

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET

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DRAWING DIRECTORY
 CIRCUIT SCHEMATIC
 PWR CONTROL BOARD
 CIRCUIT SCHEMATIC
 UNIT ASSEMBLY H742
 UNIT ASSEMBLY (PL)

SEQUENCE

B-DD-H742-Ø
D-CS H742-Ø-1
E-IA 5409730-0-0
C-CS 5409730-0-1
E-UA-H742-Ø-Ø
A-PL-H742-Ø-Ø

SEQUENCE

MFG SET
TEST PROCEDURE
MFG SPEC.
PACKAGING INSTRUCTION

A-SP-H742 ϕ -3
A-SP-H742- ϕ -8
A-PI-3700073-0-0

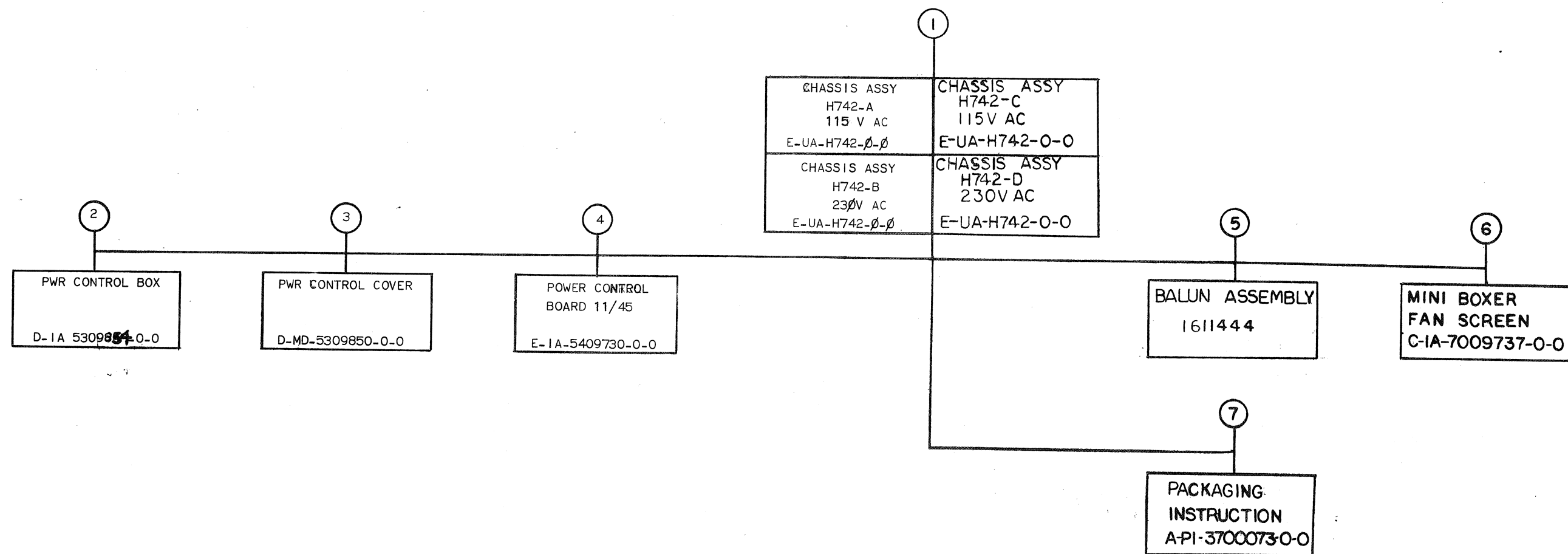
UNIT VARIATIONS

PRINT SET TYPE

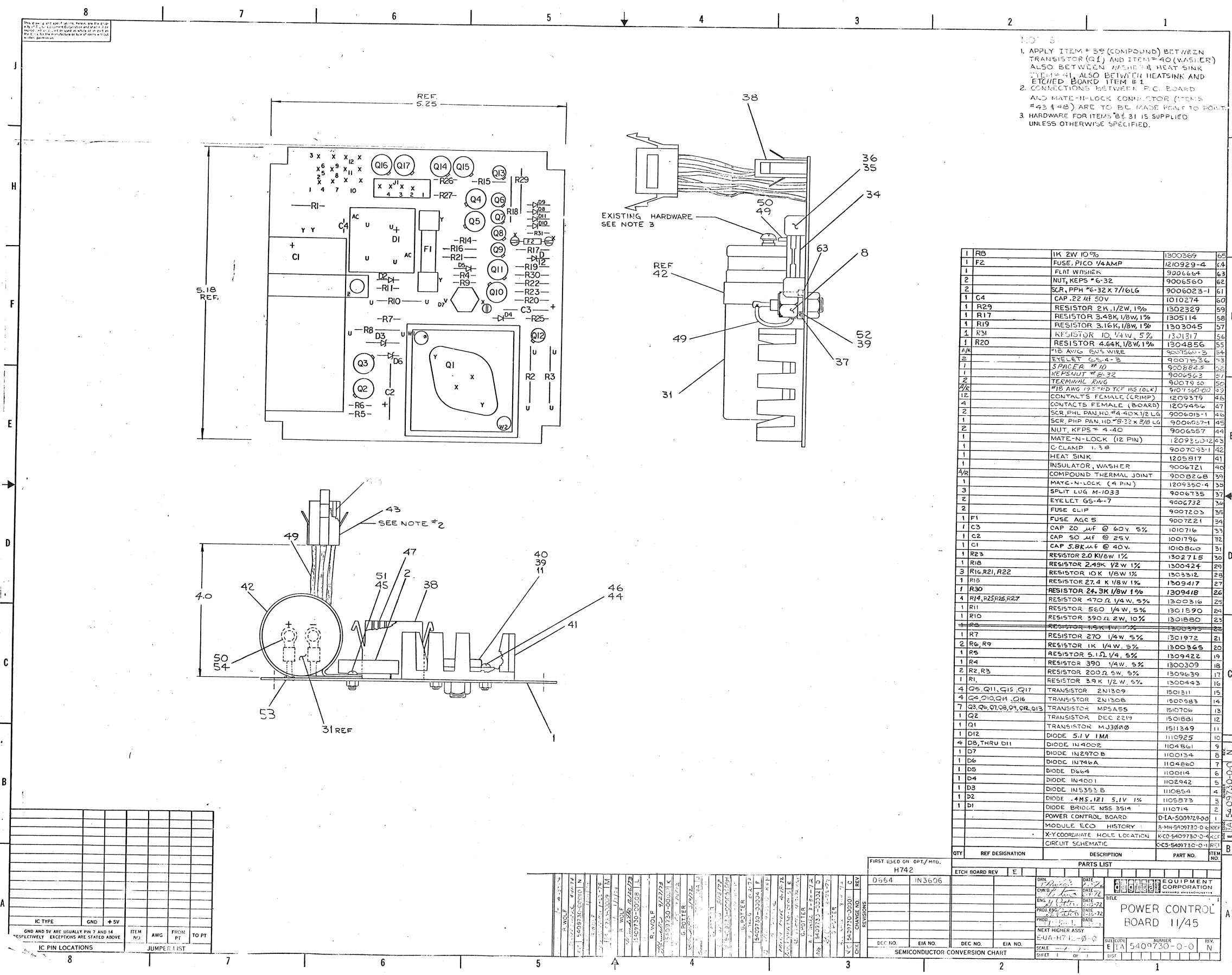
[illegible]

REVISIONS													USED ON OPTION/MODEL		DRN. D. FONTAINE		DATE 13172		TITLE					
DATE	CHG. NO.	REV													CHK'D	DATE	CHASSIS ASSY H742		SIZE CODE		NUMBER		REV	
7-72	H742-2	A											11/45		<i>[Signature]</i>	2-4-72								
7-72	H742-3	B													PROJ ENG.	DATE								
8-72	H742-4	C													<i>[Signature]</i>	2-4-72								
8-72	H742-5	D													PROD.	DATE								
10-72	H742-7	E													<i>[Signature]</i>	2-24-72								
11-72	H742-8	F													FIELD SERV.	DATE								
12-72	H742-11	H													<i>[Signature]</i>	2-7-72								
2-73	H742-12	J															SIZE	CODE						
2-73	H742-13	K															B	DD						
2-73	H742-14	L																						
4-73	H742-15	M																						
4-73	H742-16	N																						
5-73	H742-17	P																						
6-73	H742-18	R																						
12-73	H742-19	S																						
3-74	H742-20	T																						
4-74	H742-21	U																						
															SHEET	1	OF	3	DIST					

DRB 106



[illegible]



- NOTES:
1. APPLY ITEM #39 (COMPOUND) BETWEEN TRANSISTOR (Q1) AND ITEM #40 (WASHER) ALSO BETWEEN WASHER & HEAT SINK ITEM #41, ALSO BETWEEN HEATSINK AND ETCHED BOARD ITEM #1.
 2. CONNECTIONS BETWEEN P.C. BOARD AND MATE-N-LOCK CONNECTOR (ITEMS #43 & 44) ARE TO BE MADE POINT TO POINT.
 3. HARDWARE FOR ITEMS #43 & 44 IS SUPPLIED UNLESS OTHERWISE SPECIFIED.

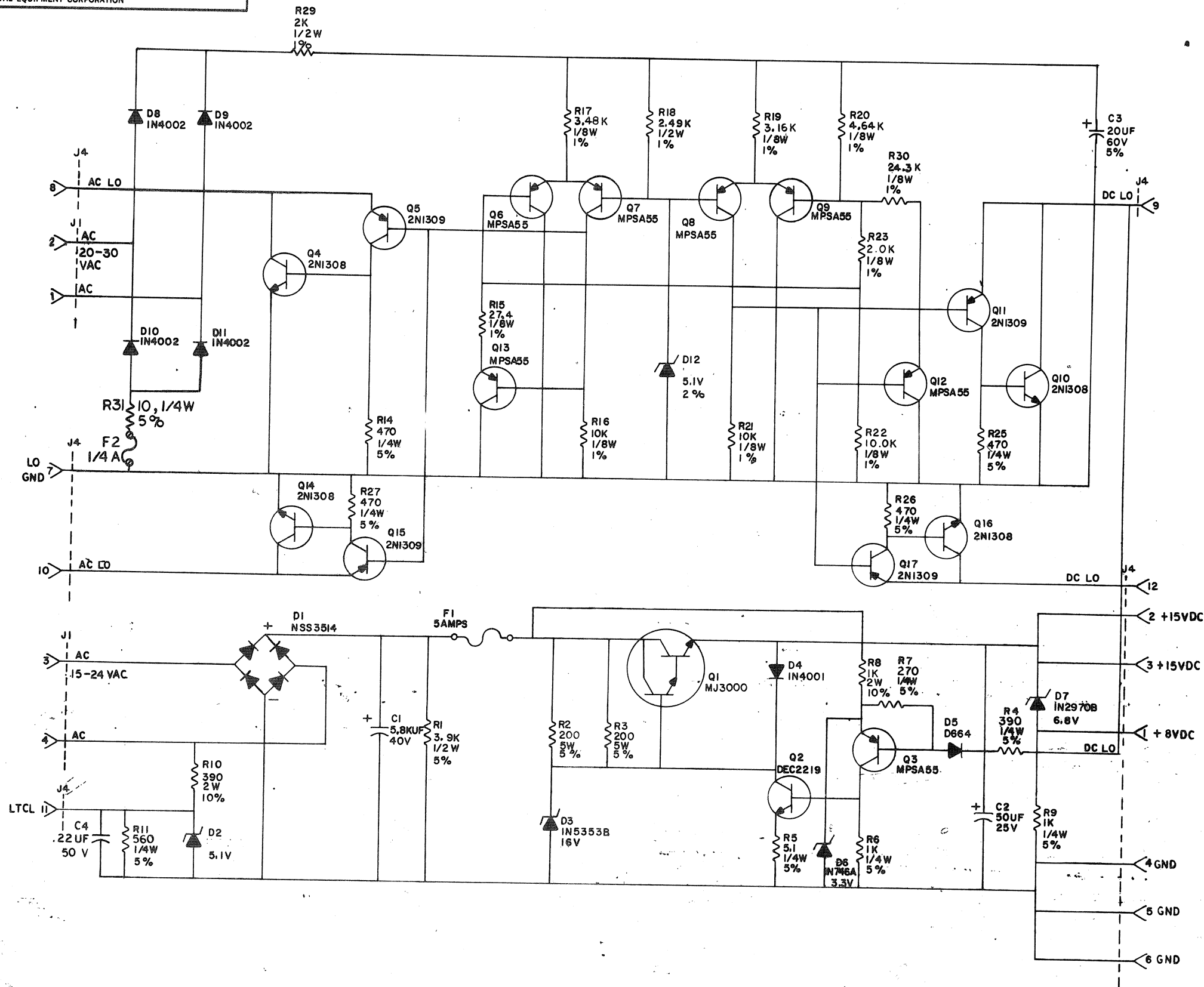
QTY	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
1	R8	1K 2W 10%	1300369	65
1	F2	FUSE, PICO 1/4AMP	1210929-4	64
1		FLAT WASHER	9006664	63
2		NUT, KEPS #6-32	9006560	62
2		SCR, PPH #6-32 X 7/16LG	9006023-1	61
1	C4	CAP, 22UF 50V	1010274	60
1	R29	RESISTOR 2K, 1/2W, 1%	1302329	59
1	R17	RESISTOR 3.48K, 1/8W, 1%	1305114	58
1	R19	RESISTOR 3.16K, 1/8W, 1%	1303045	57
1	R31	RESISTOR 10, 1/4W, 5%	1301317	56
1	R20	RESISTOR 4.64K, 1/8W, 1%	1304856	55
NR		11B AWG 60% WIRE	9007560-3	54
2		EYELET GS-4-3	9007534	53
1		SPACER #10	9006843	52
1		KEPSNUT #6-32	9006562	51
2		TERMINAL RING	9007930	50
1/2		11B AWG 125-125 TCF INS (OLC)	9107360-01	49
12		CONTACTS FEMALE (CRIMP)	1209379	48
4		CONTACTS FEMALE (BOARD)	1209456	47
2		SCR, PHL PAN HD #4-40 X 1/2 LG	9006015-1	46
1		SCR, PHL PAN HD #3-2 X 3/8 LG	9006037-1	45
2		NUT, KEPS #4-40	9006557	44
1		MATE-N-LOCK (12 PIN)	1209310-12	43
1		C-CLAMP 1.38	9007093-1	42
1		HEAT SINK	1205817	41
1		INSULATOR, WASHER	9006721	40
1/2		COMPOUND THERMAL JOINT	9006828	39
1		MATE-N-LOCK (4 PIN)	1209350-4	38
3		SPLIT LUG M-1033	9006735	37
2		EYELET GS-4-7	9006732	36
2		FUSE CLIP	9007203	35
1	F1	FUSE AGC 5	9007221	34
1	C3	CAP 20 uF @ 60V 5%	1010716	33
1	C2	CAP 50 uF @ 25V	1001796	32
1	C1	CAP 5.8K uF @ 40V	1010860	31
1	R23	RESISTOR 2.0K 1/8W 1%	1302715	30
1	R18	RESISTOR 2.49K 1/2W 1%	1300424	29
3	R16, R21, R22	RESISTOR 10K 1/8W 1%	1303312	28
1	R15	RESISTOR 27.4 K 1/8W 1%	1309417	27
1	R30	RESISTOR 24.3K 1/8W 1%	1309418	26
4	R14, R25, R26, R27	RESISTOR 470 OH 1/4W 5%	1300316	25
1	R11	RESISTOR 560 OH 1/4W 5%	1301820	24
1	R10	RESISTOR 390 OH 1/2W 10%	1301880	23
1	R9	RESISTOR 15K 1/4W 1%	1300592	22
1	R7	RESISTOR 270 OH 1/4W 5%	1301972	21
2	R6, R9	RESISTOR 1K 1/4W 5%	1300365	20
1	R5	RESISTOR 5.1K 1/4W 5%	1309422	19
1	R4	RESISTOR 390 OH 1/4W 5%	1300309	18
2	R2, R3	RESISTOR 200 OH 5W 5%	1309639	17
1	R1	RESISTOR 3.9K 1/2W 5%	1300443	16
4	Q5, Q11, Q15, Q17	TRANSISTOR 2N1309	1501311	15
4	Q2, Q10, Q14, Q16	TRANSISTOR 2N1306	1500583	14
7	Q3, Q6, Q12, Q13, Q18, Q19	TRANSISTOR MPS455	1501046	13
1	Q2	TRANSISTOR DEC 2219	1501881	12
1	Q1	TRANSISTOR MJ3900	1511349	11
1	D12	DIODE 5.1V 1MA	1110925	10
4	D8, THRU D11	DIODE IN4002	1104861	9
1	D7	DIODE IN2970 B	1100134	8
1	D6	DIODE IN746A	1104860	7
1	D5	DIODE D664	1100114	6
1	D4	DIODE IN4001	1102942	5
1	D3	DIODE IN5353 B	1100554	4
1	D2	DIODE .4MS, 121 5.1V 1%	1105873	3
1	D1	DIODE BRIDGE MSS 3514	1110714	2
		POWER CONTROL BOARD	D-1A-5009730-00	1
		MODULE ECO HISTORY	3-MH-5009730-00	
		X-Y COORDINATE HOLE LOCATION	KC0-5409730-00	
		CIRCUIT SCHEMATIC	CCS-5409730-00	

IC TYPE	QND	+5V	ITEM NO.	AWG	FROM PT	TO PT
IC PIN LOCATIONS						
JUMPER LIST						

REV	DESCRIPTION	DATE	BY	CHKD
1	INITIAL	11/12/72	WOLF	
2	REVISED	11/15/72	WOLF	
3	REVISED	11/15/72	WOLF	
4	REVISED	11/15/72	WOLF	
5	REVISED	11/15/72	WOLF	
6	REVISED	11/15/72	WOLF	
7	REVISED	11/15/72	WOLF	
8	REVISED	11/15/72	WOLF	
9	REVISED	11/15/72	WOLF	
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13	REVISED	11/15/72	WOLF	
14	REVISED	11/15/72	WOLF	
15	REVISED	11/15/72	WOLF	
16	REVISED	11/15/72	WOLF	
17	REVISED	11/15/72	WOLF	
18	REVISED	11/15/72	WOLF	
19	REVISED	11/15/72	WOLF	
20	REVISED	11/15/72	WOLF	
21	REVISED	11/15/72	WOLF	
22	REVISED	11/15/72	WOLF	
23	REVISED	11/15/72	WOLF	
24	REVISED	11/15/72	WOLF	
25	REVISED	11/15/72	WOLF	
26	REVISED	11/15/72	WOLF	
27	REVISED	11/15/72	WOLF	
28	REVISED	11/15/72	WOLF	
29	REVISED	11/15/72	WOLF	
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36	REVISED	11/15/72	WOLF	
37	REVISED	11/15/72	WOLF	
38	REVISED	11/15/72	WOLF	
39	REVISED	11/15/72	WOLF	
40	REVISED	11/15/72	WOLF	
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95	REVISED	11/15/72	WOLF	
96	REVISED	11/15/72	WOLF	
97	REVISED	11/15/72	WOLF	
98	REVISED	11/15/72	WOLF	
99	REVISED	11/15/72	WOLF	
100	REVISED	11/15/72	WOLF	

FIRST USED ON OPT/HRD. H742		ETCH BOARD REV E		DATE 11/15/72		BY WOLF		CHKD	
D554		IN3606		DATE 11/15/72		BY WOLF		CHKD	
DEC NO.		EIA NO.		DEC NO.		EIA NO.		SCALE	
SEMICONDUCTOR CONVERSION CHART		SHEET 1 OF 1		TITLE		POWER CONTROL BOARD 11/45		REV. N	
EQUIPMENT CORPORATION		EQUIPMENT CORPORATION		EQUIPMENT CORPORATION		EQUIPMENT CORPORATION		EQUIPMENT CORPORATION	

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REV	CHG	NO.	REV.
1	00001	C	
2	00002	D	
3	00003	E	
4	00004	F	
5	00005	G	
6	00006	H	
7	00007	I	
8	00008	J	
9	00009	K	
10	00010	L	
11	00011	M	
12	00012	N	
13	00013	O	
14	00014	P	
15	00015	Q	
16	00016	R	
17	00017	S	
18	00018	T	
19	00019	U	
20	00020	V	
21	00021	W	
22	00022	X	
23	00023	Y	
24	00024	Z	

DEC FORM NO. DRG 102

DRN. S. COOPER
 CHK'D. [Signature]
 ENG. [Signature]
 DATE 2-1-72

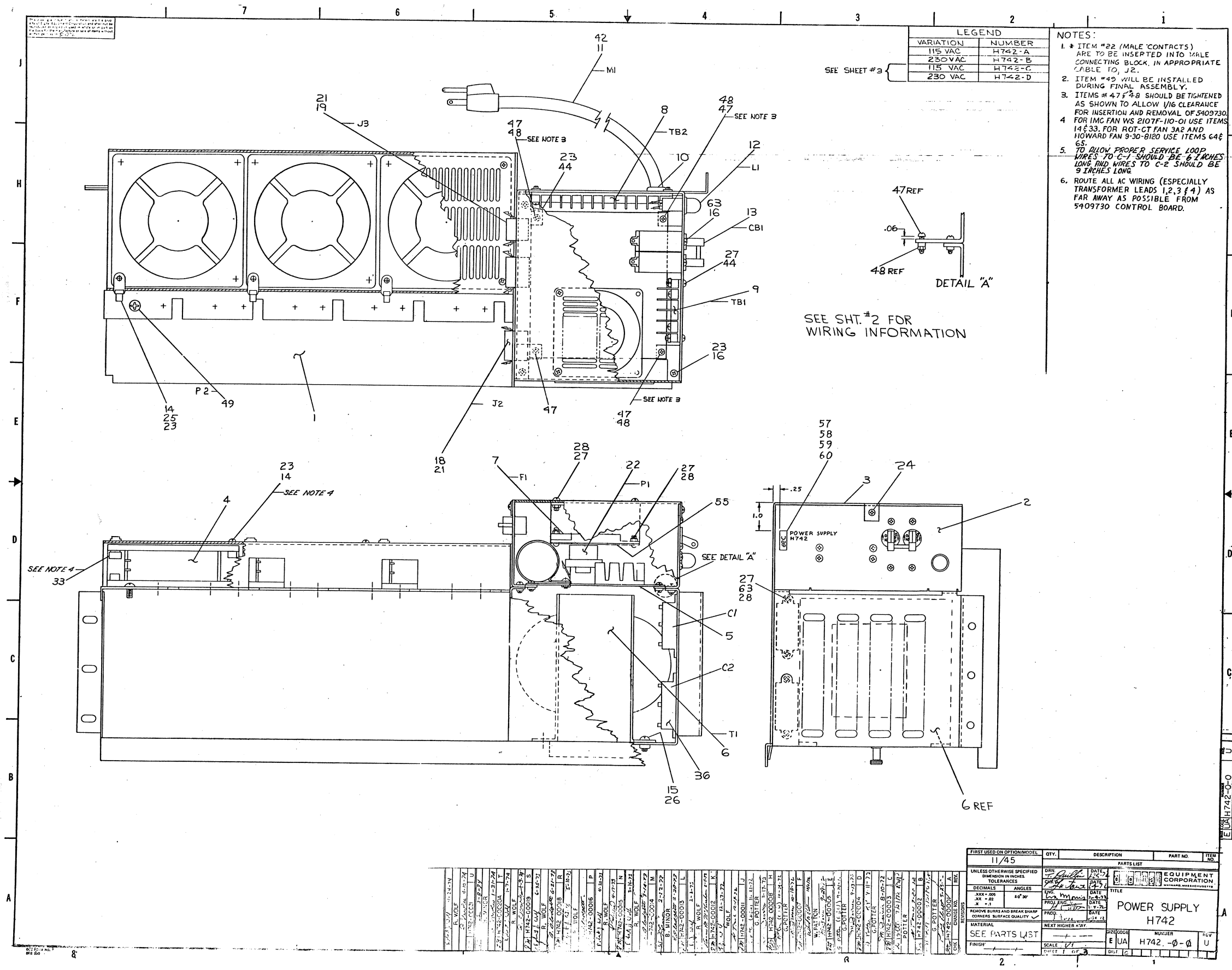
DATE 2-1-72
 DATE 3-1-72
 DATE 3-1-72

TRANSISTOR & DIODE CONVERSION CHART			
DEC2219	2N2219	IN9231	
2N1308	SAME	IN5353B	
MPSA55		IN751A	SAME
MJ3000		IN4001	SAME
2N1309	SAME	IN2970B	
IN4002		IN746A	
D664	IN3606		

digital
 EQUIPMENT CORPORATION
 MAYNARD, MASSACHUSETTS

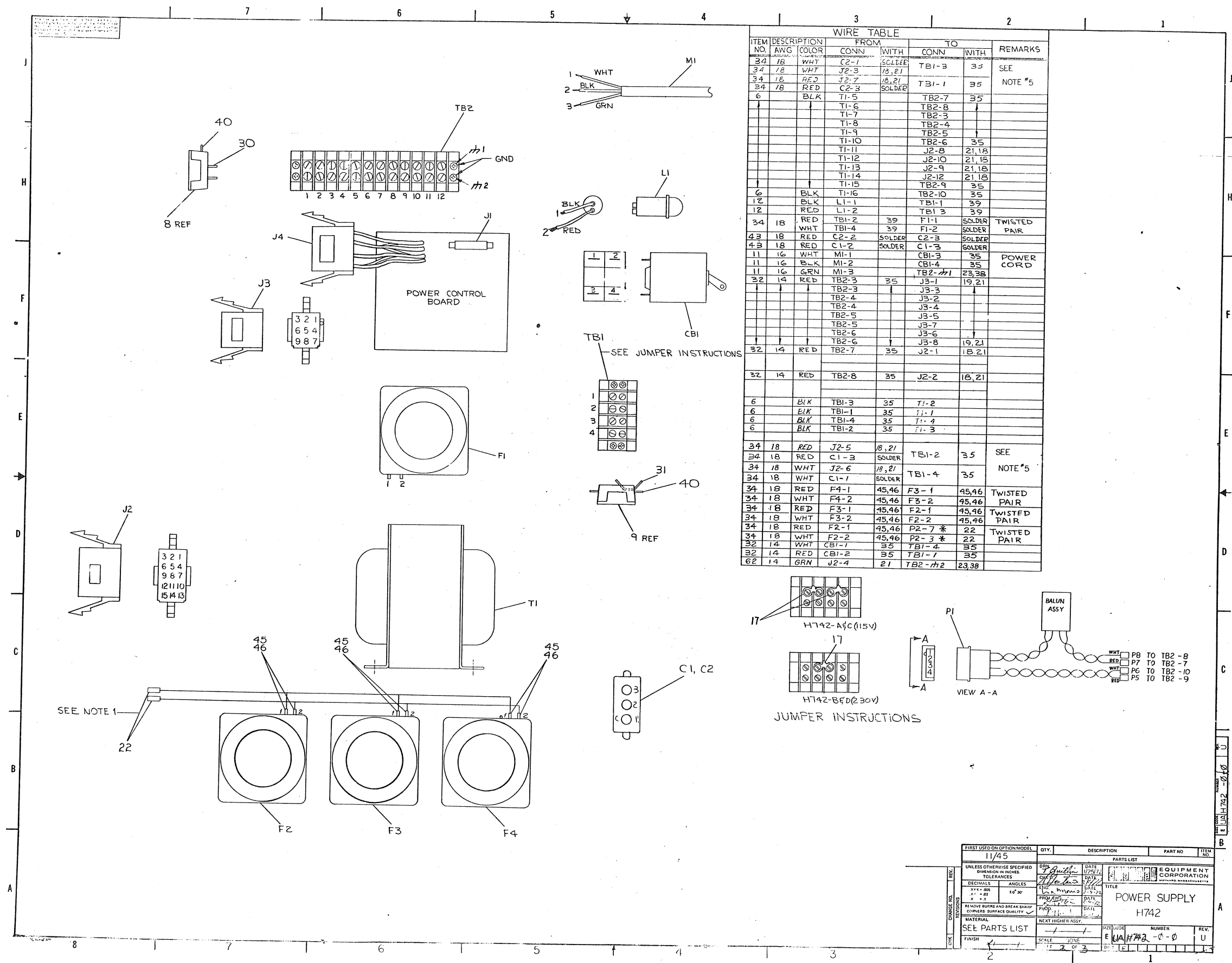
TITLE POWER CONTROL BD.
 SIZE C CODE CS NUMBER 5409730-0-1 REV. N
 PRINTED CIRCUIT REV. E

REV. N
 NUMBER 5409730-0-1
 SIZE CODE C CS

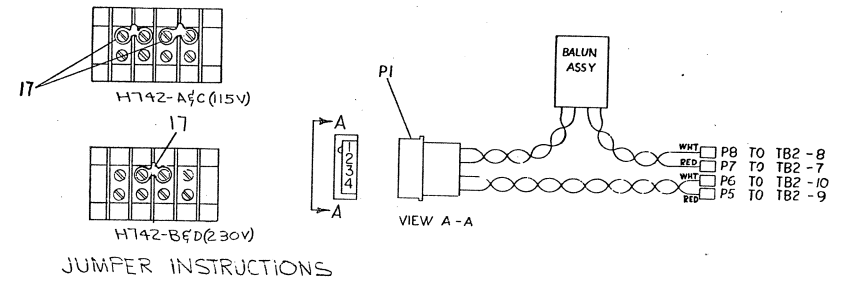


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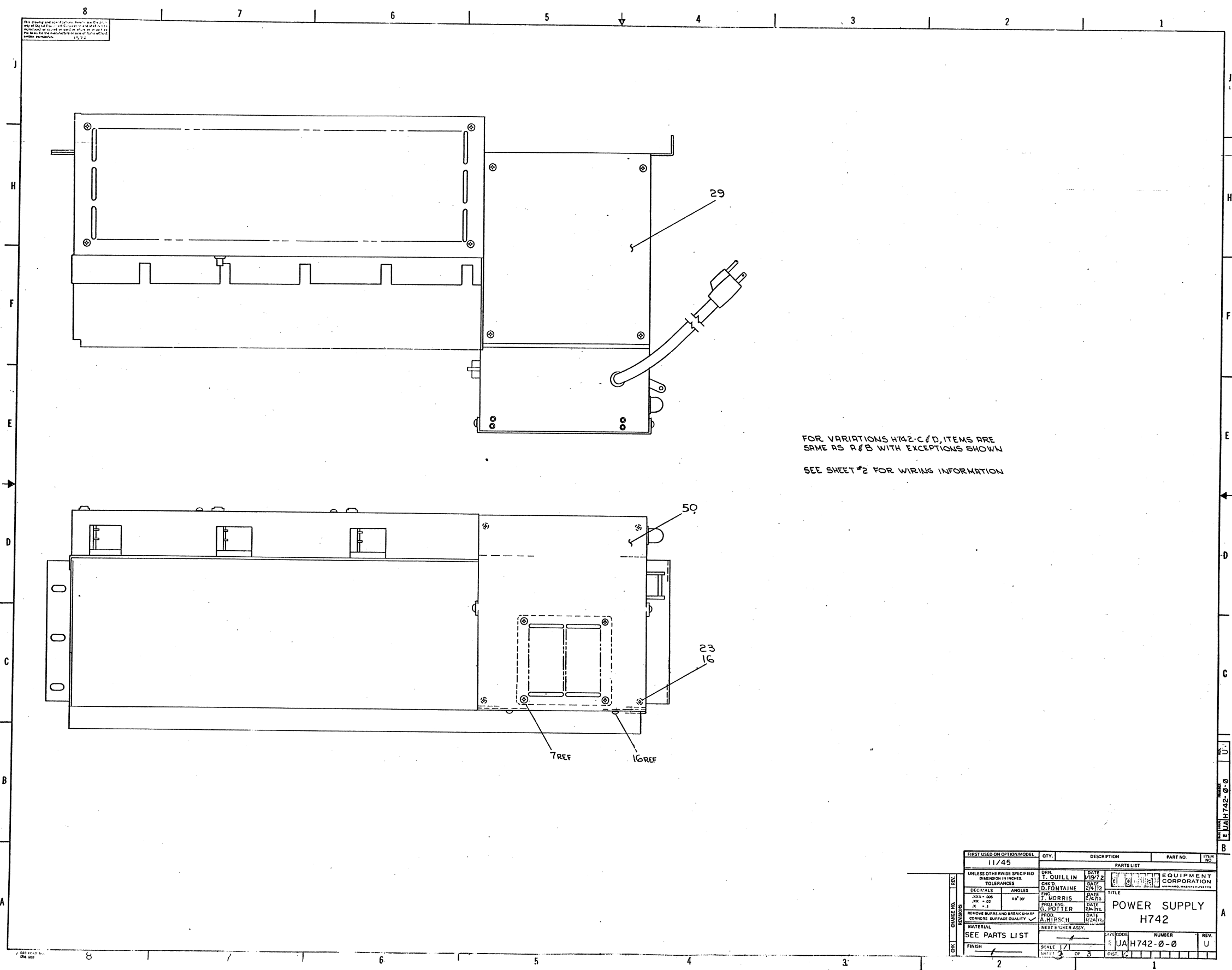
FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES		PARTS LIST			
DECIMALS	ANGLES	DATE	DATE	EQUIPMENT CORPORATION	
3/32" = .009	1/2° = .009	DATE	DATE	TITLE	
1/16" = .006	1/4° = .006	DATE	DATE	POWER SUPPLY	
1/32" = .003	1/8° = .003	DATE	DATE	H742	
1/64" = .001	1/16° = .001	DATE	DATE	H742, -0-0	
MATERIAL		FINISH			
SEE PARTS LIST		SCALE			
		SHEET 1 OF 3			



WIRE TABLE									
ITEM NO.	DESCRIPTION	AWG	COLOR	FROM		TO		REMARKS	
				CONN.	WITH	CONN.	WITH		
34	18	WHT		C2-1	SOLDER	TB1-3	35	SEE NOTE #5	
34	18	WHT		J2-3	18,21				
34	18	RED		J2-7	18,21				
34	18	RED		C2-3	SOLDER	TB1-1	35		
6		BLK		T1-5		TB2-7	35		
				T1-6		TB2-8			
				T1-7		TB2-3			
				T1-8		TB2-4			
				T1-9		TB2-5			
				T1-10		TB2-6	35		
				T1-11		J2-8	21,18		
				T1-12		J2-10	21,15		
				T1-13		J2-9	21,18		
				T1-14		J2-12	21,18		
				T1-15		TB2-9	35		
6		BLK		T1-16		TB2-10	35		
12		BLK		L1-1		TB1-1	39		
12		RED		L1-2		TB1-3	39		
34	18	RED		TB1-2	39	F1-1	SOLDER	TWISTED PAIR	
43	18	WHT		TB1-4	39	F1-2	SOLDER		
43	18	RED		C2-2	SOLDER	C2-3	SOLDER		
43	18	RED		C1-2	SOLDER	C1-3	SOLDER		
11	16	WHT		M1-1		CB1-3	35	POWER CORD	
11	16	BLK		M1-2		CB1-4	35		
11	16	GRN		M1-3		CB1-1	23,38		
32	14	RED		TB2-3	35	TB1-1	19,21		
				TB2-4		J3-3			
				TB2-5		J3-2			
				TB2-6		J3-4			
				TB2-7		J3-5			
				TB2-8		J3-6			
32	14	RED		TB2-9		J3-7			
				TB2-10		J3-8	19,21		
				TB2-11		J2-1	18,21		
32	14	RED		TB2-12	35	J2-2	18,21		
6		BLK		TB1-3	35	T1-2			
6		BLK		TB1-1	35	T1-1			
6		BLK		TB1-4	35	T1-4			
6		BLK		TB1-2	35	T1-3			
34	18	RED		J2-5	18,21	TB1-2	35	SEE NOTE #5	
34	18	RED		C1-3	SOLDER				
34	18	WHT		J2-6	18,21				
34	18	WHT		C1-1	SOLDER	TB1-4	35		
34	18	RED		F4-1	45,46	F3-1	45,46	TWISTED PAIR	
34	18	WHT		F4-2	45,46	F3-2	45,46		
34	18	RED		F3-1	45,46	F2-1	45,46	TWISTED PAIR	
34	18	WHT		F3-2	45,46	F2-2	45,46		
34	18	RED		F2-1	45,46	P2-7 *	22	TWISTED PAIR	
34	18	WHT		F2-2	45,46	P2-3 *	22		
32	14	WHT		CB1-1	35	TB1-4	35		
32	14	RED		CB1-2	35	TB1-1	35		
62	14	GRN		J2-4	21	TB2-11	23,38		



FIRST USED ON OPTION/MODEL		QTY.	DESCRIPTION	PART NO.	ITEM NO.
11/45					
PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES					
DECIMALS	ANGLES				
.015 - .001	± .01				
.015 - .001	± .01				
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY					
MATERIAL					
SEE PARTS LIST					
FINISH					
SCALE					
DATE					
DRAWN BY					
CHECKED BY					
APPROVED BY					
TITLE					
POWER SUPPLY					
H742					
EQUIPMENT CORPORATION					
REV.					
U					



DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY T. QUILLIN
DATE 1/19/72
ENG *B. Potter* 2/14-72
DATE 2-24-72
CHECKED D. FONTAINE
DATE 1/26/72
PROD *B. Potter*
DATE 2-24-72
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	E-IA-5309755-0-0	CHASSIS
2	D-IA-5309854-0-0	CONTROL BOX POWER
3	D-MD-5309850-0-0	POWER CONTROL COVER
4	1209403-1	FAN, BOXER
5	5409730-0-0	POWER CONTROL BOARD
6	16-10857	XMFR
7	1210719	FAN PFWGE, BOXER
8	9006916	JONES STRIP (12 CONN) 540
9	9006902	JONES STRIP (4 CONN) 540
10	9008509	STRAIN RELIEF
11	1700006-6	CORD, POWER (115V)
12	1211263	LIGHT, PILOT
13	1210191-3	CIRCUIT BREAKER 15 AMP
14	9006025-1	SCR. PHL PAN HD #6 X 32 X 5/8 LG
15	9006071-3	SCR. PHL TRUSS HD #10-32 X 3/8 LG
16	9006020-1	SCR. PHL PAN HD #6-32 X 1/4 LG
17	9009002	MECHANICAL JUMPER
18	1209350-15	MATE-N-LOCK 15 PIN (FEMALE)
19	1209350-09	MATE-N-LOCK 9 PIN (FEMALE)
20	1209351-04	MATE-N-LOCK 4 PIN (FEMALE)
21	1209379-01	CONTACTS (FEMALE)
22	1209378-01	CONTACTS (MALE)

TITLE

H742, POWER CONTROL

ASSY NO.
E-UA-H742-0-0
SHEET 1 OF 4

SIZE CODE
A PL

NUMBER
H742-0-0

REV
H742-00021

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY T. QUILLIN
DATE 1-19-72
ENG *B. Potter*
DATE 2-14-72
CHECKED D. FONTAINE
DATE 1-26-72
PROD *B. Potter*
DATE 2-24-72
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
23	9007649	L'WASH #6 EXT
24	9006453	#6-32 SEMS X 3/8 LG
25	9007033	TY WRAP HOLDER
26	9007651	L'WASH #10 EXT
27	9006560	KEPS NUT #6-32
28	9006022-1	SCR. PHL HD PAN #6-32 X .38
29	D-IA-74-09701-0-0	BRACKET, POWER SUPPLY
30	9007113	DOUBLE UPRIGHT 90
31	9007269	DOUBLE 45°
32	9107370-22	#14 AWG 19 STRAND PVC. INS. (RED)
33	9009165	FAN MTG CLIP
34	9107530-29	#18 AWG 19 STRAND PVC. INS. (RED/WHT) TWP
35	9007919	FASTON TAB (.250 SERIES) BLU
36	10-10193	CAPACITOR 2 X .1 uf @ 100V
37	9007920	FASTON TAB (.250 SERIES) WHT
38	9007927	RING TERMINAL BLU
39	9007917	FASTON TAB (.250 SERIES) RED
40	9007112	SINGLE FLAT
41	6-IA-5309854-0-0	POWER CONTROL BOX
42	1700016-6	CORD POWER (230V)
43	9107360-22	#18 AWG 19 STRAND PVC. INS. (RED)
44	9007793-1	SCR PHL PAN HD #6-32 X 9/16 LG

TITLE

H742 POWER CONTROL

ASSY NO.
E-UA-H742-0-0
SHEET 2 OF 4

SIZE CODE
A PL

NUMBER
H742-0-0

REV
H742-00021

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY T. QUILLIN
DATE 1-19-72
ENG *B. Potter*
DATE 2-14-72
CHECKED D. FONTAINE
DATE 1-26-72
PROD *B. Potter*
DATE 2-24-72
SECTION 1
ISSUED SECT. 1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
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24	9006453	#6-32 SEMS X 3/8 LG
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28	9006022-1	SCR. PHL HD PAN #6-32 X .38
29	D-IA-74-09701-0-0	BRACKET, POWER SUPPLY
30	9007113	DOUBLE UPRIGHT 90
31	9007269	DOUBLE 45°
32	9107370-22	#14 AWG 19 STRAND PVC. INS. (RED)
33	9009165	FAN MTG CLIP
34	9107530-29	#18 AWG 19 STRAND PVC. INS. (RED/WHT) TWP
35	9007919	FASTON TAB (.250 SERIES) BLU
36	10-10193	CAPACITOR 2 X .1 uf @ 100V
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39	9007917	FASTON TAB (.250 SERIES) RED
40	9007112	SINGLE FLAT
41	6-IA-5309854-0-0	POWER CONTROL BOX
42	1700016-6	CORD POWER (230V)
43	9107360-22	#18 AWG 19 STRAND PVC. INS. (RED)
44	9007793-1	SCR PHL PAN HD #6-32 X 9/16 LG

TITLE

H742 POWER CONTROL

ASSY NO.
E-UA-H742-0-0
SHEET 2 OF 4

SIZE CODE
A PL

NUMBER
H742-0-0

REV
H742-00021

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY T. Quillin		CHECKED D. Fontaine		SECTION
DATE	1/19/72	DATE	1/26/72	1
ENG	G. POTTER	PROD	A. HIRSCH	ISSUED SECT.
DATE	2-14-72	DATE	2-24-72	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
45	12-10820-1	CONNECTOR, HOUSING
46	12-10820-2	CONNECTOR, PIN
47	9006022-3	SCR, PHL TRUSS HD. # 6-32 X 3/8 LG.
48	9006558	NUT, HEX # 6-32 X 5/16 X 1/8
49	9009228	SCR PHL PAN HD, 10-32 X 3/8 SEMS
50	C-MD-74-09702-0-0	COVER, POWER CONTROL
51	D-1A-5309654-3-0	POWER CONTROL BOX
52	D-1A-5309654-4-0	" "
53	9006796	SPACER # 6 * 32 X 3/16 LG SST
54	A-PI-3700073-0-0	H742 POWER SUPPLY INTERPLANT PACKAGE
55	C-1A-7009737-0-0	MINI BOXER FAN SCREEN
56	9006024-1	SCR, PHL, PAN HD, # 6-32 X 1/2 LG
57	A-DC-5310459-0-0	DECAL, H742A
58	A-DC-5310460-0-0	DECAL, H742B
59	A-DC-5310461-0-0	DECAL, H742C
60	A-DC-5310462-0-0	DECAL, H742D
61	1611444	BALUN ASSEMBLY
62	9107370-55	* 14 AWG 1PVC STRANDED, GREEN
63	9006633	LOCK WASHER, #6 INT. TOOTH
64	9007993-1	SCR. PHL. PAN HD. 6-32 X 9/16LG
65	9008208	FAN MTG. CLIP
		* SEE NOTE 4 ON E-UA-H742-0-0

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TITLE	H742 POWER CONTROL	ASSY NO.		SIZE CODE	NUMBER	REV	ECONO.
		E-UA-H742-0-0					
		SHEET 3 OF 4		A	PL	H742-0-0	U
				DIST.			
DEC FORM DEC 1963							

DEC FORM DEC 16-(325)-1031-N870
DRA 110

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST			
MADE BY T. QUILLIN		CHECKED D. FONTAINE	SECTION
DATE	1-19-72	DATE	1-26-72
ENG	G. POTTER	PROD	A. HIRSCH
DATE	2-14-72	DATE	2-24-72
			ISSUED SECT.
			1

[illegible]

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TITLE									
H742 POWER CONTROL									
ASSY NO.		SIZE CODE		NUMBER		REV.		ECO NO.	
E-UA-H742-O-O		A PL		H742-O-O		U			
SHEET 4		OF 4		DIST.					
DEC EABM DEC 16 1956									

DEC FORM DEC 16--(325)--1031--N870
DRA 110