

SHEET INDEX

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CIRCUIT NOTES:

101.

DESIG	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL -48		VOLTAGE RANGE 45-52.6	

102.

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

CIRCUIT NOTES: (CONT)

103.

RECORD OF FIGURES, WIRING AND APPARATUS CHANGES				USE IN CIRCUIT		
CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	STD	A&M	MD
2D	Y OR Z	Z		Y		Z
3B	X, V	V		X		V

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.

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. FM TYPE FUSES SHALL BE OF THE MULTIPLE-ELEMENT (TIME DELAY) TYPE.
203. [ ] INDICATES DESIGNATIONS SHOWN FOR INFORMATION ONLY AND ARE NOT TO BE STAMPED.

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.

SUPPORTING INFORMATION

CATEGORY	NUMBER
EQUIPMENT DRAWINGS	J86464G J86464H J86464M J86464N
EQUIPMENT DESIGN REQ	J86464
MAINTENANCE SPECIFICATION	167-480-301

HWG ISSUE	RECORD ISSUE	DATE ISSUED	DRAWN	APPD
1	1	1-27-66	FAN JTS FIB	WH DET FC
2D	1	APP ID 11-7-66	ROW	SR DET FC
3B	1	APP 2B 1-31-67	ROW	SR DET FC
4A	1	APP 3A 2-10-67	WF FC	WH DET FC

TABLE A  
INTERRUPTER, KS-15984, L1

PULSE DESCRIPTION	PULSE TOLERANCES		CONTACT GROUP	TIMING SEQUENCE SECONDS								
	CLOSED	OPEN		0	1	2	3	4	5	6	7	8
15 IPH RING CR	0.95-1.05		1a									
15 IPH R	0.20-.30		1b									
30 IPH		0.200 TO 0.350	2a									
			2b									
60 IPH - LF	0.450 TO 0.550		3a									
			3b									
			3c									
			3d									
120 IPH	0.200 TO 0.300		4a									
			4b									
			4c									
			4d									
7.5 IPH - TM	0.225±0.100		5a									
			5b									
7.5 IPH - PU	0.325±0.100		6a									
			6b									
120 IPH - LW		0.02 TO 0.05	7a									

— DENOTES CLOSURE OF CONTACTS

OPTION INDEX

APP OR WRG	LOCATION
Z	APP FIG. 2
Y	APP FIG. 2
X	APP FIG. 2
V	2G6,3B7

REPLACES SD-81326-01

SD-81326-02 1M99

POWER SYSTEMS  
POWER SUPPLY CIRCUIT  
FOR 756A PBX  
WITH BATTERY RESERVE  
J86464

AT&TCO STANDARD

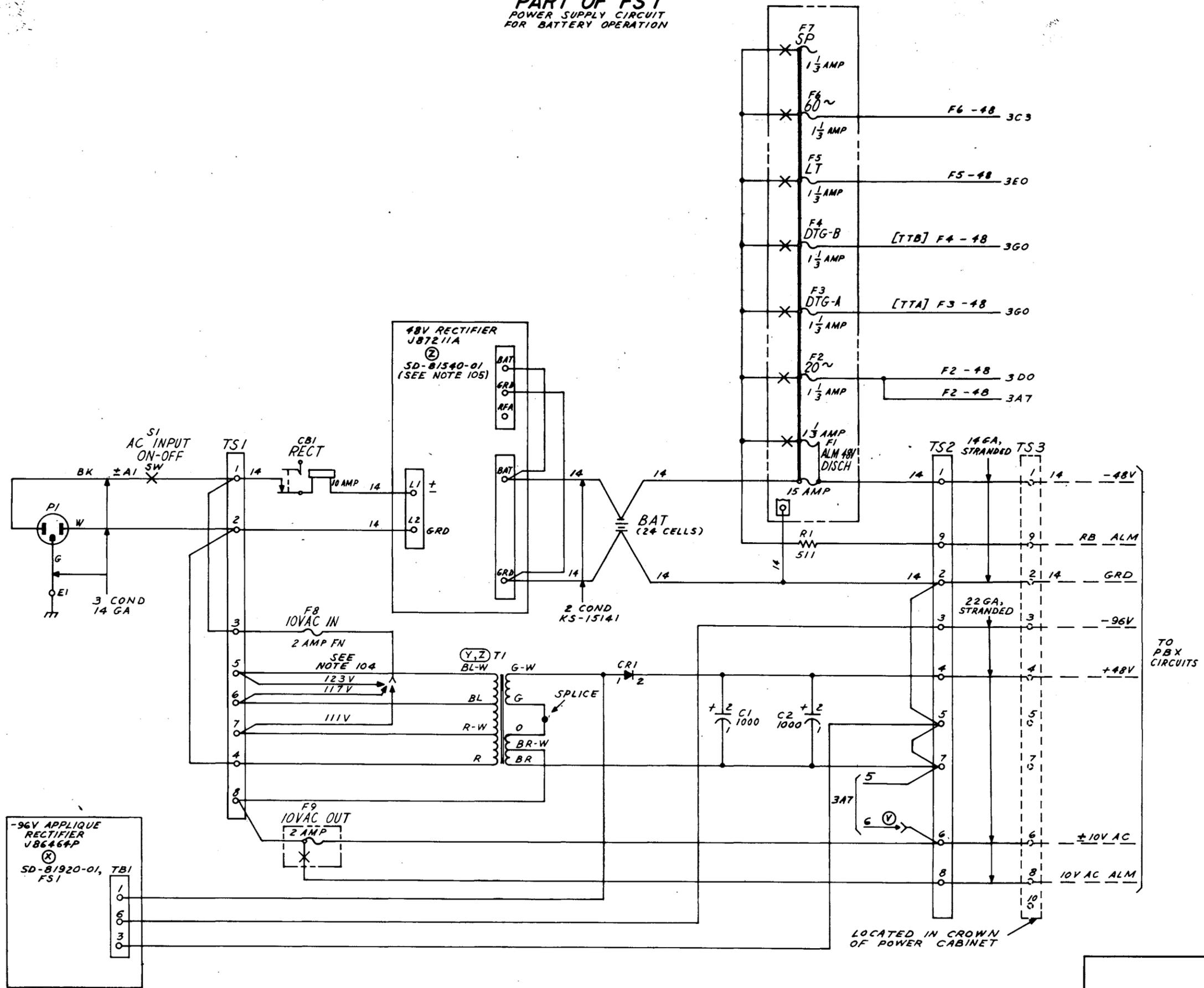
SD-81326-02-1  
5 SHEETS

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5 1326-02-1

**PART OF FS1**  
POWER SUPPLY CIRCUIT  
FOR BATTERY OPERATION



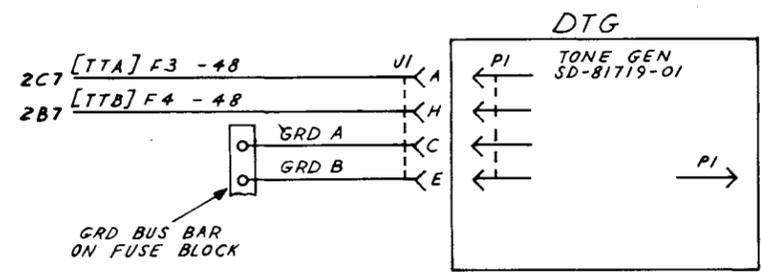
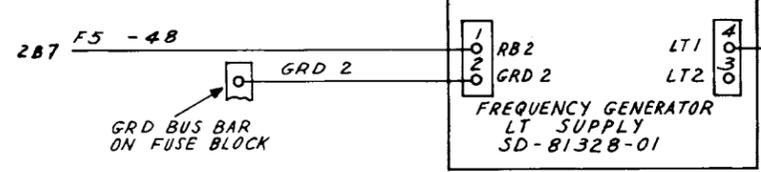
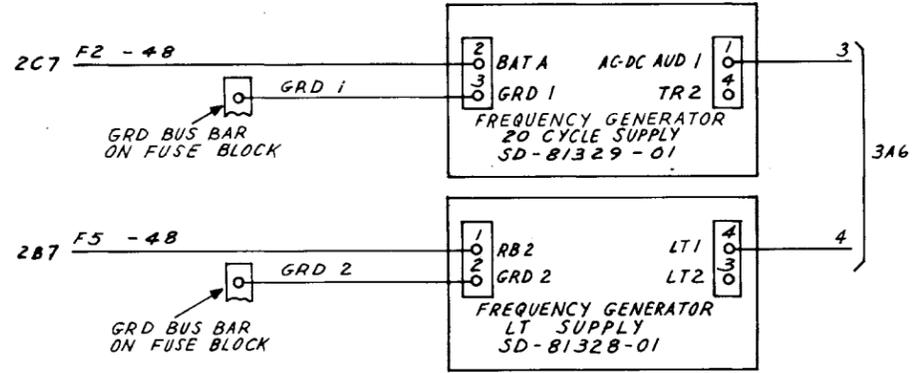
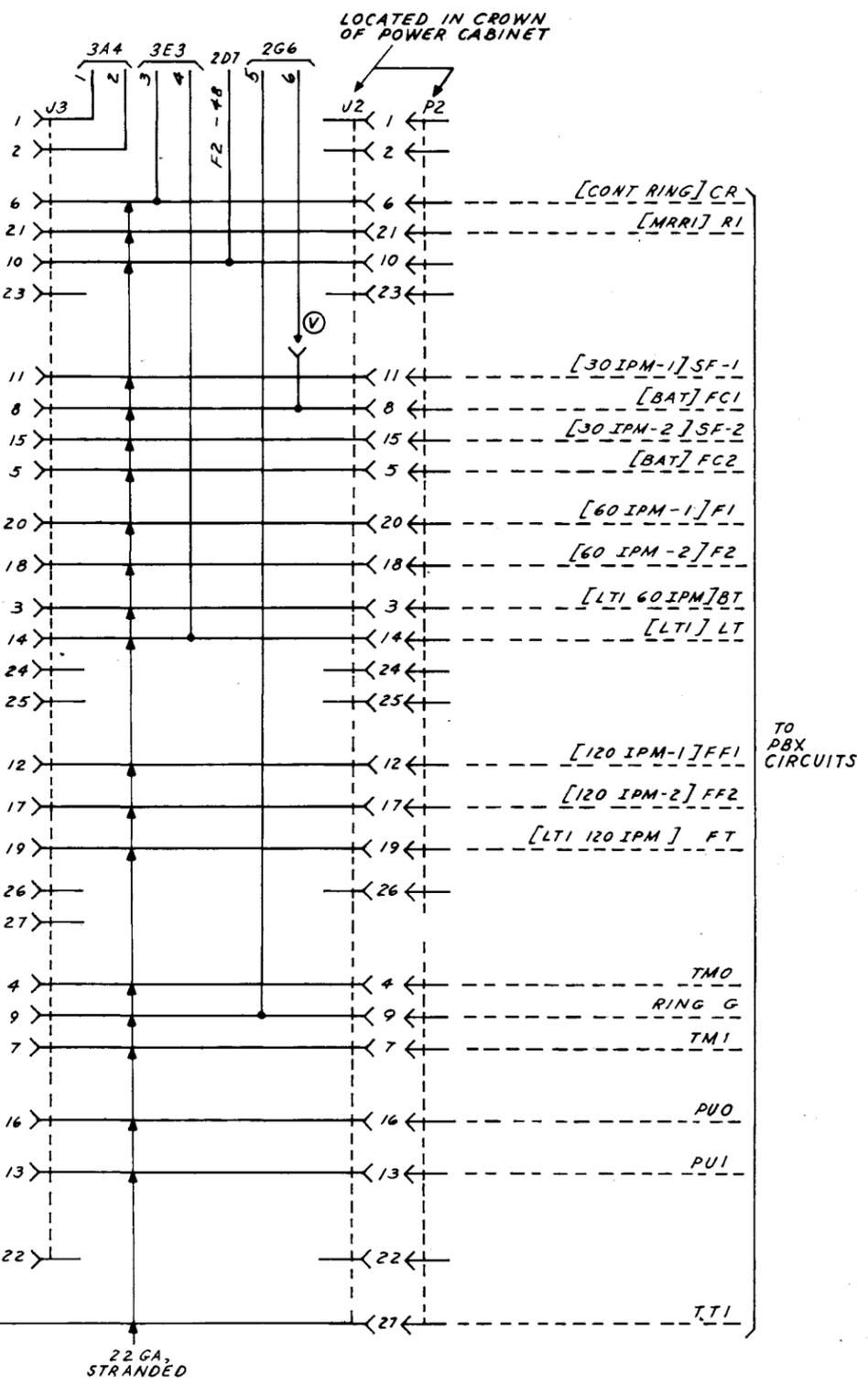
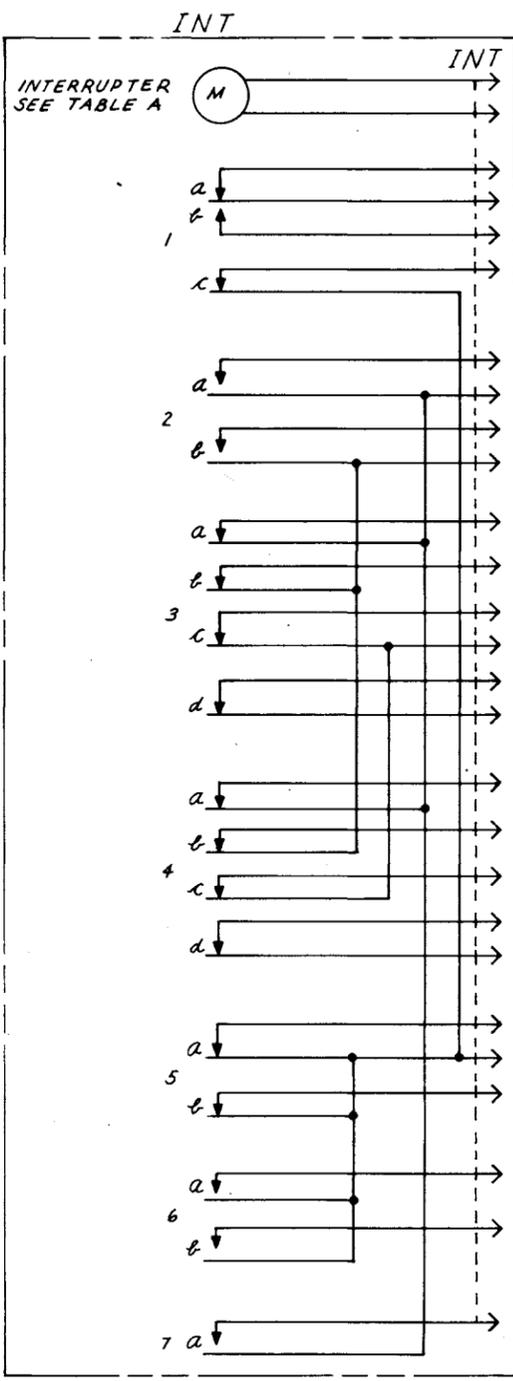
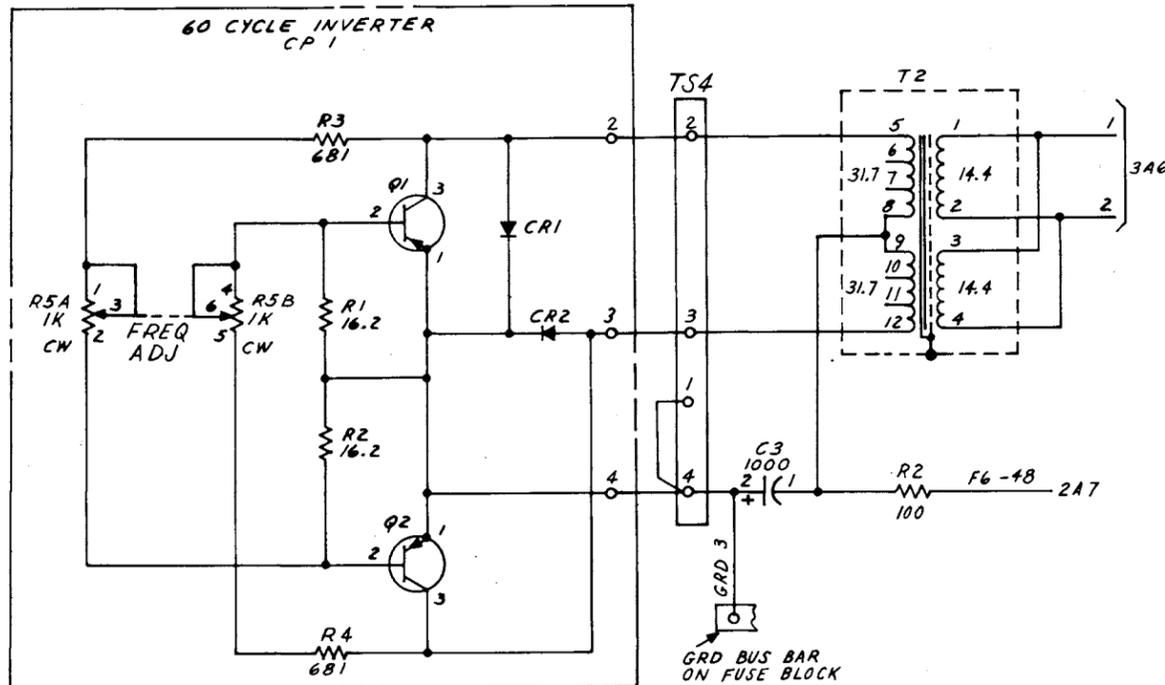
DRAWING ISSUE	
1	FC
2D	FC
3B	FC
4A	FC

POWER SUPPLY CIRCUIT ② SD-81326-02-2

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PART OF FS 1  
POWER SUPPLY CIRCUIT  
FOR BATTERY OPERATION

DRAWING ISSUE	
1	FCM
2D	FJB
3B	FC
4A	FC



SD-81326-02-3

POWER SUPPLY CIRCUIT

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APP FIG. 1

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

CIRCUIT PACK			
EQPT		TERM	
DESIG	CP1		
CODE	ED-82185-( ), G-1		
OPTION			
ELEM	IDENT	TERM	
TERM	DESIG	FS	LOC
4		3C2	
3		3B2	
2		3A2	

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)

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

CONNECTOR		
DESIG	LOC	CODE
P1	2E0	HUBBELL 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
[2] F1	2D5	KS-19780, L3 70A
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

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

RECTIFIER		
DESIG	LOC	CODE
(X) -96V APPLIQUE	2G0	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 2D1

TRANSFORMER		
DESIG	LOC	CODE
(Z) T1	2F3	410A
(Y) T1	2F3	410B
T2	3A3	177D REP COIL

APP FIG. 3

FREQUENCY GENERATOR		
DESIG	LOC	CODE
20 CYCLE SUPPLY	3E2	J86464H

FREQUENCY GENERATOR		
DESIG	LOC	CODE
LT SUPPLY	3E2	J86464G

(CONNECTOR) SOCKET	
DESIG	LOC
J1	
CODE	KS-14528, L2
OPTION	
TERM	
A	3G1
B	
C	3G1
D	3G2
E	3G1
F	
H	3G1

APP FIG. 5

GENERATOR		
DESIG	LOC	CODE
DTG	3G2	404C

APP FIG. 6  
(SEE NOTE 2)

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

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 DEPENDING ON AVAILABILITY.

DRAWING ISSUE  
1  
2D  
3B  
4A  
A  
B  
C  
D  
E  
F  
G  
H

4

POWER SUPPLY CIRCUIT ② SD-81326-02-4  
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COMPONENT LIST

DIODE

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

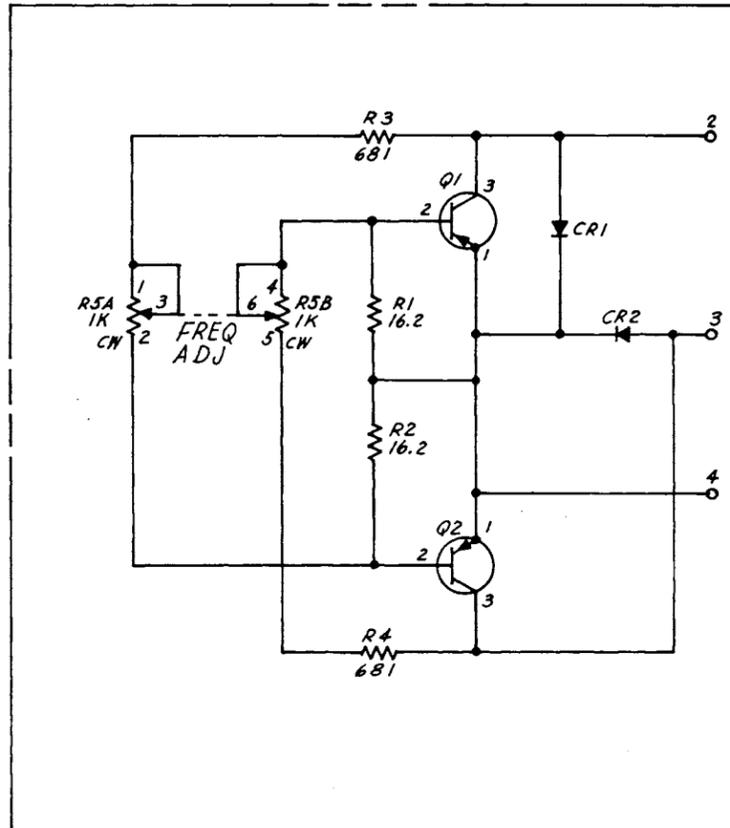
INPUT/OUTPUT INFORMATION

SHOWN IN CD-81326-02

CIRCUIT DESCRIPTION

SHOWN IN CD-81326-02

CPS 1  
60 CYCLE INVERTER



MANUFACTURING REFERENCES

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

SYMBOL

CPS SHOWN IN DETAIL IN FS 1

NOTES:

- UNLESS OTHERWISE SPECIFIED: RESISTANCE VALUES ARE IN OHMS.
- OPERATION REQUIREMENTS INFORMATION IS PART OF CD-81326-02.

DRAWING	ISSUE
1	1/16
2D	FC
3B	FC
4A	FC

POWER SUPPLY CIRCUIT

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SD-81326-02-5

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