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FIELD MAINTENANCE PRINT SET

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B-TC-877-0-1

FIELD MAINTENANCE PRINT SET

B-DD-877-0

877 POWER CONTROLLER (DD)

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K-PL-877-0-DBP

877 POWER CONTROLLER (PL)

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877 POWER CONTROLLER (CS)

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FRONT PANEL ASSY

K-PL-7019938-0-DBP

FRONT PANEL ASSY (PL)

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HARNESS, CONTROL BOARD

K-PL-7020657-0-DBP

HARNESS, CONTROL BOARD

D-UA-5415690-0-0

A.C. CONTROL BOARD

K-PL-5415690-0-DBP

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A-SP-877-0-2

877 POWER CONTROLLER ENGINEERING SPECIFICATION

UNIT VARIATIONS COVERED BY THIS PRINT SET

877-A

877-B

877-C

877-D

877-E

Field Maintenance Print Set

Digital Equipment Corporation

PRINT SET ORDER NO.
MPØ1598

REVISIONS

REV.

CHG. NO.

DATE

A

INITIAL

-

B

3/30/83

877-ML001

USED ON OPTION/MODEL

DRN.

DATE

P. FAVINI

7SEP82

CHK'D

DATE

E. MCCULLOUGH

14JAN83

PROJ. ENG.

DATE

A. BARON

20JAN83

FIELD SERV.

DATE

R. KLABIS

20JAN83

SHEET I OF I

TITLE:

877 POWER CONTROLLER

SIZE

CODE

NUMBER

REV.

B

TC

877-0-1

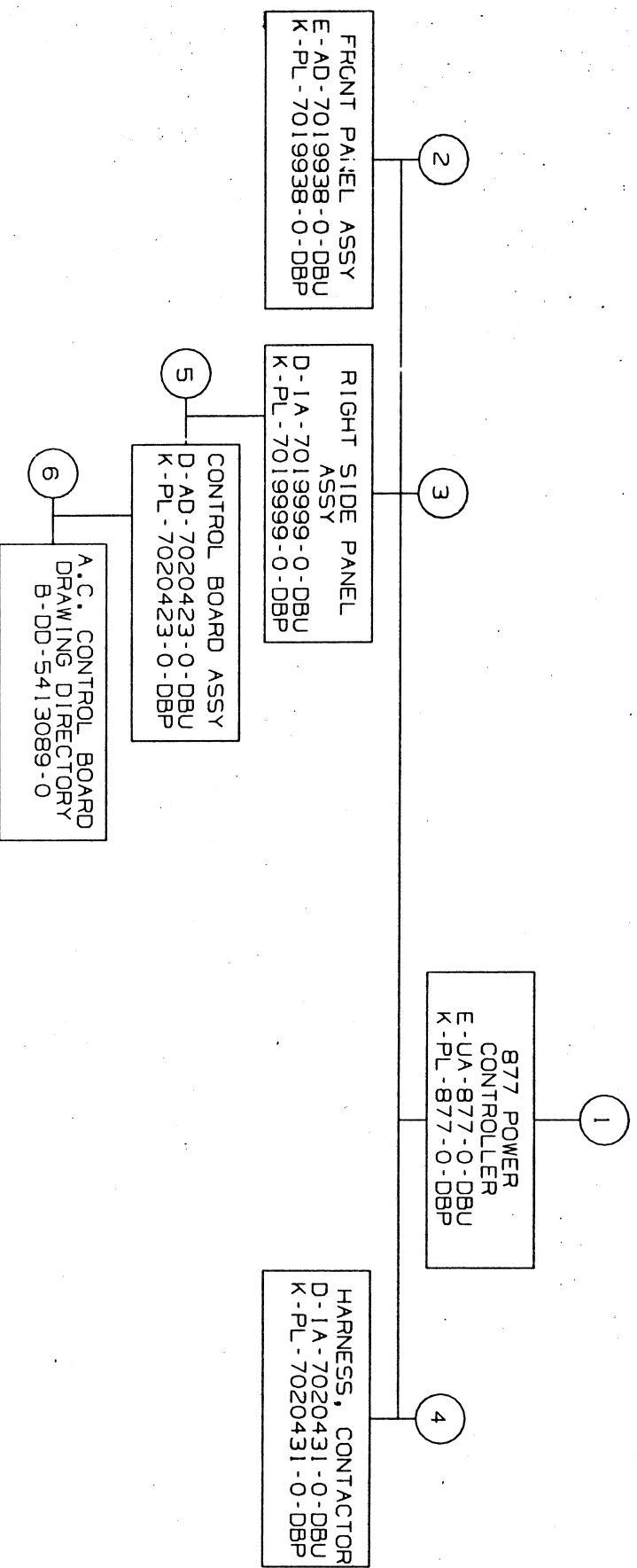
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DIST.

digital

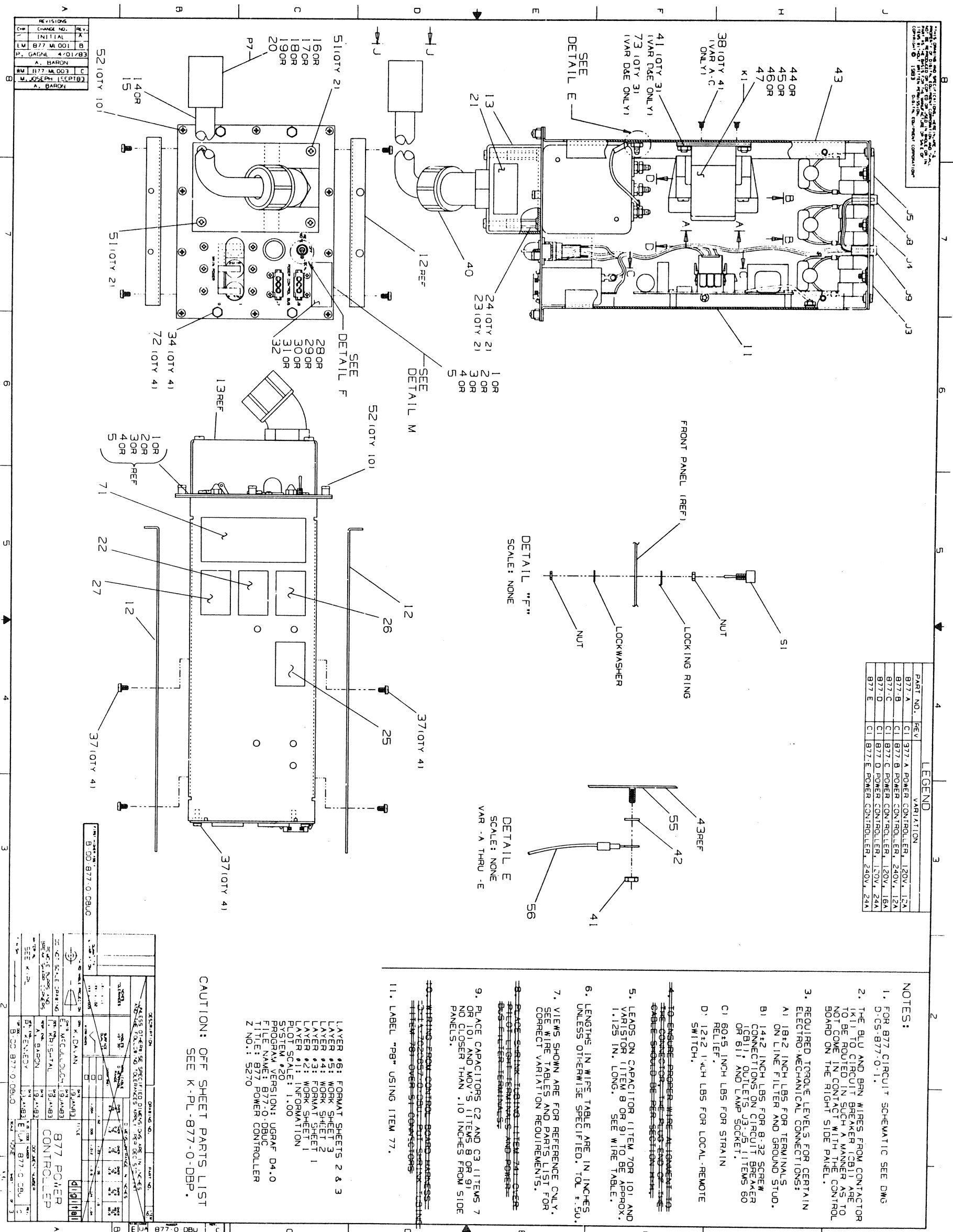
DRB 124

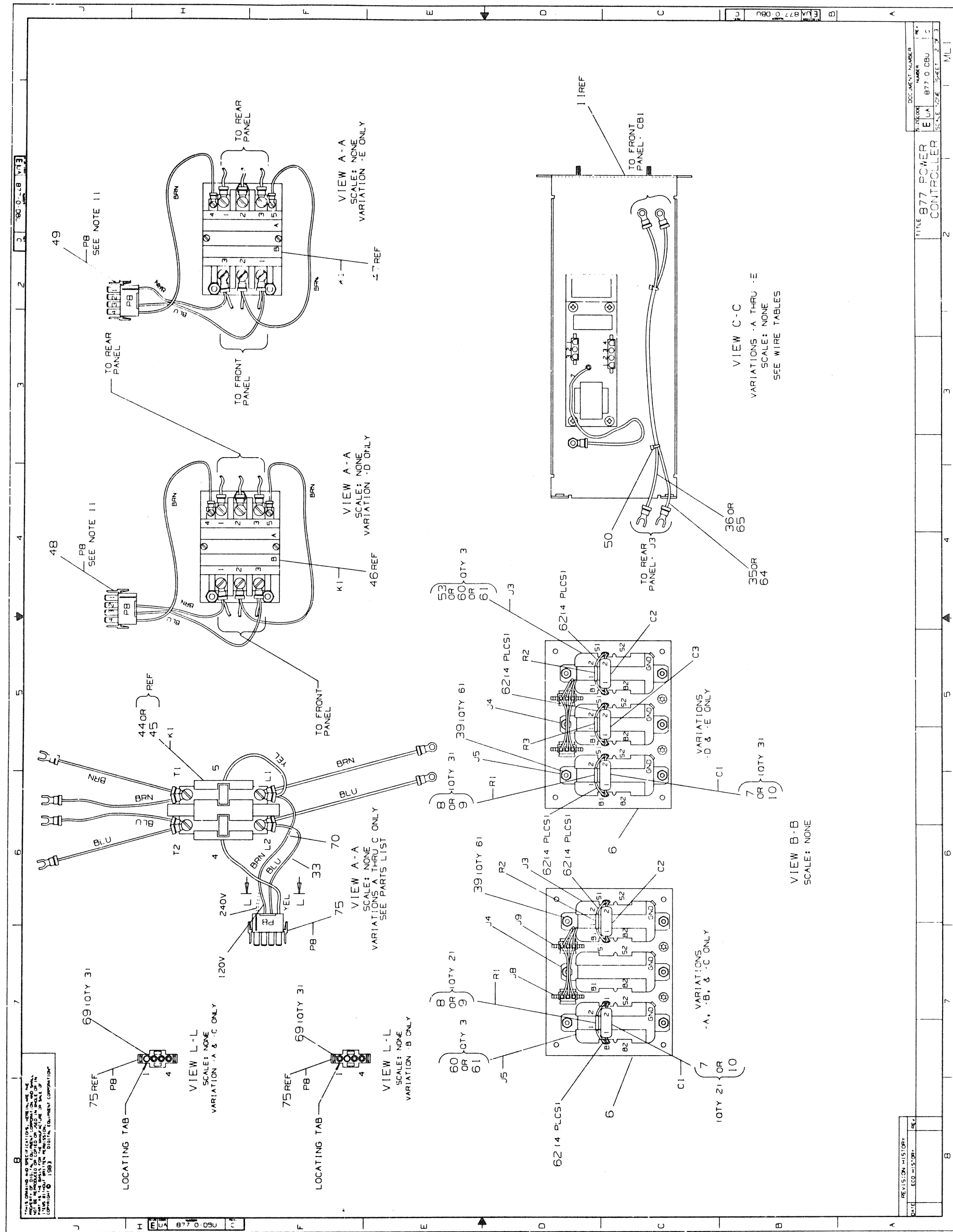
EN-01124-16-N675-(327)



TITLE:	877 POWER CONTROLLER	SHEET 2 OF 3	SIZE CODE B DD	NUMBER 877-0-DBUO	REV. B
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ML 1





AUTOMATED BY PRLST.4Q(50)

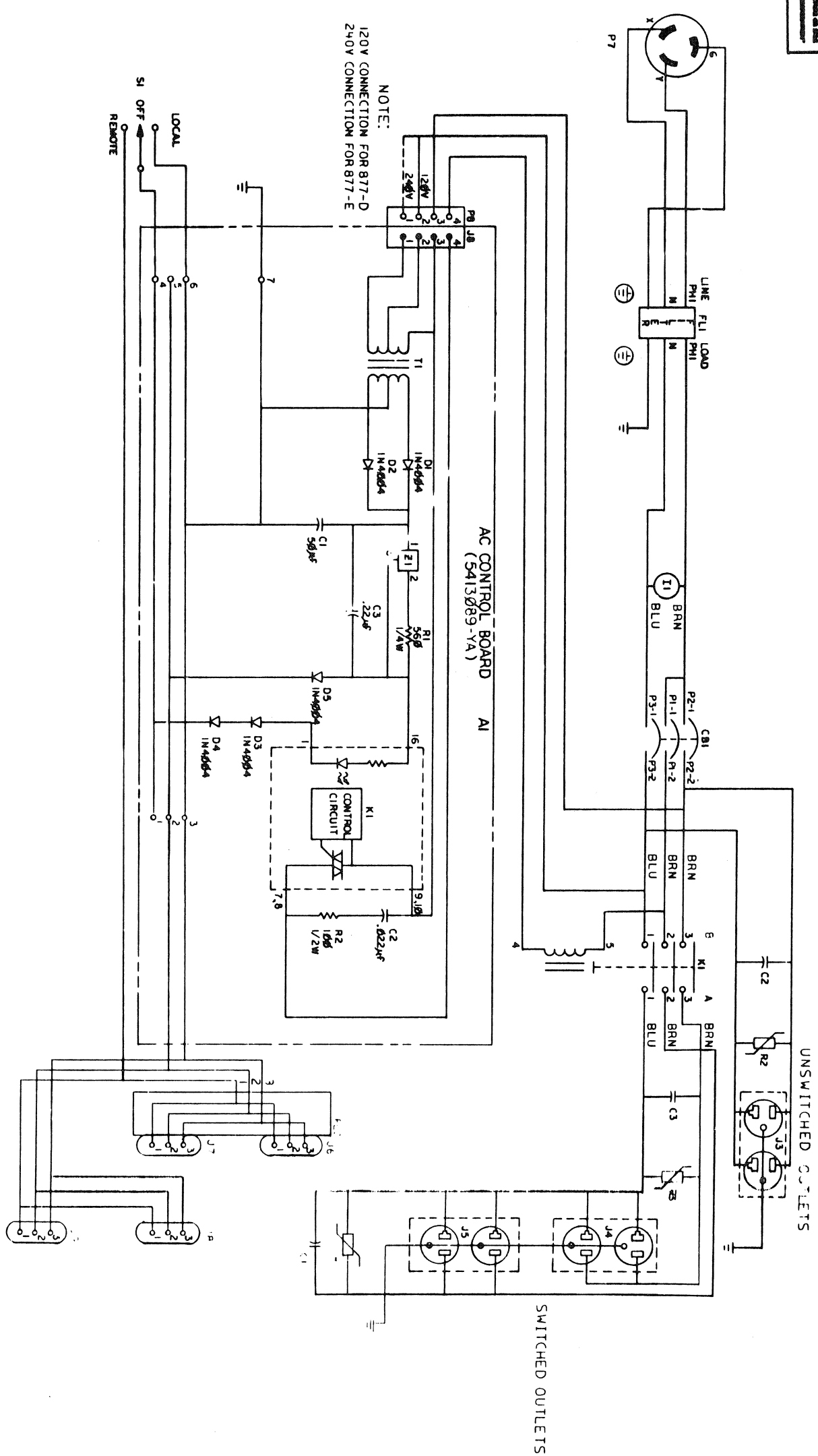
P A R T S L I S T

SHEET A2 OF A2

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION				
				A	B	C	D	E
31	A-PS-3621131-0-0	3621131-04	LABEL, 877D PWR CONTROL	-	-	-	1	-
32	A-PS-3621131-0-0	3621131-05	LABEL, 877E PWR CONTROL	-	-	-	-	1
33		9107786-66	WIRE, 18AWG(19/30)PVC 300V1	A/R	A/R	A/R	-	-
34		9010439-01	NUT, CAP 6-32X 5/16AF	4	4	4	4	4
35		9107380-66	WIRE, 12AWG19/.0185IPVC 300V1	A/R	A/R	A/R	-	-
36		9107380-11	WIRE, 12AWG19/.0185IPVC 300V1	A/R	A/R	A/R	-	-
37		9010174-00	SCREW, SEMS PAN PHIL 6-	12	12	12	12	12
38		9000039-06	SCREW, MACH FLAT PHIL 4-	4	4	4	-	-
39		9006560-00	NUT, HEX EXT TOOTH LCKWSHR 6-32	6	6	6	6	6
40	A-PS-1214574-0-0	1214574-02	STRAIN RELIEF, PWR CORD	1	1	1	1	1
41		9006565-00	NUT, HEX EXT TOOTH LCKWSHR 10-32	1	1	1	1	4
42		9007651-00	WASHER, LOCK EXTERNAL STEEL	1	1	1	1	1
43	D-IA-7427401-0-DBU	7427401-01	PANEL, LEFT SIDE	1	1	1	1	1
44	A-PS-1214283-0-0	1214283-00	CONTRACTOR, 20A, 2P	1	1	1	-	-
45	A-PS-1214283-0-0	1214283-01	CONTRACTOR, 20A, 2P	-	1	-	-	-
46	A-PS-1211147-0-0	1211147-00	CONTRACTOR, 30A, 3P DBL BRK, 600V, 1	-	-	-	-	-
47	A-PS-1211147-0-0	1211147-01	CONTRACTOR, 30A, 3P DBL BRK, 600V, 2	-	-	-	-	1
48	D-IA-7020431-0-DBU	7020431-01	HARNES CONACTOR (877-D)	-	-	-	-	-
49	D-IA-7020431-0-DBU	7020431-02	TIE, CABLE BUNDL. DIA 0- 3/4"=101	A/R	A/R	A/R	A/R	1
50		9007031-00	SCREW, SEMS PAN PHIL 8-	4	4	4	4	4
51		9010174-01	SCREW, CAPTIV PHIL 6-32	10	10	10	10	10
52	A-PS-1221361-0-0	1221361-01	CONN, POWER 02P03M RCPT NEMA 06-2	-	-	-	-	3
53	A-PS-1216885-0-0	1216885-01	TERM, RING #10STUD CRIMP 10-1	19	19	19	17	17
54		9007926-01	DECAL, GROUND SIGN PER 3E6	1	1	1	1	1
55	A-PS-3612680-0-0	3612680-00	WIRE, 10AWG(105/30)IPVC 300V1	A/R	A/R	A/R	A/R	-
56		9107779-54	*** THIS ITEM IS NOT USED ***	-	-	-	-	-
57		9009695-07	TERM, QUICK .300TAB CRIMP 18-2	-	-	-	1	1
58		9007970-00	TERM, SPADE #8STUD CRIMP 10-1	6	6	6	-	-
59		9009695-02	CONN, POWER 02P03M RCPT NEMA 05-2	3	-	3	3	-
60	A-PS-1212265-0-0	1212265-00	TUBING, TEEFLON .042ID	0	3	-	-	-
61	A-PS-1211204-0-0	1211204-03	TERM, SPADE #8STUD CRIMP 14-1	A/R	A/R	A/R	A/R	-
62		9107278-09	WIRE, 10AWG(105/30)IPVC 300V1	4	4	4	6	6
63		9009695-00	WIRE, 10AWG(105/30)IPVC 300V1	-	-	-	A/R	A/R
64		9107390-66	TERM, RING #10STUD FLAG 16-1	0	-	-	A/R	A/R
65		9107390-11	TERM, RING #10STUD CRIMP 14-1	2	2	2	-	1
66		9006999-00	TERM, RING #10STUD CRIMP 16-2	1	1	1	-	-
67		9007930-00	MATE-N-LOK 01SKT 20-14AWG .085OD	3	3	3	-	-
68	A-PS-1212170-0-0	1212170-00	WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R	A/R	A/R	-
69		1212170-00	LABEL, ID W/COPY VERTICAL	1	1	1	1	1
70		9107786-11	WASHER, LOCK INTERNAL STEEL	4	4	4	4	3
71	A-PS-3616073-0-0	3616073-00	WASHER, FLAT SST	-	-	-	-	-
72		9006633-00	TUBING, SHRINK .187ID EXP	A/R	A/R	A/R	A/R	-
73		9006664-00	MATE-N-LOK 04SKT(1X04).250CC HSG	1	1	1	1	-
74		9107305-02	TUBING, SHRINK .093ID EXP	A/R	A/R	A/R	A/R	-
75	A-PS-1212167-0-0	1212167-01		1	1	1	-	-
76	A-PS-9107714-0-0	9107714-00		A/R	A/R	A/R	A/R	-

D	I	G	I	T	A	L	TITLE	SECTION	A	OF	A	SIZE	CODE	DOCUMENT NUMBER	REV
							877 POWER CONTROLLER					K	PL	877-0-CBP	B

REVISIONS
REV. NO. DATE
1 10-2-77



FOR VARIATIONS 877-D & E ONLY
(PLUG AND RECEPTACLES SHOWN ARE FOR 877-D)

REV	DATE	BY
1	10-2-77	

TITLE	POWER CONTROL (877)	SUBCODE	D	CS	877-0-1	NUMBER	A
SCALE	NONE	SHEET	2	OF	2	DATE	

AUTOMATED BY PRLST.4QC(50)

P A R T S L I S T

SHEET A1 OF A1

LINE ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION			
				00	01	02	03 04
1	D-MD-7427399-0-DBU	7427399-01	PANEL FRONT	1	1	1	1
2	A-PS-1212124-0-0	1212124-08	CKT BKR 15.0 A 240V 2P SERIES TR	1	1	1	1
3	A-PS-1212124-0-0	1212124-07	CKT BKR 20.0 A 240V 2P SERIES TR	-	-	-	-
4	A-PS-1211196-0-0	1211196-04	CKT BKR 20.20, 30A 250V SERIES TR	-	-	-	-
5	A-PS-1213070-0-0	1213070-00	FILTER, LINE 110-220V, 50-60HZ 112	1	1	1	1
6	A-PS-1219281-0-0	1219281-00	LAMP NEON W/RESISTOR FOR 115-230	1	1	1	1
7	A-PS-1219295-0-0	1219295-01	LENS, LAMP HOLDER USE W/12-19294-	1	1	1	1
8	A-PS-1219294-0-0	1219294-01	HOLDER, NEON LAMP W/RESISTOR 2TER	1	1	1	1
9	A-PS-1219294-0-0	1219294-02	HOLDER, NEON LAMP W/68KOHM RESIST	-	-	-	-
10	C-IA-7422924-0-0	7422924-00	COVER PLATE	1	1	1	1
11		9010174-01	SCREW, SEMS PAN PHIL	2	2	2	2
12		9010174-00	SCREW, SEMS PAN PHIL	2	2	2	2
13		9007926-01	TERM, RING #10STUD CRIMP	4	4	4	4
14		9107390-11	WIRE, 10AWG(105/30)IPVC 300V1	-	-	-	-
15		9107390-66	WIRE, 10AWG(105/30)IPVC 300V1	-	-	-	-
16		9107380-66	WIRE, 12AWG19/.0185IPVC 300V1	A/R	A/R	A/R	A/R
17		9008301-01	SCREW, MACH PAN PHIL	4	4	4	4
18		9107380-11	WIRE, 12AWG19/.0185IPVC 300V1	A/R	A/R	A/R	A/R
19		9000009-01	TERM, RING #3, 4STUD CRIMP	2	2	2	2
20	A-PS-1221099-0-0	1221099-01	FILTER, POWER BUS	1	1	1	1
21		9107786-66	WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R	A/R	A/R
22		9107786-11	WIRE, 18AWG(19/30)IPVC 300V1	A/R	A/R	A/R	A/R
23	C-IA-7428237-0-DBU	7428237-01	BRACKET	1	1	1	1
24		9009545-01	SCREW, SEMS PAN PHIL	2	2	2	2
25		9107305-02	TUBING, SHRINK .187ID EXP	A/R	A/R	A/R	A/R

REVISION HISTORY

BASIC PART NO: 7019938

ENG ECO NUMBER

REV

SECTION A OF A

INITIAL

A

SECTION VARIATION INDEX

[A] 00, 01, 02, 03, 04

[B]

[C]

[D]

[E]

[F]

DRN: P. FAVINI

DATE: 29-JUN-82

CHK'D: E. MCCULLOUGH

DATE: 21-JAN-83

DES.ENG.: I. KRISHAL

DATE: 21-JAN-83

RESP.ENG.: A. BARON

DATE: 21-JAN-83

MFG.ENG.: R. KENNEDY

DATE: 21-JAN-83

ASSEMBLY NUMBER:

DATE: 21-JAN-83

E-AD-7019938-0-DBU

DATE: 21-JAN-83

DOCUMENT NUMBER

FRONT PANEL ASS. (377)

SIZE: CODE: NUMBER

PL 7019938-3-DBP

FILE NAME: 25211A.DWG

EDIT # 18

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WIRE TABLE

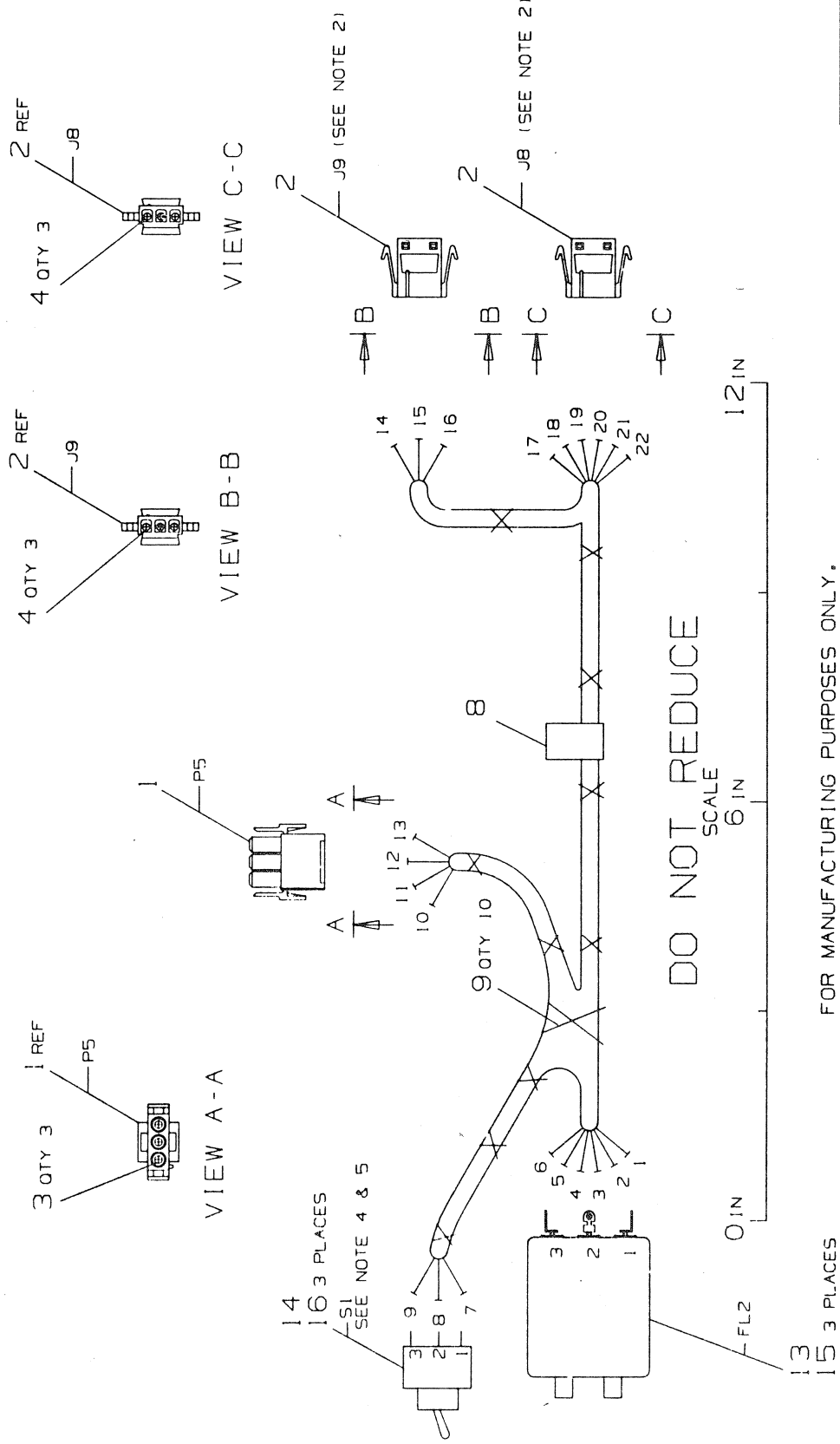
ITEM NO.	DESCRIPTION	COLOR	FROM		TO		LENGTHS
			POINT	CONN	POINT	CONN	
10	22	ORG	1	FL2-1	7	SI-1	5.00
5	1	RED	2	FL2-1	18	JB-1	11.75
6	3	BLK	3	FL2-2	12	P5-2	6.00
6	4	BLK	4	FL2-2	20	JB-2	11.75
7	5	GRN	5	FL2-3	11	P5-3	6.00
7	6	GRN	6	FL2-3	22	JB-3	11.75
5	8	RED	8	SI-2	13	P5-1	7.75
7	9	GRN	9	SI-3	10	P5-3	7.75
5	14	RED	14	J9-1	17	JB-1	4.50
6	15	BLK	15	J9-2	19	JB-2	4.50
7	22	GRN	16	J9-3	21	JB-3	4.50

LEGEND

PART NO.	REV	VARIATION
7020657-01	B1	AS SHOWN

NOTES:

- USE TIE WRAPS (X) ITEM 9 APPROXIMATELY EVERY 3 INCHES WHEN NECESSARY AND AT EVERY BREAKOUT POINT.
- CONNECTORS TO BE LABELED WITH COMPONENT IDENTIFIERS ITEMS 11 & 12.
- UNLESS OTHERWISE NOTED ALL LENGTHS ARE IN INCHES.
- POSITION OF KEYING SLOT ON SWITCH BARREL DETERMINES PIN 1 (AS SHOWN).
- PLACE SHRINK TUBING (ITEM 16) OVER SWITCH TERMINALS.



LAYER #2 = FORMAT LAYER
LAYER #1 = WORK LAYER

PLOT AT: 1.00

CAUTION: CFF SHEET PARTS LIST
REFER TO K-PL-7020657-0-DBP
(Z6444)

DESCRIPTION	DRAWING NO.	PART NO.	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY PER STD 11-1			
TOLERANCES	UNLESS OTHERWISE SPECIFIED	DIMENSION RANGE IN INCHES	
FRAMES	0.005	0.005	0.005
LOCATIONS	0.005	0.005	0.005
SPACINGS	0.005	0.005	0.005
DIAMETERS	0.005	0.005	0.005
RADIUSES	0.005	0.005	0.005
ANGLES	0.005	0.005	0.005
THREADS	0.005	0.005	0.005
FINISHES	0.005	0.005	0.005
QUANTITY & VARIATION			
THIRD ANGLE PROJECTION			
TITLE	DATE	DATE	DATE
HARNESS CONTROL BOARD	28 JAN 83	10 MAR 83	10 MAR 83
DO NOT SCALE DRAWING	DES. ENG.	AL. BARON	10 MAR 83
REMOVE BURRS AND BREAK SHARP CORNERS	RESP. ENG.	AL. BARON	10 MAR 83
MATERIAL	DATE	DATE	DATE
SEE PARTS LIST	10 MAR 83	10 MAR 83	10 MAR 83
FINISH: NONE			
SCALE	1/1	1/1	1/1
ML 1	2	3	4

REVISIONS	CHG	CHANGE NO.	REV.
1	EM	B77-ML001	A
2	WM	R/7-M-003	B
3	WM	R/7-M-003	B
4	WM	R/7-M-003	B
5	WM	R/7-M-003	B
6	WM	R/7-M-003	B
7	WM	R/7-M-003	B
8	WM	R/7-M-003	B
9	WM	R/7-M-003	B
10	WM	R/7-M-003	B
11	WM	R/7-M-003	B
12	WM	R/7-M-003	B
13	WM	R/7-M-003	B
14	WM	R/7-M-003	B
15	WM	R/7-M-003	B
16	WM	R/7-M-003	B
17	WM	R/7-M-003	B
18	WM	R/7-M-003	B
19	WM	R/7-M-003	B
20	WM	R/7-M-003	B
21	WM	R/7-M-003	B
22	WM	R/7-M-003	B

MANAGED AUTOMATED BY PRTLIST.AQC(SO)

PARTS LIST

SHEET A1 0

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1		A-PS-1212167-0-0	1212167-00	MATE-N-LOK 03SKT(1X03) 250CC HSG	1
2		A-PS-1209350-0-0	1209350-03	MATE-N-LOK 03SKT(1X03) 200CC HSG	2
3		A-PS-1212170-0-0	1212170-03	MATE-N-LOK 01SKT 24-18AWG .0850D	3
4		A-PS-1209379-0-0	1209379-06	MATE-N-LOK 01SKT 24-18AWG .0820D	6
5			9107796-22	WIRE, 22AWG(07/30)PVC 300V1	A/R
6			9107796-00	WIRE, 22AWG(07/30)PVC 300V1	A/R
7			9107796-55	WIRE, 22AWG(07/30)PVC 300V1	A/R
8			9009532-00	LABEL, CABLE IDENTIFICATION	1
9			9007031-00	TIE, CABLE BUNDL DIA 0- 3/4"=101	A/R
10			9107796-33	WIRE, 22AWG(07/30)PVC 300V1	A/R
11			7409872-02	PWR HARNESS DECAL, BLACK ON CLEA	1
12			7409873-02	PWR CONN DECAL, BLACK ON CLEA	1
13			1221099-01	FILTER, POWER BUS	1
14			1221067-01	SW, TOG 1PDT ON/OFF/ON	SA
15			9107305-02	TUBING, SHRINK 187ID EXP	A/R
16			9107714-00	TUBING, SHRINK .093ID EXP	A/R

REVISION HISTORY

BASIC PART NO: 7020657

DATE: 02-FEB-83

DRN: KEN DAVAN

ENG	ECO NUMBER	REV	SECTION A OF A	DATE	0	1	2	3	4	5	6	7	8	9	A	L
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A.B	INITIAL	A	SECTION VARIATION INDEX	CHK'D: E. MCCULLOUGH	DATE: 02-FEB-83	TITLE PARTS LIST									
	877-ML003	B	[A] 01	DES.ENG.: AL BARON	DATE: 02-FEB-83	HARNESS, CONTROL BOARD									

			[B]	DES.ENG.: AL BARON	DATE: 02-FEB-83	DOCUMENT NUMBER									
			[C]	RESP.ENG.: AL BARON	DATE: 02-FEB-83	SIZE/CODE NUMBER									
			[D]	MFG.ENG.: R. KENNEDY	DATE: 29-APR-83	REV									
			[E]	ASSEMBLY NUMBER:	TOP DOCUMENT NUMBER:	FILE NAME:									
			[F]	E-AD-7019938-0-0BU	D-IA-7020657-0-0BU	Z64448.PLS									

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YCHK BH G3

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1983

REPORT	→ X AXIS	STEP _____	SMALL _____ TIMES
STEP 6	↑ Y AXIS	STEP _____	SMALL _____ TIMES

CHK	CHANGE NO	REV	5415690 -	B	5/25/83	AL BARON	5/25/83
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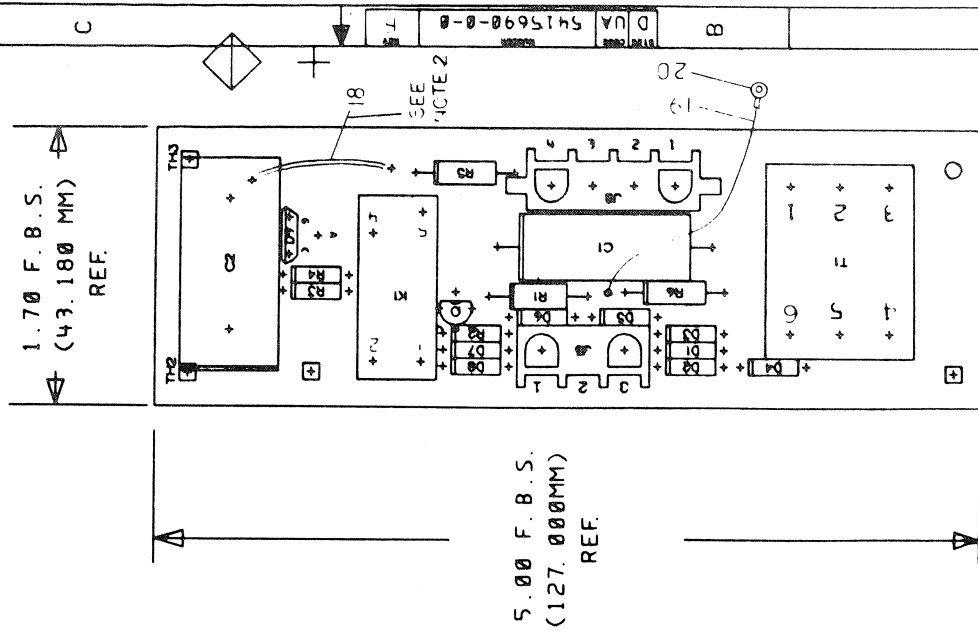
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[illegible]

SIGNATURES	DATE
DRN. JOE LIZOTTE	12-4-88
CMK D. J. [Signature]	-5-88
MECH. ENG. [Signature]	1-2-89
PROJ. ENG. [Signature]	2-1-89
SCALE 2.1	4-1-89
SAT. 1 OF 1	

SIZE	CODE	NUMBER	REV
D	UA	5415690-0-0	E

1 MS#182048C



5.00 F.B.S.
(127.00MM)
REF

1.70 F. B. S.
(43.180 MM)
REF.

AUTOMATED BY PRLST.4Q(50)
LINE ITEM DOCUMENT NUMBER

PART NUMBER

DESCRIPTION

QTY PER VARIATION
00

REFERENCE DESIGNATOR

PARTS LIST

SHEET A1 OF A1

1	D-MD-5015689-0-0	5015689-00	CIRCUIT DRILL AND ETCH	1	C1
2		1000080-00	50 MFD 50V +75-10% AL EL	1	C2
3		1018866-01	.022 MFD 800V 20% POLYPROP	1	C2
4		1105796-00	PIV= 400 IO= 1.00A 1N4004 DO-41	7	D1-D4, D6-D8
5		1212297-01	MATE-N-LOK (4PIN)(X04).250CC HDR	1	J8
6		1218087-00	RLY.G.P., 24V COIL, .10A	1	K1
7		1301969-00	22.0 .25 W 5.0 % CF	1	K1
8		1621344-01	XFMR P=120/240 S=38V, 47-63HZ	1	R2
9		1300271-00	220.0 .25 W 5.0 % CF	1	T1
10		1212297-03	MATE-N-LOK (3PIN)(X03).250CC HDR	1	R3
11		1110856-00	VZ= 24.0 5% 400 MW 1N970B	1	J5
12		1510705-00	XA .05 NPN 500MW SI 60 50 P	1	D5
13		1518101-00	TRIAC PIV= 500 IO= .80A	1	Q1
14		1321151-01	2.0 K 1.50 W 5.0 % WM	1	D9
15		1300447-00	4.70 K .25 W 5.0 % CF	1	R1
16		1300228-00	100.0 .50 W 5.0 % CF	1	R4
17		1316506-00	100.0 K .50 W 5.0 % CF	1	R5
18	SEE NOTE	9107796-55	WIRE, 22AWG(07/30)IPVC 300V1	A/R	
19		9107400-54	WIRE, 22AWG(07/30)IPVC 150V	A/R	
20		9007930-00	TERM,RING #10STUD CRIMP 16-2	1	R6

21 NOTE: CUT ITEM 18 APPROX 1 1/2" LONG

REVISION HISTORY		BASIC PART NO: 5415690	
ENG	ECO NUMBER	REV	SECTION A OF A
INITIAL		A	SECTION VARIATION INDEX
A.B. 5415690-ML001		[A]	00
		[B]	
		[C]	
		[D]	
		[E]	
		[F]	
		[H]	
		[J]	
		[K]	
		[L]	
		[M]	
		[N]	
		DRN:	J. LIZOTTE
		DATE:	01-JAN-83
		CHK'D:	D. BARRIERE
		DATE:	08-NOV-82
		DES. ENG:	A. BARON
		DATE:	08-NOV-82
		RESP. ENG.:	A. BARON
		DATE:	08-NOV-82
		MFG. ENG.:	B. KENNEDY
		DATE:	08-NOV-82
		ASSEMBLY NUMBER:	K PL
		TOP DOCUMENT NUMBER:	5415690-0-DBP
		B-DD-5415690-0-0	FILE NAME: Z5849B.PLS
		DOCUMENT NUMBER	
		SIZE: CODE: NUMBER	REV
		PL	B
		EDIT #	4
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TITLE: POWER CONTROLLER SPECIFICATION - 877

REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

A	INIT RELEASE					
B	Doc. Change	877-ML002		5/26/83	Alfred Baron	5-26-83

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ENG.	APPD	SIZE	CODE	NUMBER	REV
A. BARON	A. BARON	A	SP	877-0-2	B

SHEET 1 OF 9

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- 2.0 APPLICABLE DOCUMENTS
- 3.0 ELECTRICAL DESCRIPTION
- 4.0 INPUT OVERVOLTAGE SURGE RATING & CIRCUIT BREAKER RATING
- 5.0 POWER CONTROL BUS
- 7.0 RIDE THROUGH CAPABILITY
- 8.0 MECHANICAL AND ENVIRONMENTAL SPEC
- 9.0 PRODUCT SAFETY
- 10.0 RELIABILITY

SIZE	CODE	NUMBER	REV
A	SP	877-0-2	B

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1.0 GENERAL DESCRIPTION

1.1 MECHANICAL

The 877 power controller consists of five variations: 877-A, B, C, D and E. All have two switched duplex outlets and one unswitched duplex (total of 6 outlets). All variations include an ac line filter. The 877's application is to distribute and control ac power in cabinets. All variations include a line cord and a suitable connector.

2.0 APPLICABLE DOCUMENTS

DEC STD. 002	AC Power Wiring, Grounding, Receptacles Rev. C
DEC STD. 102	Environmental Standard Rev. D
DEC STD. 122	AC Power Line Standard Rev. D
DEC STD. 123	Power Control Bus Standard Rev. A
DEC STD. 119	Product Safety Standard Rev. D

3.0 ELECTRICAL

The power controller serves four functions:

- To control large amounts of power with low signal power.
- To provide a convenient ac power distribution point.
- To disconnect power for servicing and in case of overload.

A block diagram of the basic power controller is shown in Figure

There are five (5) configurations of the power controller listed, all are single phase (see table I).

SIZE	CODE	NUMBER	REV
A	SP	877-0-2	B

SHEET 3 OF 9

TABLE I

SIZE	CODE	NUMBER	REV
A	SP	877-0-2	B

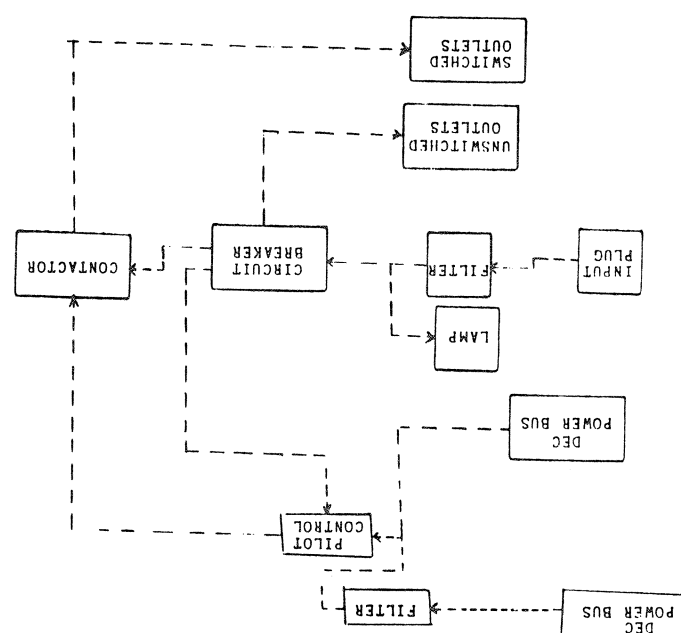
SHEET 4 OF 9

ELECTRICAL SPECIFICATIONS All values are rms unless otherwise specified.									
877 TYPE	RATED VOLT. RANGE	INPUT CURRENT (PEAK I)	RATED INPUT VA BREAKER FULL LOAD RATING	POWER CORD NEMA PLUG	OUTPUT NEMA RECEPT.				
A	120 90-132	12A	300A	1440 15-15A	#12 5-15P	5-20R	5-20R	5-20R	5-20R
B	240 180-264	12A	300A	2880 15-15A	#12 6-15P	6-20R	6-20R	6-20R	6-20R
C	120 90-132	16A	400A	1920 25-25A	#12 5-20P	5-20R	5-20R	5-20R	5-20R
D	120 90-132	24A	500A	2880 25-25-30A	#10 15-30P	5-20R	5-20R	5-20R	5-20R
E	240 180-264	24A	500A	5760 25-25-30A	#10 16-30P	6-20R	6-20R	6-20R	6-20R

GENERAL SPECIFICATIONS - All variations
Input and output connections are single phase 2 wire plus ground
Frequency range is 47 Hertz to 63 Hertz
Input power at no load - 10 Watts maximum
Line filter - See A-PS-12-13070-0-0
Leakage current contribution of the Power Controller - 1.5mA max @ 250 V 60 Hz
Output voltage - Same as input less voltage drop through unit not to exceed 2 volts

SIZE	A	SP	NUMBER	877-C-2	REV	B
------	---	----	--------	---------	-----	---

FIGURE 1



ENGINEERING SPECIFICATION 18141 CONTINUATION SHEET

REV	NUMBER	SP	A	SIZE	CODE
B	877-0-2				

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NO TONES EXCEPT TO THE CARRIER ARE TO BE PLUGGED INTO THE POWER CONTROLLER.

- pin Mate-N-Lok connectors going to the control board. Each of these connectors feeds two three pin Mate-N-Lok connectors mounted on the power controller. The pin connections are as follows:
- Pin 1 Power Request
Pin 2 Power Inhibit
Pin 3 Return
- The two Mate-N-Lok connectors on the front panel are part of a power bus filter designed to reduce noise appearing at the front panel power bus Mate-N-Lok connectors.
- Input signal current levels:
- High $< 20 \mu A$
Low $\leq 20 mA$
- * For worst case line voltage.
- Input signal voltage levels:
- High $< 35V$ at 132V line voltage
Low $< 1.6V$
- LOADS 0.0

VERSION	PHASE TO NEUTRAL
877-A, 'C,D	150V, 1 SECOND
877-B, 'E	300V, 10ND

4.0 INPUT OVERVOLTAGE SURGE FOR THE POWER CONTROLLER ALONE

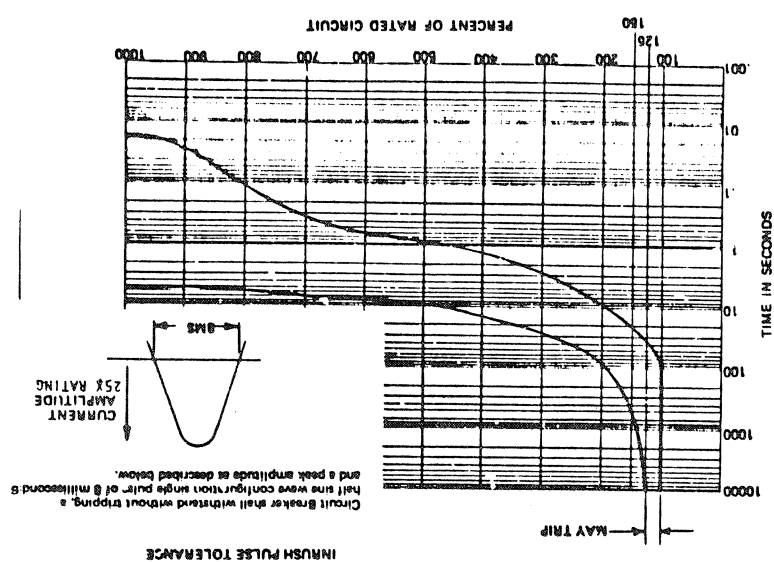
ENGINEERING SPECIFICATION Digital CONTINUATION SHEET

REV	NUMBER	SP	A	SIZE
B	877-0-12			

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FIG. 11

TIME-DELAY CURVE



 ENGINEERING SPECIFICATION INITIAL CONTINUATION SHEET

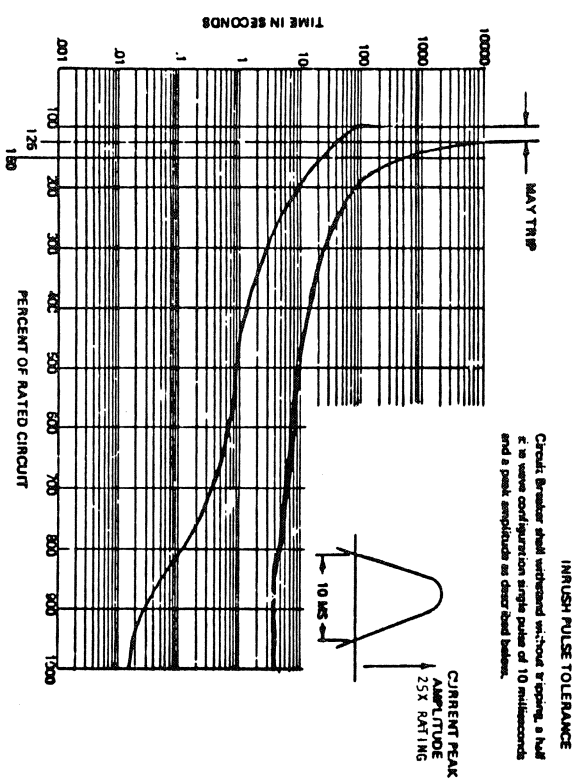
REV	SIZE	CODE	SP	NUMBER
B				877-0-2

SHEET 6 OF 9

MTBF of 60,000 hours.

- | | | | |
|------|------|------------------------------|--|
| 9.0 | 8.0 | MECHANICAL AND ENVIRONMENTAL | Less than 1 millisecond. |
| 9.1 | 8.1 | DIMENSIONS | 6 9/16 (16.7cm) x 11 1/16 (2.1cm) x 5 5/16 (12.5cm) |
| 9.2 | 8.2 | WEIGHT | 15 lbs. (6.8kg) max. |
| 9.3 | 8.3 | APPLICATION | To be used only in 1760D cabinet series with H954-S series builthead panels in which the outlet receptacles will not be operator accessible. |
| 9.4 | 8.4 | TEMPERATURE | Per IEC STD.102 Rev. C DEC class B (10°C To 40°C) OPERATING (-40°C To 65°C) STORAGE |
| 9.5 | 8.5 | RELATIVE HUMIDITY | Per DEC STD.102 Rev. C DEC class B |
| 9.6 | 8.6 | VIBRATION | Per DEC STD.102 Rev. C DEC class B |
| 9.7 | 8.7 | SHOCK | Per DEC STD.102 REV. C DEC class C. |
| 9.8 | 8.8 | ALTITUDE | Per DEC STD.102 Paragraph 2.0 |
| 9.9 | 8.9 | COOLING | Per DEC STD.102 Paragraph 3.0 |
| 9.0 | 9.0 | PRODUCT SAFETY | Convection cooled. |
| 10.0 | 10.0 | PRODUCT RELIABILITY | The 877 power controller shall conform to DEC STD.119 (Product Safety). |
| | | | PRODUCT RELIABILITY |
| | | | The MCB of the 877 power controller shall be 2500. Based on |

ENGINEERING SPECIFICATION Digital CONTINUATION SHEET



SIZE	CODE	NUMBER	REV
A	SP	877-0-2	B

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