAY) TYPE.
203. [] INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.

SUPPORTING INFORMATION

CATEGORY	NUMBER
EQUIPMENT DRAWINGS	J864646 J86464M J86464N J86464N
EQUIPMENT DESIGN REQ	J86464
MAINTENANCE SPECIFICATION	167-480-301
MANUFACTURING TEST REQ	ES 947193 X77617

HOWG ISSUE	RECORDS	DATE ISSUED	BY	CHKD	APPV
1	1	1-27-66	JEB	JEB	WH
2D	1	11-7-66	JEB	JEB	WH
3B	1	1-31-67	JEB	JEB	WH
4A	1	8-10-69	WFF	JEB	WH
5D	2D	12-2-69	JEB	JEB	NK
6B	2D	1-27-70	JEB	JEB	KT
7D	2D	5-23-70	JEB	JEB	KT
8D	2D	12-17-75	JEB	JEB	KT

CIRCUIT NOTES:

101.

DESIG	FUSE	POTENTIAL	ONE PER
BATTERY SYMBOL	-48	VOLTAGE RANGE	45-52.5

104. CONNECT TO TERMINAL 5, 6, OR 7 DEPENDING ON WHETHER THE AC SERVICE VOLTAGE IS 123, 117, OR 111 VOLTS RESPECTIVELY.

105. THE J87211A RECTIFIERS WILL BE PROVIDED WITH Z OPTION TO PERMIT OPERATION WITH 115 VOLT 2-WIRE SERVICE.

INFORMATION NOTES:

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.

102.

FEATURE OR OPTION	PROVIDE		QUANTITY
	APP FIG	APP OR PART	
POWER SUPPLY CIRCUIT FOR BATTERY OPERATION	1,2,3,4,5,6,7,8		1 PER CKT
-96V APPLIQUE	1	X	1 PER CKT

TABLE A
INTERRUPTER, CS-15934, L1

PULSE DESCRIPTION	PULSE TOLERANCES		CONTACT 3R3JP	TIMING SEQUENCE SECONDS									
	CLOSED	OPEN		0	1	2	3	4	5	6	7		
15 IPX RIW CR	0.95-1.05		1a										
15 IPX	0.20-.30		1b										
30 IPX		0.200 TO 0.350	2a										
			2b										
60 IPX - LF	0.450 TO 0.550		3a										
			3b										
			3c										
			3d										
120 IPX	0.200 TO 0.300		4a										
			4b										
			4c										
			4d										
7.5 IPX - TH	0.225±0.100		5a										
			5b										
7.5 IPX - PU	0.325±0.100		6a										
			6b										
120 IPX - LW		0.02 TO 0.05	7a										

— DENOTES CLOSURE OF CONTACTS

OPTION INDEX

APP OR PART	LOCATION
Z	APP FIG. 2
Y	APP FIG. 2
X	APP FIG. 2
V	266, 367
T	262, 2F5, 265
S	264
7	APP FIG 7, 2A6, 262, 2H2
8	APP FIG 8, 2A5, 2F5

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

ISSUE
8D

REPLACES SD-81326-01

SD-81326-02 1M99

POWER SYSTEMS
POWER SUPPLY CIRCUIT
FOR 7561 POK
WITH BATTERY RESERVE
J35464

STATO
STANDARD

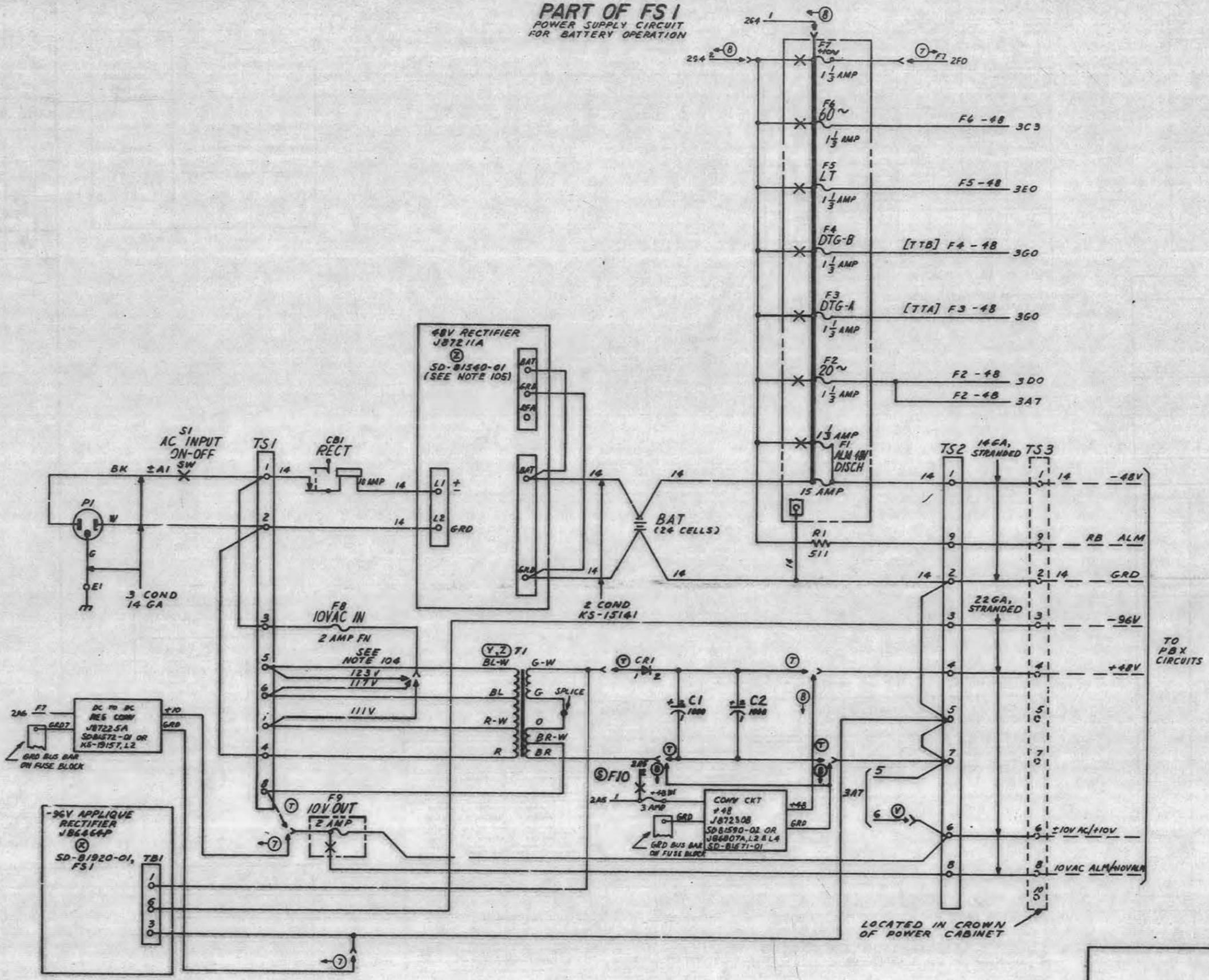
SD-81326-02-1
5 SHEETS

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INCORPORATED

65

PART OF FS 1
POWER SUPPLY CIRCUIT
FOR BATTERY OPERATION

DRAWING ISSUE	
1	FC
2D	FC
3B	FC
4A	FC
5D	FC
6B	FC



ISSUE
8D

POWER SUPPLY CIRCUIT

BELL TELEPHONE LABORATORIES
INCORPORATED

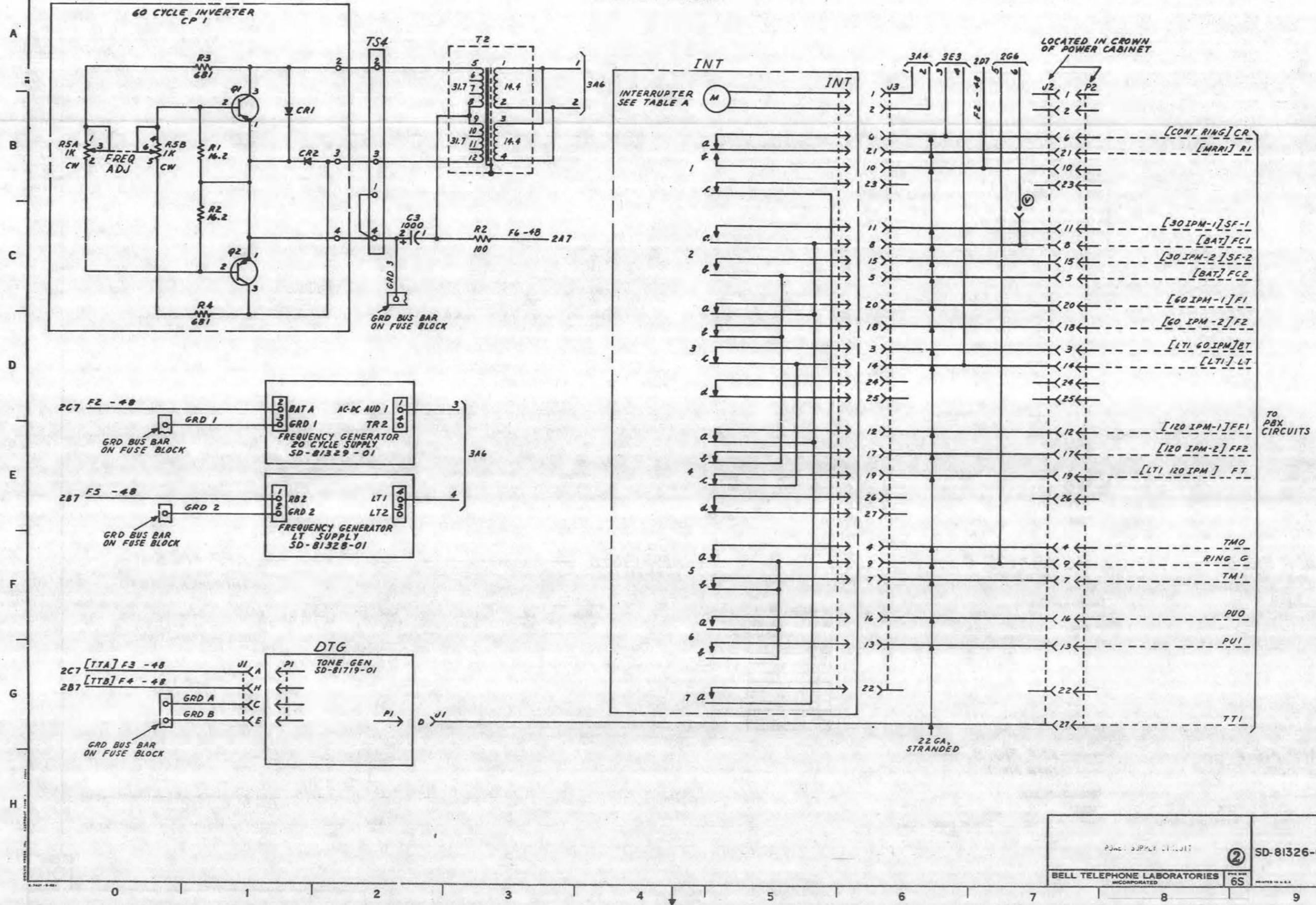
SD-81326-02-2

6S

SD-81326-02-2

PART OF FS 1
POWER SUPPLY CIRCUIT
FOR BATTERY OPERATION

DRAWING	ISSUE
1	8D
2D	
3B	
4A	
5D	
6B	



SD-81326-02-3

POWER SUPPLY CIRCUIT ② SD-81326-02-3

BELL TELEPHONE LABORATORIES INCORPORATED

ISSUE 8D

APP FIG. 1
(MFR DISC)

RECTIFIER	DESIG	LOC	CODE
48V RECTIFIER	2C3		J87211A, L5, 7

CIRCUIT PACK			
EQPT	DESIG	LOC	CODE
	CP1		
OPTION	IDENT	TERM	FS LOC

CAPACITOR		
DESIG	LOC	CODE
Ⓢ C1	2F5	KS-14330, 1000
Ⓢ C2	2F5	KS-14330, 1000
Ⓢ C3	3C2	KS-14330, 1000

APP FIG. 2
(SEE NOTE 1)
(A & B ONLY)

(CONNECTOR) SOCKET		
DESIG	LOC	CODE
J2	3A7	KS-8586, L34
J3	3A6	KS-8586, L34

CONNECTOR		
DESIG	LOC	CODE
P1	2E0	HURRELL NO. 5266
P2	3A7	KS-8585, L32

DIODE		
DESIG	LOC	CODE
Ⓢ CR1	2F4	426A

CIRCUIT BREAKER		
DESIG	LOC	CODE
CB1	2D2	KS-15815, L36

FUSE		
DESIG	LOC	CODE
Ⓢ F1	205	KS-19780, L3
F2	2C5	70A
F3	2C5	70A
F4	2B5	70A
F5	2B5	70A
F6	2A5	70A
F7	2A5	70A
F8	2E2	BUSSMAN MDL
F9	2G2	70B
Ⓢ F10	2H4	70C

INTERRUPTER		
DESIG	LOC	CODE
INT	3A4	KS-15984, L1

RECTIFIER		
DESIG	LOC	CODE
Ⓢ -96V APPLIQUE	200	J86464P

RESISTOR		
DESIG	LOC	CODE
R1	2E5	KS-14603, L2A, 511
R2	3C3	KS-14175, L3A, 100

SWITCH
S1
AC OUTPUT
CUTLER HAMMER NO. 7322
OFF
ON

TRANSFORMER		
DESIG	LOC	CODE
Ⓢ T1	2F3	410A
Ⓢ T1	2F3	410B
T2	3A3	1770 REP COIL

APP FIG. 3
(MFR DISC)

FREQUENCY GENERATOR		
DESIG	LOC	CODE
20 CYCLE SUPPLY	3E2	J86464H

APP FIG. 4
(MFR DISC)

FREQUENCY GENERATOR		
DESIG	LOC	CODE
LT SUPPLY	3E2	J86464G

APP FIG. 5
(MFR DISC)

(CONNECTOR) SOCKET	
DESIG	J1
CODE	KS-14528, L2
OPTION	
TERM	
A	361
B	
C	361
D	362
E	361
F	
H	361

GENERATOR		
DESIG	LOC	CODE
DTG	362	404C

APP FIG. 6
(SEE NOTE 2)
(MFR DISC)

BATTERY		
DESIG	LOC	CODE
BAT	2E4	KS-5361, L141D OR KS-15886, L141D

APP FIG. 7
(MFR DISC)

CONVERTER, DC TO DC		
DESIG	LOC	CODE
+10V	2F0	J8725A OR KS-1985, L2

APP FIG. 8
(MFR DISC)

CONVERTER, DC TO DC		
DESIG	LOC	CODE
+48V	2G5	J8723B OR J86807A, L2 & L4

- SHEET NOTES:
- (J2) and (P2) SOCKET AND CONNECTOR SHALL BE FURNISHED WIRED AND LOCATED IN CROWN OF POWER CABINET.
 - EITHER CODE OF BATTERY AS INDICATED MAY BE FURNISHED DEPEND-
ING ON AVAILABILITY.

1	FC
2D	FC
3B	FC
4A	FC
5D	FC
6B	FC

ISSUE
3D

POWER SUPPLY CIRCUIT	2	SD-81326-02-4
BELL TELEPHONE LABORATORIES INCORPORATED	6S	

SD-81326-02-4

COMPONENT LIST

DESIG	CODE
CR1	426A
CR2	426A

POTENTIOMETER

DESIG	CODE
R5A, R5B	KS-13750, L17, 1K

RESISTOR

DESIG	CODE
R1	221A, 16.2
R2	221A, 16.2
R3	KS-14603, L3A, 681
R4	KS-14603, L3A, 681

TRANSISTOR

DESIG	CODE
Q1	9A
Q2	9A

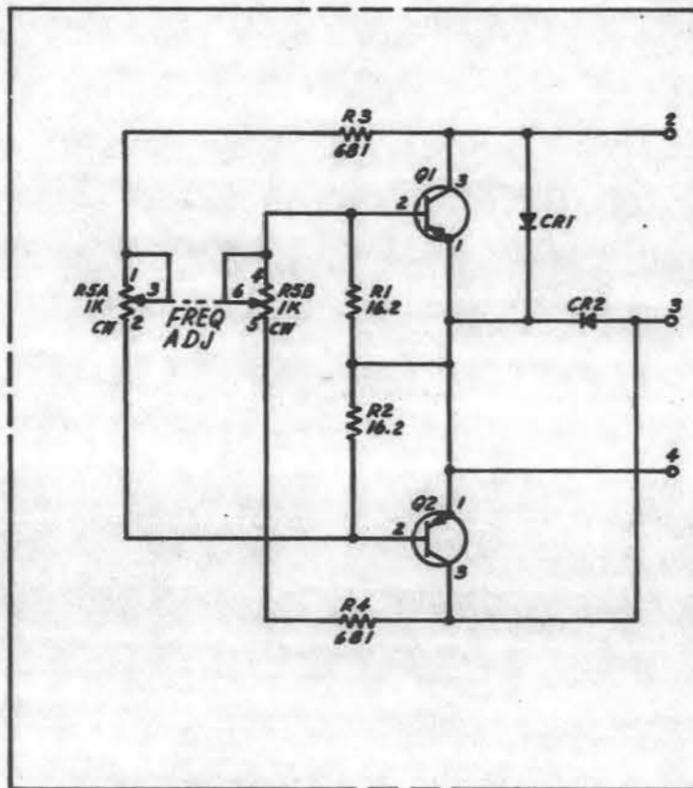
INPUT/OUTPUT INFORMATION

SHOWN IN CD-31326-02

CIRCUIT DESCRIPTION

SHOWN IN CD-31326-02

CPS 1
60 CYCLE INVERTER



MANUFACTURING REFERENCES

CATEGORY	NO.
CIRCUIT PACK CODE AND ASSEMBLY DRAWING	ED-82185-(), 0-1
CONNECTOR ON FRAME	HARATHON 304L

SYMBOL

CPS SHOWN IN DETAIL IN FS 1

NOTES:

1. UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS.
2. OPERATION REQUIREMENTS INFORMATION IS PART OF CD-31326-02.

SD-81326-02-5

POWER SUPPLY CIRCUIT	SD-81326-02-5
BELL TELEPHONE LABORATORIES INCORPORATED	MADE IN U.S.A.

ISSUE
8D