

DEC-11-HR5B-D

H720
power supply and
mounting box
engineering drawings

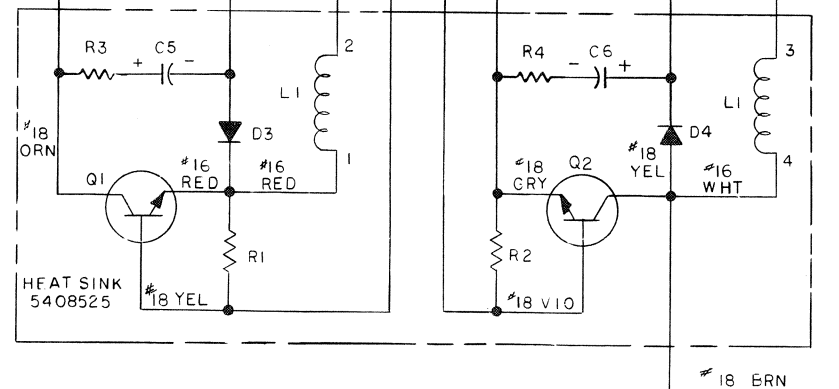
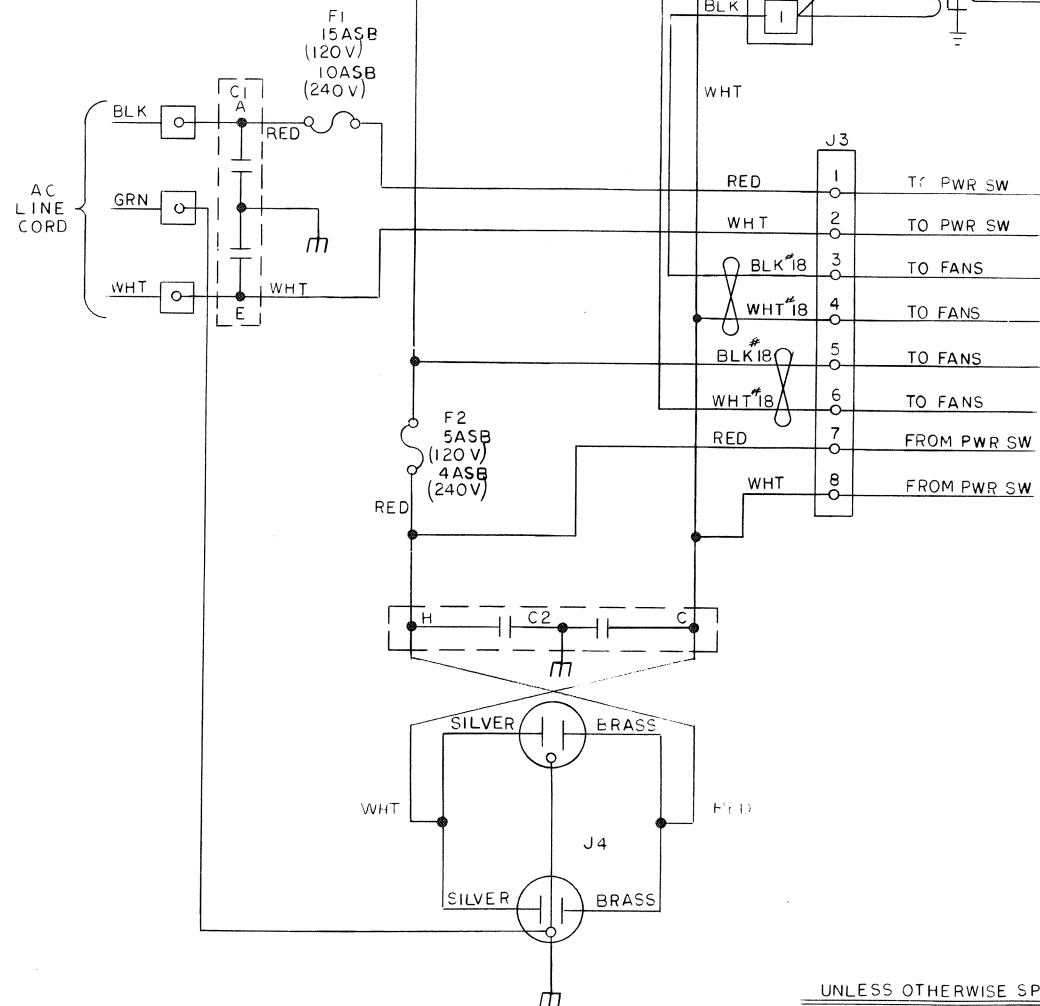
ENGINEERING DRAWINGS

Drawing No.	Title
D-CS-H720-0-1	Power Supply H720
D-CS-5408475-0-1	H720 Power Req. Board 5408475
D-UA-H720-E-0-0	Power Supply H720-E, Assembly Drawing
D-UA-H720-F-0-0	Power Supply H720-F, Assembly Drawing
D-CS-H720-E-0-0	Power Supply H720-E, Circuit Schematic
D-CS-H720-F-0-0	Power Supply H720-F, Circuit Schematic
A-PL-H720-E-0-0	Power Supply H720-E, Parts List
A-PL-H720-F-0-0	Power Supply H720-F, Parts List
D-CS-5409267-0-1	H720 Power Regulator Board 5409267, Schematic
E-IA-5409267-0-1	H720 Power Regulator Board 5409267, Assembly
A-PL-5409267-0-1	H720 Power Regulator Board 5409267, Parts List
D-UA-11/20-0-0	Basic Assembly/Configuration (PDP-11) (2 sheets)
D-UA-H960-CA-0	Cabinet Assembly (PDP-11)
D-UA-KY11-A-0	Console Assembly KY11-A
E-UA-H952-HA-0	Table Assembly
E-UA-BA11-0-0	Chassis Assembly (BA11)

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1-7-022H SC 0

INPUT VOLTAGE	JUMPERS	CONNECTIONS
120 10 %	3-6 1-4	3-4
218 10 %	2-5	3-4
225 10 %	2-6	3-4
233 10 %	1-5	3-4
240 10 %	1-6	3-4



REF DESIGNATION	DESCRIPTION	PART NO
C7	CAP 0.1MFD 100V DISC.	1001610
R3,R4	RES 10 Ω 1/2 W 5 %	1300168
H720 PWR REG BD	H720 PWR REG BD	5408475-0-0
HEAT SINK	HEAT SINK	1209685
J4 (240V)	AC DUPLEX OUTLET	9008856
J4 (120V)	AC DUPLEX OUTLET	1205351
F2 (240V)	FUSE AGC 4A SLO-BLO	9007220
F1 (240V)	FUSE AGC 10A SLO-BLO	9007225
F2 (120V)	FUSE AGC 5A SLO-BLO	9007222
F1 (120V)	FUSE AGC 15A SLO-BLO	9007227
FUSEHOLDER	FUSEHOLDER 15A 250V	9007242
D3,D4	DIODE 1N3899	1109781
D1,D2	DIODE BRIDGE DM15	1105799
Q1,Q2	TRANSISTOR 2N5301	1509737
R1,R2	RES 27 Ω 1W 5% CC	1302558
C5,C6	CAP 1MFD 150V	1000063
C3,C4	CAP. 22000 MFD 50V	1009189
C1,C2	CAP 2X.1MFD 1000V	1002153
P1	CONNECTOR 1-480460-0	1209340-01
J1,J2,J3	RECEPTACLE 1-480459-0	1209340-00
L1	TRANSFORMER COIL	1609762
T1	TRANSFORMER MMC 2940	1609810

CIRCUIT SHOWN WIRED FOR 120V.
FOR DIFFERENT VOLTAGE REFER TO JUMPER TABLE.

REVISIONS	CHG NO	REV	DATE	BY	CHKD
1	1	1	1/1/70	1	1

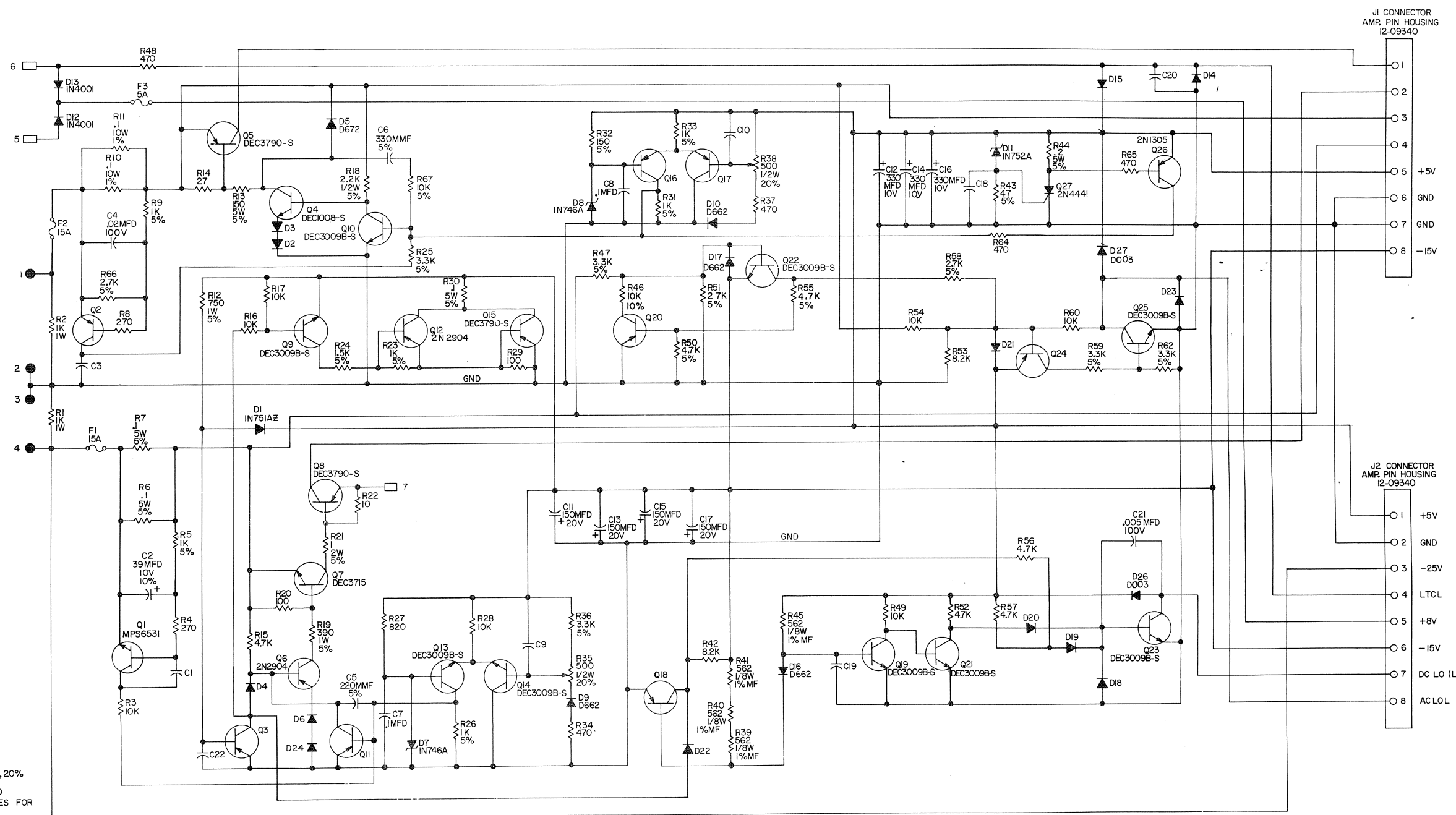
DATE	BY	CHKD
2/1/70	1	1

TRANSISTOR & DIODE CONVERSION CHART	DEC	EIA
2N5301	SAME	
1N3899	SAME	

PARTS LIST		TITLE	
digital EQUIPMENT CORPORATION		POWER SUPPLY H720	
SIZE	CODE	NUMBER	REV
D	CS	H720-0-1	0
PRINTED CIRCUIT REV.			

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H
A12
5408475-0-1
D CS
SIZE CODE
1/12



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE 0.1MFD, 100V, 20%
DIODES ARE D664
TRANSISTORS ARE DEC6534D
● INDICATES 11/64 DIA HOLES FOR
MOUNTING CAPACITORS
□ INDICATES FAST ON TABS

NOTE: "A" BOARDS HAVE BEEN RETRO-FITTED
TO "B" BOARD EXCEPT FUSE (F3-5AMP)
NOTE: GROUND JUMPER WILL NOT SHOW ON CKT. SCHEM.

REV	CHG	NO	REV
00001	A	00002	B
00003	C	00004	D
00005	E	00006	F
00007	G	00008	H

DRN
CHK'D
ENG
PROD

DATE
DATE
DATE
DATE

DEC	EIA	DEC	EIA
2N1305	SAME		
MP56531	SAME		
2N4441	SAME		
D672	IN3653		
DEC3715	2N3715		
2N2904	SAME	D003	IN994
D662	IN752A		
D664	IN3606	DEC6534D	MP56534
IN4001	SAME	DEC3790-S	2N3790
IN746A	SAME	DEC3009B-S	2N3009B
IN751A2	SAME	DEC1008-S	MM1008

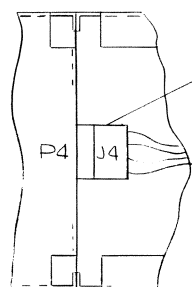
digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
H720 PWR REG.
BOARD 5408475

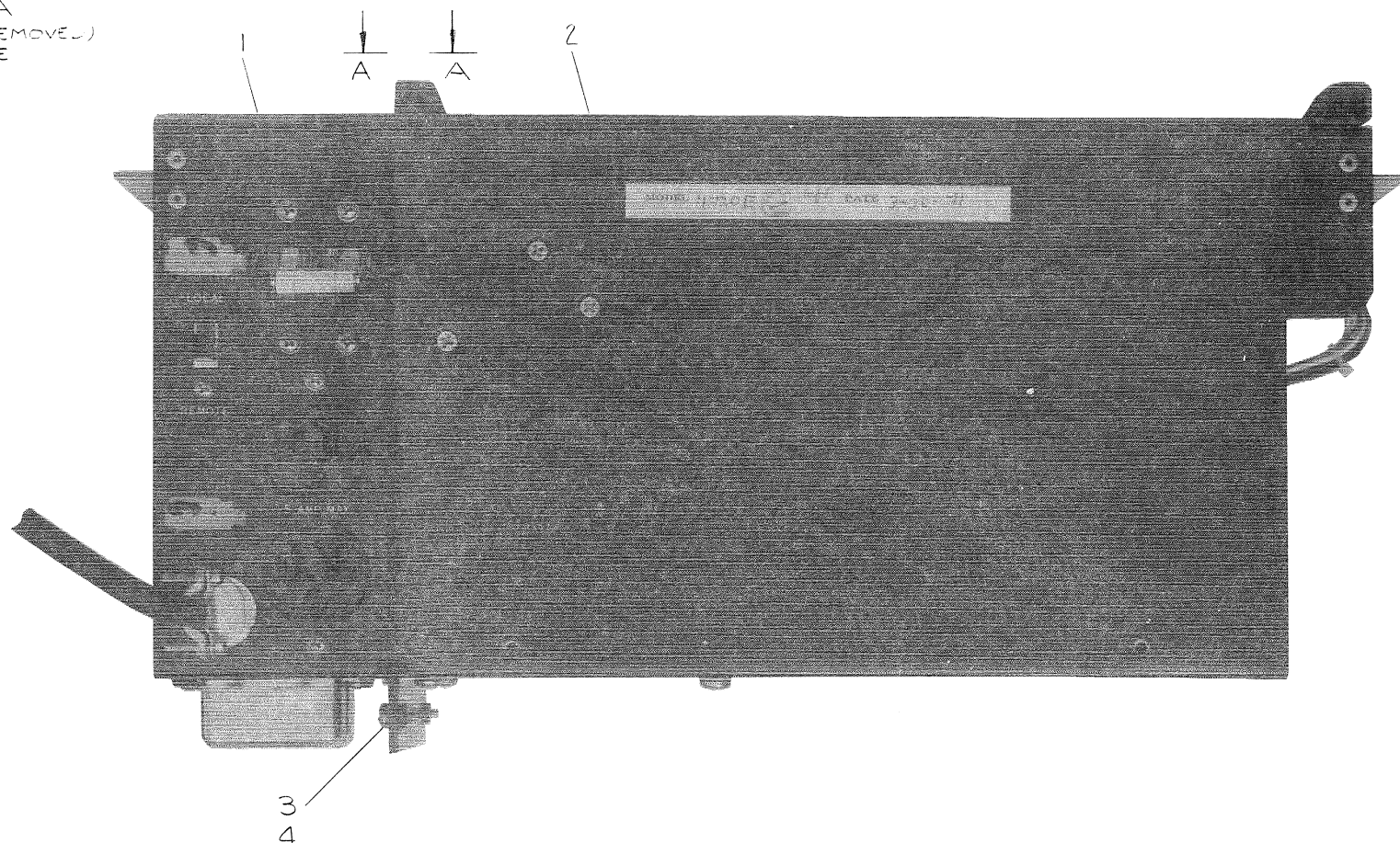
SIZE CODE
D CS
NUMBER
5408475-0-1
PRINTED CIRCUIT REV.
C

REV
H
5408475-0-1
D CS

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VIEW A-A
(WITH COVER REMOVED)
SCALE: NONE



NOTES:

- CONNECTORS MARKED J4 & P4 ARE TO BE CONNECTED BEFORE ASSEMBLING ITEM #1 TO ITEM #2.
- FOR DWG INDEX LIST REFER TO DWG D-DI-H720-E-2.

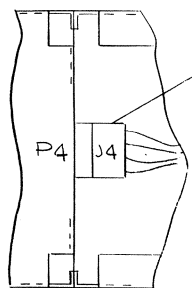
REV.	CHANGE NO.	CHK.

FIRST USED ON OPTION/MODEL
PDP 11

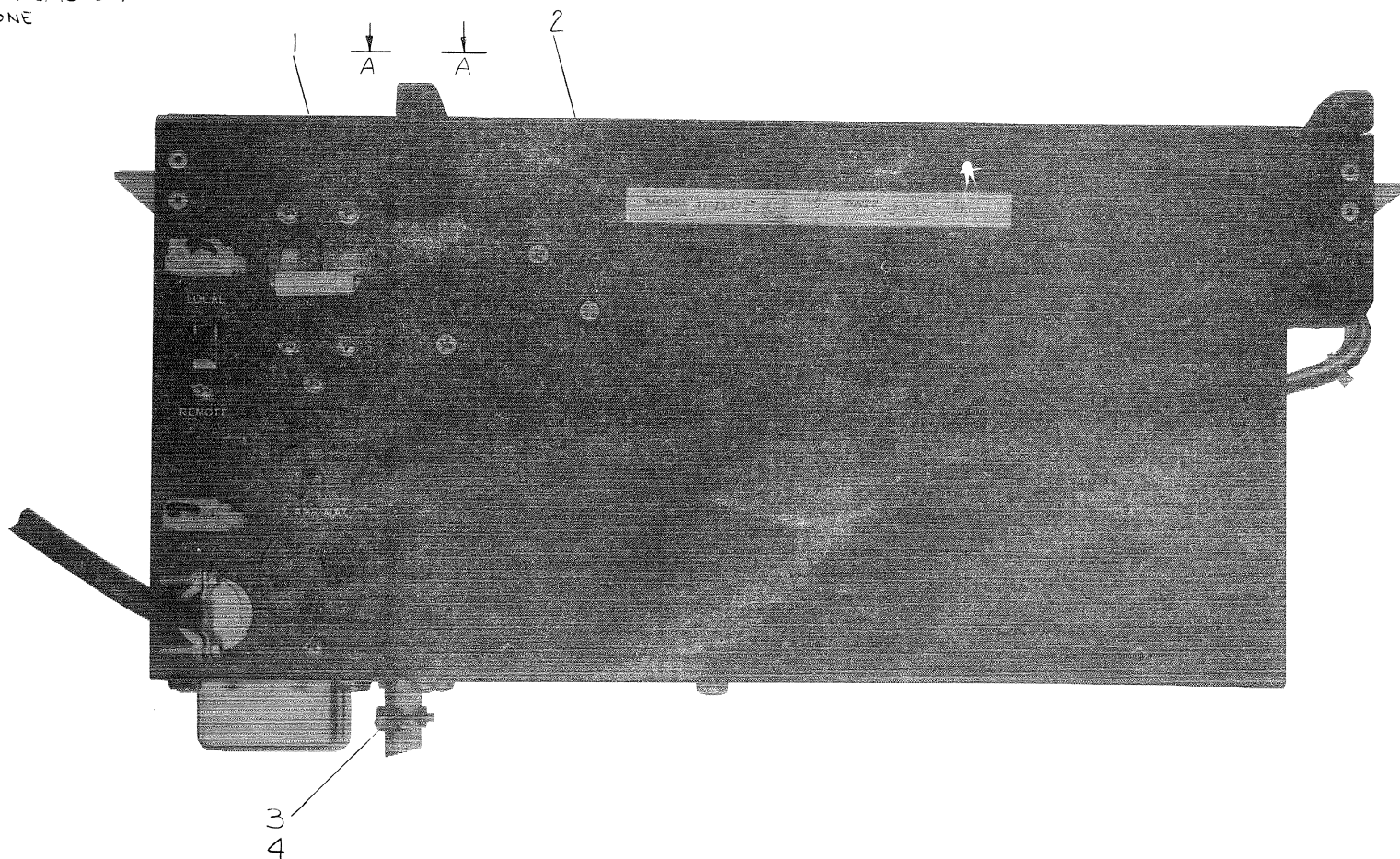
DO NOT SCALE DRAWING			
UNLESS OTHERWISE SPECIFIED			
DIMENSION IN INCHES			
TOLERANCES			
DECIMALS	FRACTIONS	ANGLES	
± .005	± 1/64	± 0°30'	
FINAL SURFACE QUALITY			
REMOVE BURRS AND BREAK SHARP CORNERS			
MATERIAL			
FINISH			

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN. <i>of Hander</i> DATE <i>4/3/71</i>			
CHK'D <i>of Hander</i> DATE <i>5/20/71</i>			
ENG. <i>RB Lari</i> DATE <i>5/25/71</i>			
PROJ. ENG. <i>CR B Lari</i> DATE <i>5/25/71</i>			
PROD. <i>W. Call</i> DATE <i>5/26/71</i>			
NEXT HIGHER ASSY A-ML-H720-E			
SCALE			
SHEET 1 OF 1			
TITLE POWER SUPPLY H720-E			
SIZE/CODE DUAH720-E-0			
NUMBER REV.			

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VIEW A-A
(WITH COVER REMOVED)
SCALE: NONE



NOTES:

- CONNECTORS MARKED J4 & P4 ARE TO BE CONNECTED BEFORE ASSEMBLING ITEM #1 TO ITEM #2.
- FOR DWG INDEX LIST REFER TO DWG # D-DI-H720-F-2.

REV.	CHANGE NO.

DEC FORM NO. 100

FIRST USED ON OPTION/MODEL
PDP 11

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN. <i>E. Lander</i> DATE <i>11/1/71</i>		TITLE	
CHK'D. <i>J. T. Gm</i> DATE <i>11/1/71</i>		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	
ENG. <i>E. R. Blm</i> DATE <i>11/1/71</i>		POWER SUPPLY	
PROJ. ENG. <i>E. R. Blm</i> DATE <i>11/1/71</i>		H720-F	
PROD. <i>A. L. Cull</i> DATE <i>11/1/71</i>		SIZE/CODE NUMBER REV.	
NEXT HIGHER ASSY A-ML-H720-F		DUAH720-F-0	
SCALE <i>1"=1"</i>		DIST. <i>1</i>	
SHEET <i>1</i> OF <i>1</i>			

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3/15
D CS H720-E-1
NUMBER

FOR CIRCUIT SCHEMATIC
SEE DWG# D-CS-5409267-0-1

H720 PWR REGULATOR BD
5409267
TBI

8 AC LO (L)
DC LO (L)
-15V
+8V
LTCL
-25V
GND
+5V

8 8
J1 P1

GND
+5V

YEL

VIO

ORN

GRY

RED

BLU

BLK

WHT

P4

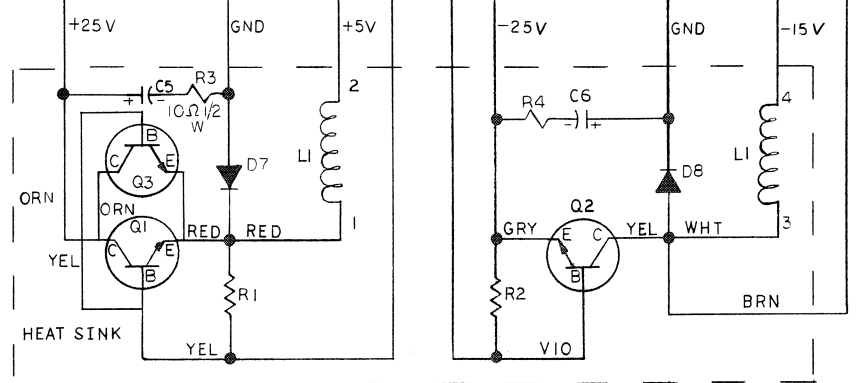
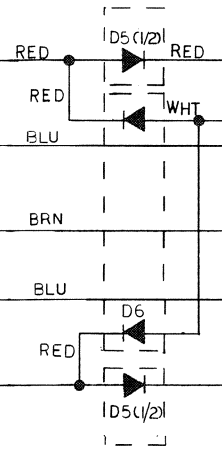
1 BLK
2 BLK
3 BLK
4 BLK
5 BLK
6 BLK
7 BLK
8 BLK
9
0

J5

1 TO P.S.
2
3 FAN
4 FAN
5 FAN
6 FAN
7 FROM P.S.
8
0

S2

T1
MMC-4030

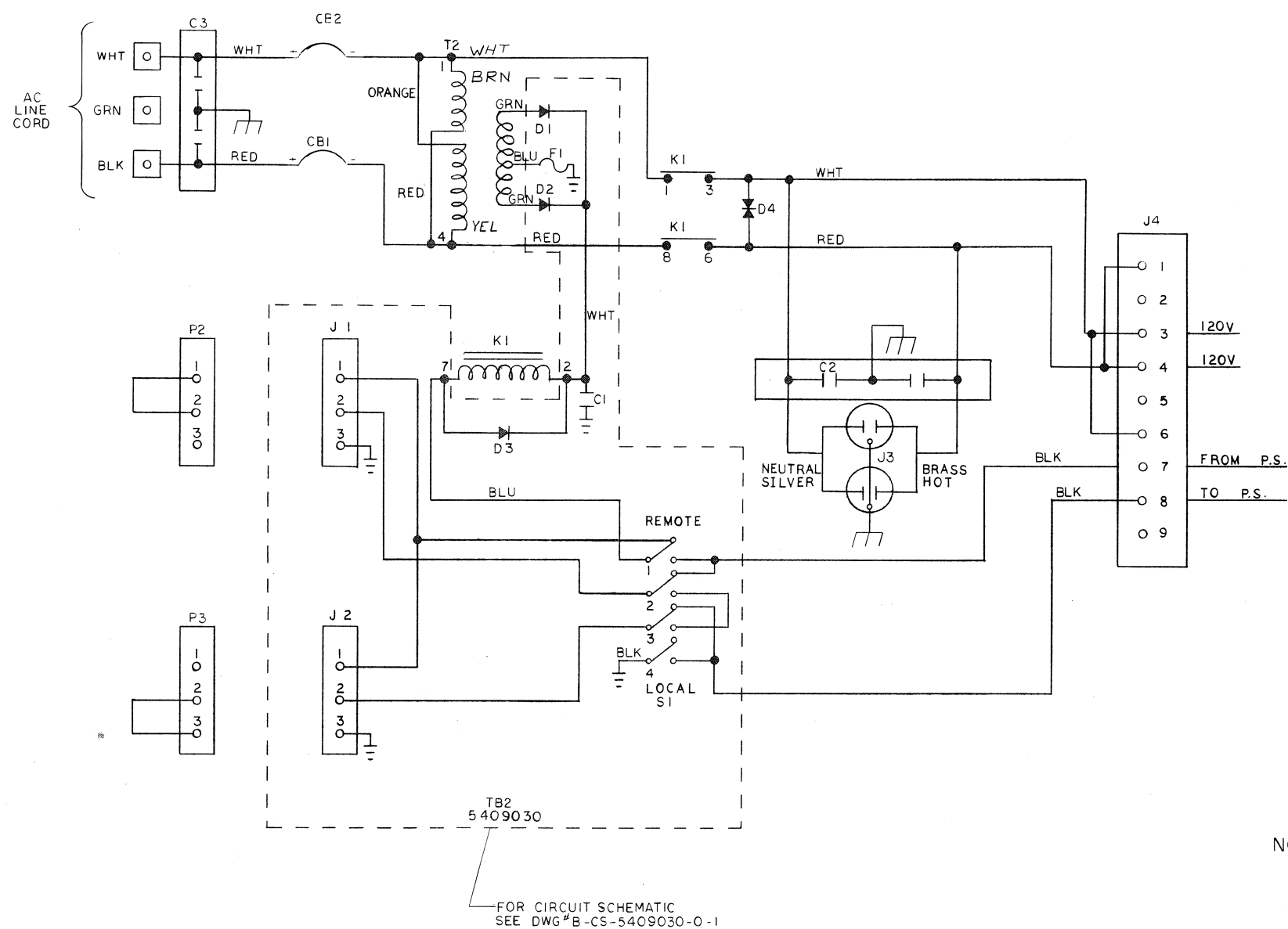


C8	CAP. .01 MFD 100V DISK	1001610
TB2	SWITCH BOARD ASSY	5409030
CB1, CB2	CIRCUIT BREAKER	1210191-0
T1	TRANSFORMER	1610284
T2	TRANSFORMER	1610150-0
S2	SWITCH THERMAL	1210199
R3, R4	RES 10Ω 1/2W ±5%	1300168
P4	MATE-N-LOCK	1209351-09
P3	JUMPER	7007006-1
P2	JUMPER	7007006-2
K1	RELAY	1210277
D4	THYRACITOR	1110181
J5	MATE-N-LOCK	1209340-01
TBI	H720 PWR REG BD	5409267
J3	AC DUPLEX OUTLET	1205351
D7, D8	DIODE 1N3899	1109781
D5, D6	DIODE BRIDGE DM15	1105799
Q1, Q2, Q3	TRANSISTOR 2N5301	1509737
R1, R2	RES 2721W 5% CC	1302558
C5, C6	CAP 1 MFD 150V	1000063
C4, C7	CAP. 22000 MFD 50V	1009189
C2, C3	CAP. 2X.1MFD 1000V	1002153
P1	CONNECTOR 1480460-0	120934001
J4	MATE-N-LOCK	1209350-09
L1	TRANSFORMER COIL	1609762

REF DESIGNATION DESCRIPTION PART NO

SHEET 1 OF 2

REV	CHG	NO	REV	DATE	TRANSISTOR & DIODE CONVERSION CHART				TITLE	SIZE	CODE	NUMBER	REV.
					DEC	EIA	DEC	EIA					
1				12-1-76	2N5301	SAME			digital	D	CS	H720-E-1	
2				12-1-76	1N3899	SAME			EQUIPMENT				
3				12-1-76					CORPORATION				
4				12-1-76					MAYNARD, MASSACHUSETTS				
5				12-1-76					PRINTED CIRCUIT REV.				



NOTES:

J4 SHOWN WIRED FOR 117 V INPUT;
FOR 102 V INPUT TAKE JUMPER FROM
J4-1 AND INSERT IT IN J4-2 AND
TAKE JUMPER FROM J4-6 AND INSERT
IT IN J4-5.

SHEET 2 OF 2

REVISIONS		
CHK	CHG NO.	REV.
	1	1
	2	2

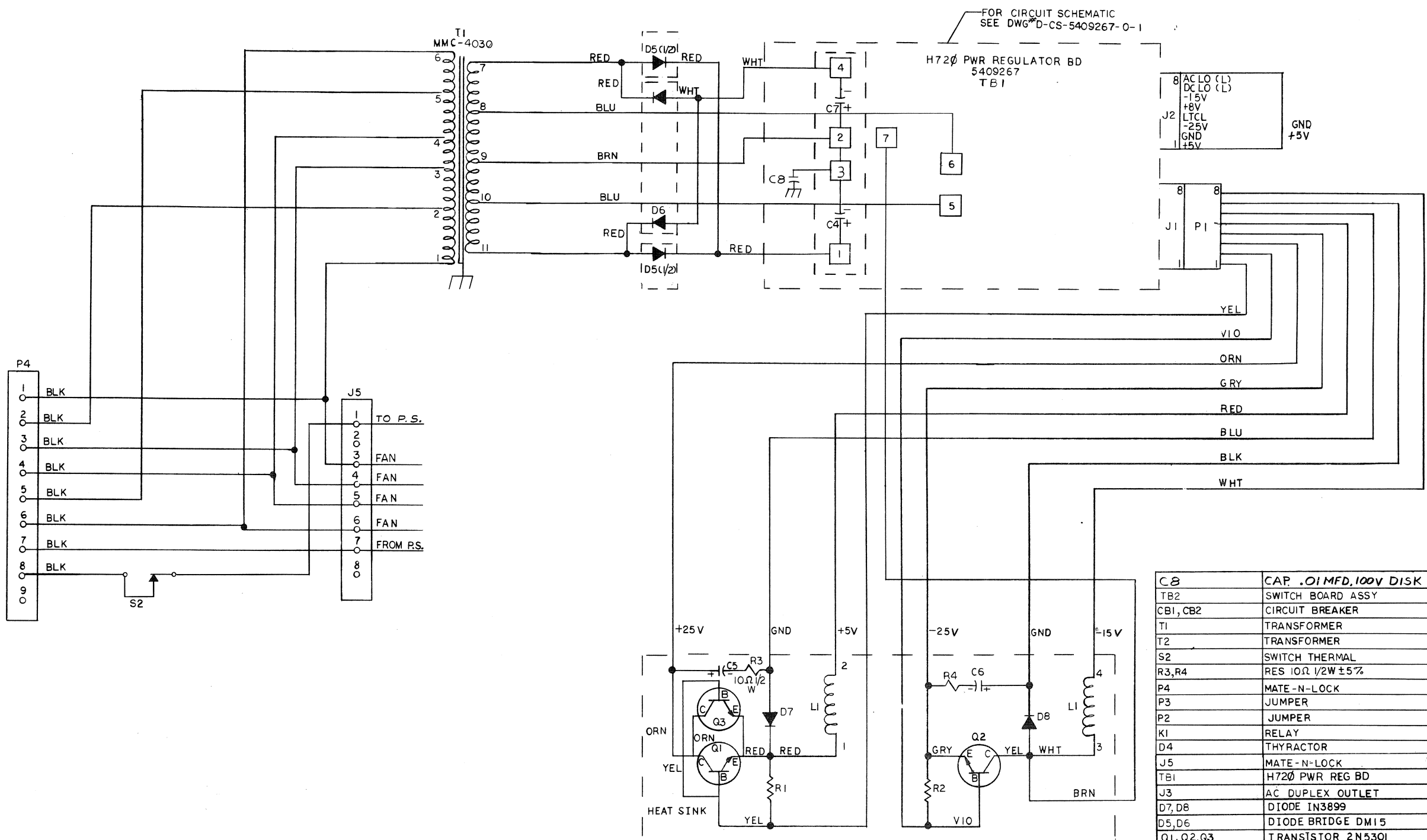
DRN.	DATE
K KAT:111K	10-13-12
CHK'D	DATE
<i>[Signature]</i>	5-25-12
ENG.	DATE
	7-2-12
PROD.	DATE
<i>[Signature]</i>	5/26/12

[illegible]

digital
EQUIPMENT
CORPORATION
MAYNARD, MASSACHUSETTS

TITLE		POWER SUPPLY H720-E	
SIZE D	CODE CS	NUMBER H720-E-1	
PRINTED CIRCUIT REV.			

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REF DESIGNATION	DESCRIPTION	PART NO
C8	CAP .01MFD, 100V DISK	10010610
IB2	SWITCH BOARD ASSY	5409030
CBI, CB2	CIRCUIT BREAKER	1210191-1
T1	TRANSFORMER	1610284
T2	TRANSFORMER	1610150-0
S2	SWITCH THERMAL	1210199
R3, R4	RES 10 Ω 1/2W \pm 5%	1300168
P4	MATE - N - LOCK	1209351-09
P3	JUMPER	7007006-1
P2	JUMPER	7007006-2
K1	RELAY	1210277
D4	THYRACITOR	1102915
J5	MATE - N - LOCK	1209340-09
TBI	H720 PWR REG BD	5409267
J3	AC DUPLEX OUTLET	9008856
D7, D8	DIODE IN3899	1109781
D5, D6	DIODE BRIDGE DM15	1105799
Q1, Q2, Q3	TRANSISTOR 2N5301	1509737
R1, R2	RES 27 Ω 1/2W 5% CC	1302558
C5, C6	CAP 1MFD 150V	1000063
C4, C7	CAP. 22000 MFD 50V	1009189
C2, C3	CAP. 2X.1MFD 1000V	1002153
PI	CONNECTOR 1480460-0	120934001
J4	MATE - N - LOCK	1209350-09
L1	TRANSFORMER COIL	1609762

SHEET 1 OF 2

REF DESIGNATION

DESCRIPTION


PART NO

DRN. K. ERSIAK	DATE 10-13-70	TRANSISTOR & DIODE CONVERSION CHART						 DIGITAL EQUIPMENT CORPORATION <small>MAYNARD, MASSACHUSETTS</small>	TITLE POWER SUPPLY H720-F			
CHK'D	DATE 11-2-70	DEC	EIA	DEC	EIA				SIZE D	CODE CS	NUMBER H720-F-1	REV. <div style="border: 1px solid black; width: 100px; height: 20px;"></div>
ENG.	DATE 1-14-71	2N5301	SAME									
PROD.	DATE 3/26/71	1N3899	SAME									
PRINTED CIRCUIT REV.												

REV	NUMB-q	CS	D
	H720-F-1	SIZE	CODE



J4 SHOWN WIRED FOR 235V INPUT;
FOR 220V INPUT TAKE JUMPER FROM
J4-1 AND INSERT IT IN J4-2 FOR
205V INPUT TAKE JUMPER FROM J4-1-
AND INSERT IT IN J4-2 AND TAKE
JUMPER FROM J4-6 AND INSERT IT IN
J4-5.

REVIEWS CHK CHG NO. REV.	DRN E. KUYIAN CHK'D 5-20-77 ENG. 5-21-77 PROD. 5-21-77	DATE 10/13/70 DATE 5-20-77 DATE 5-21-77 DATE 5-21-77	TRANSISTOR & DIODE CONVERSION CHART				 digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	TITLE POWER SUPPLY H720 F	
			DEC	EIA	DEC	EIA		SIZE D	CODE CS