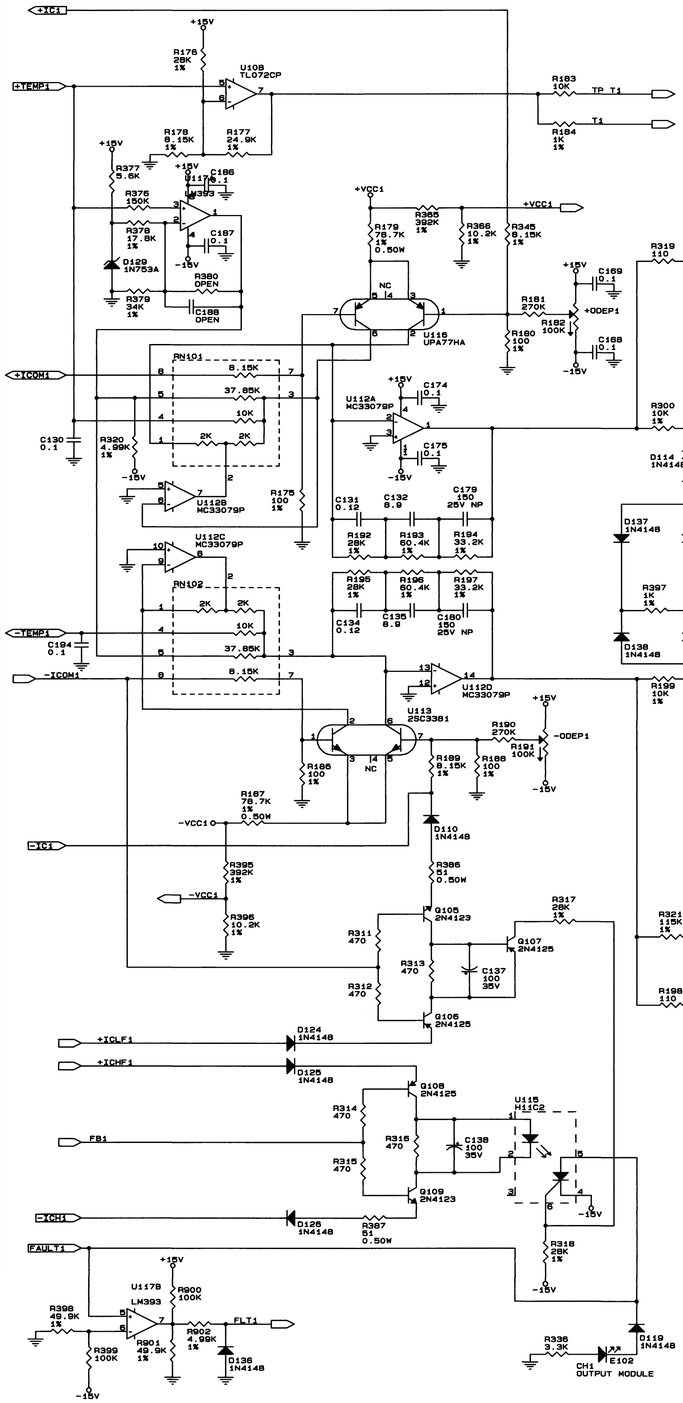
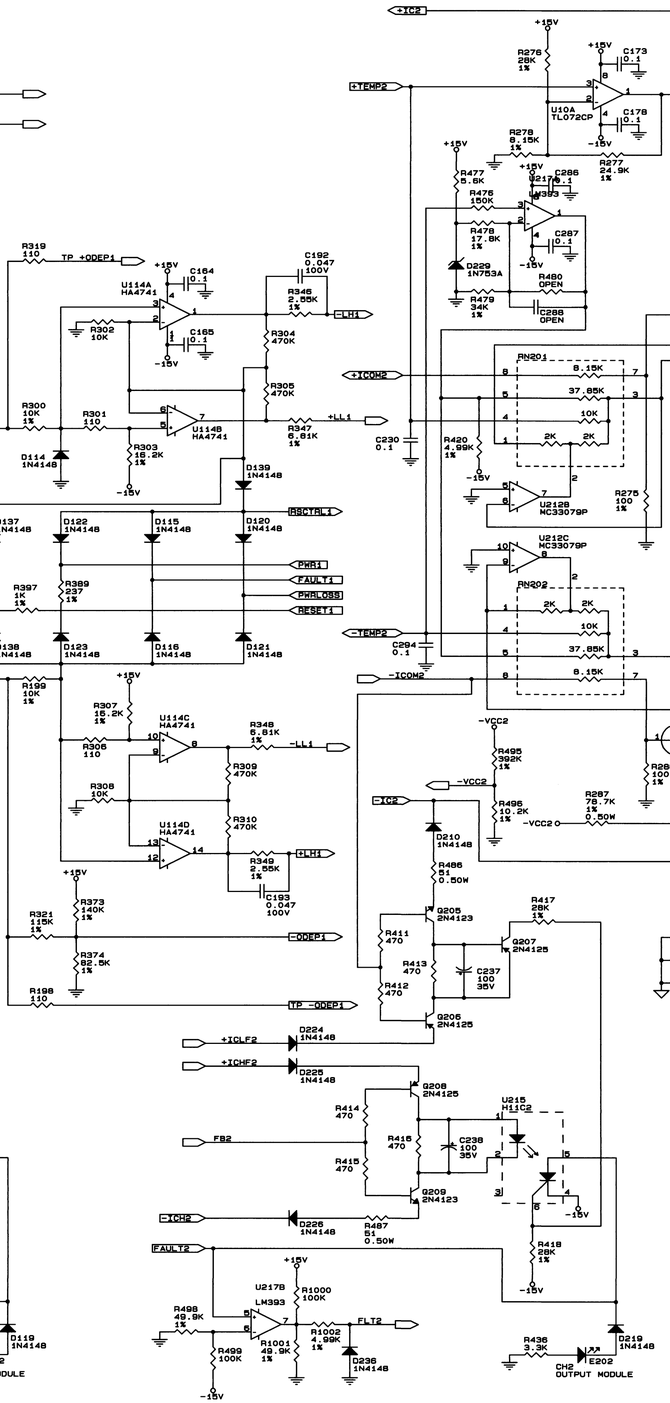
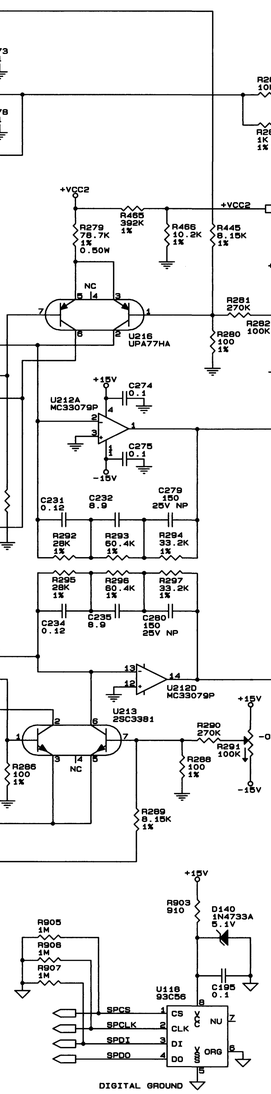
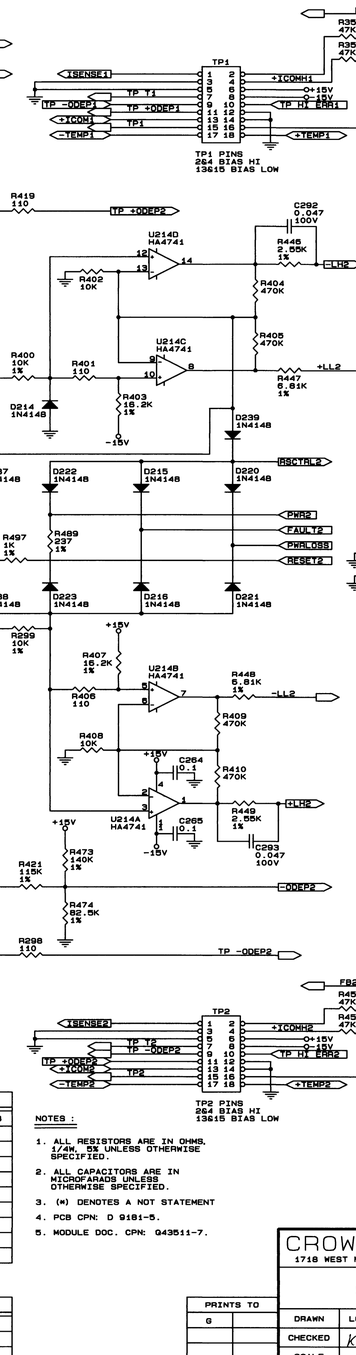
CHANNEL 1

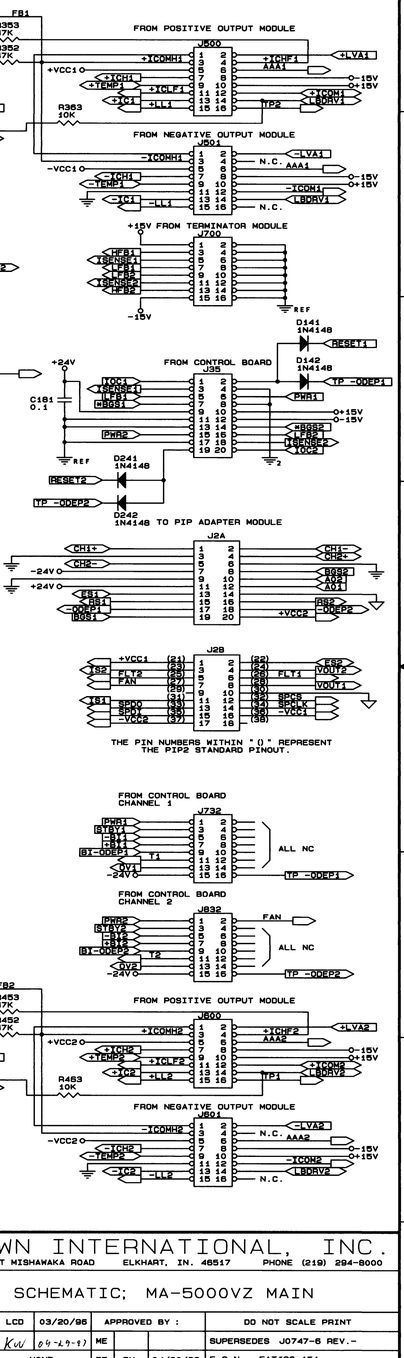
CHANNEL 2











CHANNEL 1

ADD 100 TO REFERENCE DESIGNATORS FOR CHANNEL 2

LAST USED	OBSOLETED
C198	118, 119, 121-129, 136, 139-149, 170, 188
D142	108, 109, 117, 118
E102	
Q115	111
RN102	
R199	108, 180, 185
R399	351, 354, 384, 388
R908	
S102	
U118	108

COMMON COMPONENTS

LAST USED	OBSOLETED
C1	
D2	
S1	
R14	5, 9-11, 13
U10	1-9

NOTES :

1. ALL RESISTORS ARE IN OHMS. 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. (*) DENOTES A NOT STATEMENT
4. PCB CPN: D 9181-5.
5. MODULE DOC. CPN: 043511-7.

PRINTS TO
G

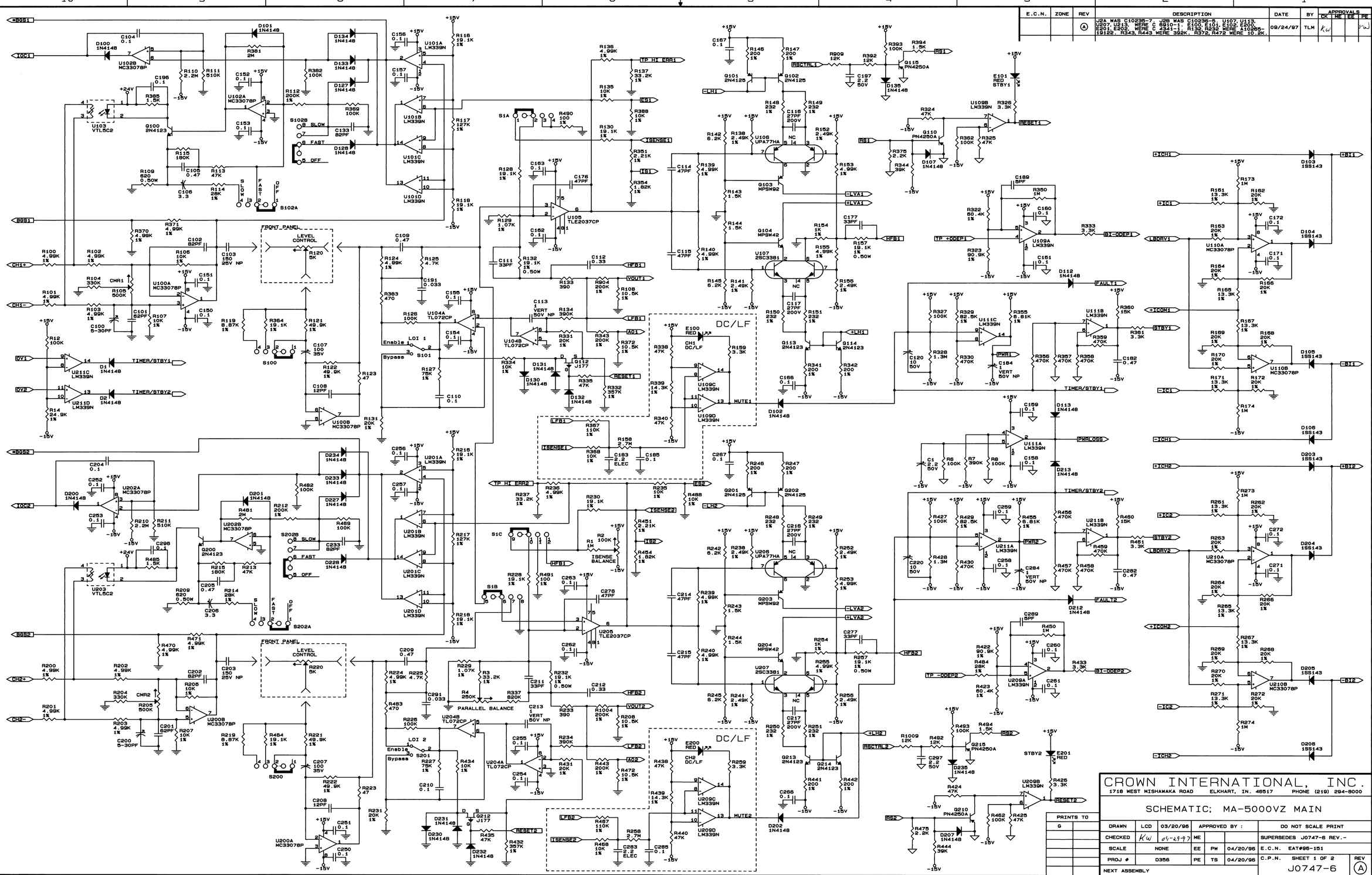
CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEMATIC; MA-5000VZ MAIN

DRAWN	LCD	03/20/96	APPROVED BY :		DO NOT SCALE PRINT
CHECKED	KW	04-29-96	ME		SUPERSEDES J0747-6 REV.-
SCALE	NONE		EE	PM 04/20/96	E.C.N. EAT#96-151
PROJ #	D356		PE	TS 04/20/96	C.P.N. SHEET 2 OF 2
NEXT ASSEMBLY					J0747-6 REV A

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Document Has Been Replaced with a Newer Version

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS CK	ME	EE	PE
		A	J2A WAS C10238-7. J2B WAS C10236-5. U107, U113, U207, U213, WERE C 5910-1. E100, E101, E102, E200, E201, E202, WERE C 4341-1. R132, R232 WERE A10285-191122. R343, R443 WERE 392K. R372, R472 WERE 10.5K.	09/24/97	TLM	KW			



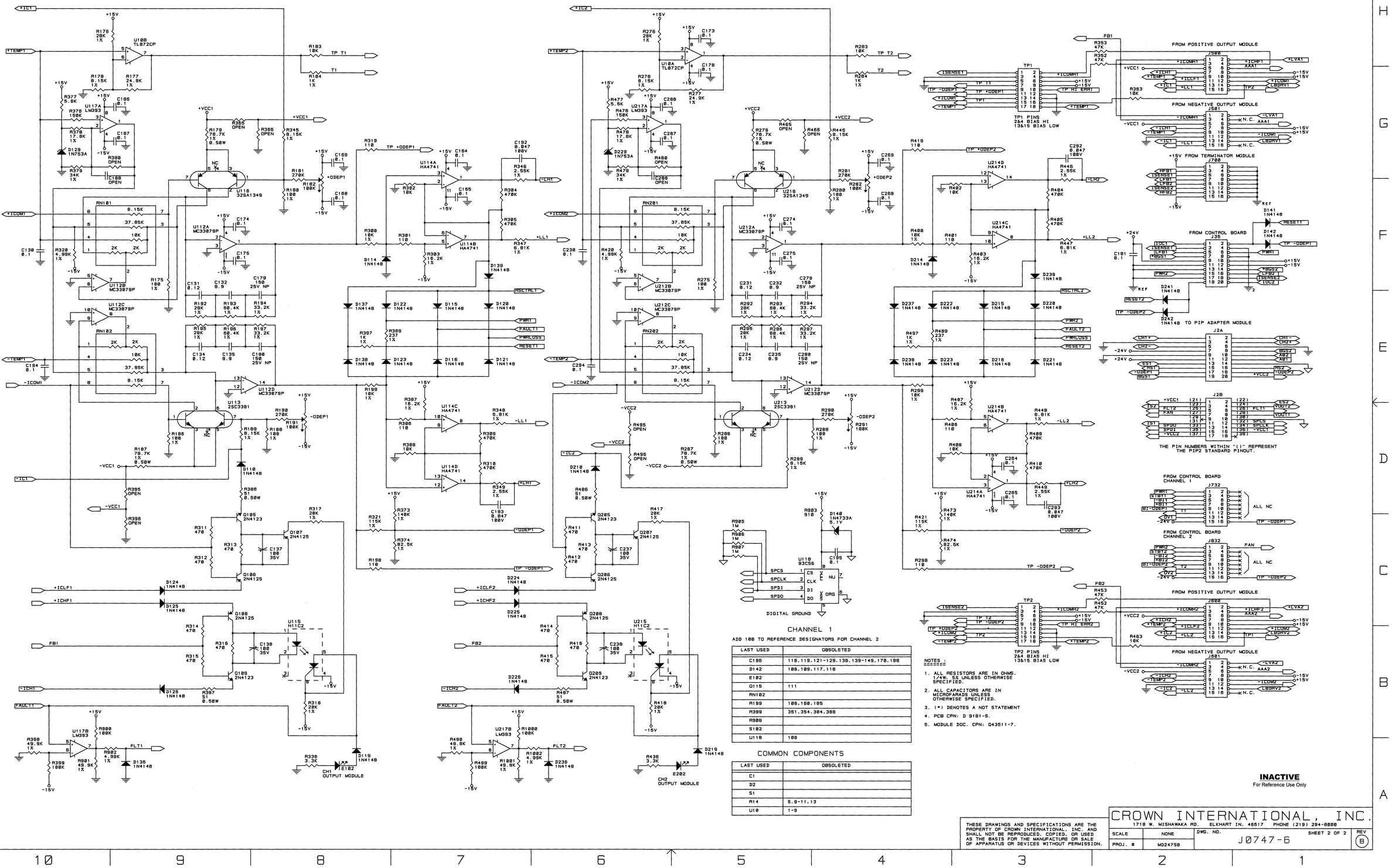
CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEMATIC; MA-5000VZ MAIN

PRINTS TO	
G	

DRAWN	LCD	03/20/96	APPROVED BY :		DO NOT SCALE PRINT
CHECKED	KW	05-29-97	ME		SUPERSEDES J0747-6 REV.-
SCALE	NONE		EE	PW 04/20/96	E.C.N. EAT#96-151
PROJ #	D358		PE	TS 04/20/96	C.P.N. SHEET 1 OF 2 J0747-6 REV A
NEXT ASSEMBLY					

INACTIVE
For Reference Use Only
Document Has Been Replaced with a Newer Version



CHANNEL 1

ADD 100 TO REFERENCE DESIGNATORS FOR CHANNEL 2

LAST USED	OBSOLETED
C196	118,119,121-129,135,139-149,170,188
D142	108,109,117,118
E102	
Q115	111
RN102	
R199	100,180,185
R399	351,354,384,388
R988	
S102	
U118	108

COMMON COMPONENTS

LAST USED	OBSOLETED
C1	
D2	
S1	
R14	5.9-11,13
U10	1-9

NOTES :

1. ALL RESISTORS ARE IN OHMS. 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. (*) DENOTES A NOT STATEMENT
4. PCB CPN: D 9101-5.
5. MODULE DOC. CPN: 043511-7.

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CROWN INTERNATIONAL, INC.
1718 W. MISHAWAKA RD. ELKHART IN. 46517 PHONE (219) 294-8000

SCALE	NONE	DWG. NO.	SHEET 2 OF 2	REV
PROJ. #	MD24758	J0747-6		B

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVAL CK	CM	EE	PE
		A	J2A WAS C10235-7. J2B WAS C10236-5. U107, U113, U207, U213, WERE C 6810-1. E100, E101, E102, E200, E201, E202, WERE C 4341-1. R132, R232 WERE A10285-19122. R343, R443 WERE 392K. R372, R472 WERE 10.2K.	09/24/97	TLM	KW			
T991644		B	INCORPORATE CHANGES OF EC 97E0221, 97E0162, & 98E0340.	09/04/99	DK				

INACTIVE
For Reference Use Only

CROWN INTERNATIONAL, INC. 1718 W. MISHAWAKA RD. ELKHART IN. 46517 PHONE (219) 294-8000							
SCM, MA-5000VZ MAIN						TOL. UNLESS SPECIFIED X.XX = ±0.02" X.XXX = ±0.010" DRILLS = ±0.003"	
PRINTS TO	DRAWN BY	DK	08/04/99	APPROVED BY:		DO NOT SCALE PRINT	
G	CHECKED	KW	04/29/97	CM	8-5-99	SUPERSEDES J0747-5 REV. A	
	SCALE	NONE		EE PW	04/28/98	E.C. T991644	
	PROJ. #	MD247S8		PE TS	04/28/96	DWG. NO. J0747-6	SHEET 1 OF 2 REV B
	FILENAME: J0747-5_B.SCM			NEXT ASSEMBLY:			

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E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS CK	ME	EE	PE
		○							

CHANNEL 1

CHANNEL 2

CHANNEL 1

ADD 100 TO REFERENCE DESIGNATORS FOR CHANNEL 2

LAST USED	OBSOLETED
C191	118, 119, 121-129, 136, 139-149, 170, 186
D134	108, 109, 117, 118
E102	
Q114	111
RN102	
R199	108, 160, 185
R389	351, 354, 384, 388
S102	
U117	108

COMMON COMPONENTS

LAST USED	OBSOLETED
C1	
D2	
S1	
R14	5, 9-11, 13
U10	1-9

NOTES :

1. ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. (N) DENOTES A NOT STATEMENT
4. PCB CPN: 0 6150-1
5. MODULE DOC. CPN: 043095-1

PRINTS TO
0

CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEMATIC; MA-5000VZ MAIN

DRAWN	TLH	07/13/92	APPROVED BY :			DO NOT SCALE PRINT
CHECKED	TLH	08/15/92	ME			SUPERSEDES J0489-5.SCM REV A
SCALE	NONE		EE			E.C.N.
PROJ #	D247		PE	TS	08/15/92	C.P.N. SHEET 2 OF 2 REV
NEXT ASSEMBLY						J0489-5 Ⓒ

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS CK	ME	EE	PE
		Ⓐ	R385, R465 WAS 10K. ADDED R386, R387, R486, R487 51 OHM 1/2W. ADDED C192, C193, C292, C293 0.047MF 100V. ADDED C194, C294 0.1 C 8604-8.	9/30/92	TLM				TS
		Ⓑ	ADDED R388, R488 C 5598-3 22.1K 1%. ADDED R389, R489 C 8235-8 237 OHM 1%. R331, 431 WERE C 3850-4, R332, 432 WERE C 2831-7. R135, 235 WERE C 3939-3. R4 WAS C 8862-2. R3 WAS C J622-5. R337 WAS C 4225-4. R344 & R444 WERE C 2880-0.	11/10/92	TLM				TS
		Ⓒ	DELETE R188 AND R488. R135 AND R235 WERE 5.76K	09/23/93	LCD				

CROWN INTERNATIONAL, INC.						
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000						
SCHEMATIC: MA-5000VZ MAIN						
PRINTS TO	DRAWN	TLM	07/13/92	APPROVED BY :		DO NOT SCALE PRINT
0	CHECKED	TLM	08/15/92	ME		SUPERSEDES J0489-5.SCH REV A
	SCALE	NONE		EE		E.C.N.
	PROJ #	D247		PE	TS 08/15/92	C.P.N. SHEET 1 OF 2 REV
NEXT ASSEMBLY						J0489-5 Ⓒ

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS LK	ME	EE	PE
		B	R588 & R592 WAS C 5727-0.	9/03/92	TLM				TS
	G9	C	ADDED R530 1.82K 1% & C536 0.001 100V AX. CERM	11/10/92	TLM			AA	TS
		D	C505,C526 AND C527 WERE C 2821-4. C500,C501,C508,C509 AND C534 WERE C 3409-7. C504 WAS C 3410-5. C524 AND C525 WERE C 3411-3. C506 AND C507 WERE C 5375-5. C531 AND C532 WERE C 2820-6. MOD. DOC.'S WERE 042935-7 AND 043097-7. PCB CPN.S WERE D8148-5 AND D7847-3	04/13/94	TLM				TS
93E306B		E	R561,569 AND 570 WERE 1W A10266-5133	05/18/94	TLM				TS
94-141 94-142		F	UPDATE 043293-2 TO REV. B UPDATE 043294-0 TO REV. A	09/06/94	LCD				JM
95-213		G	Q511,Q525 WERE 2SC4029 Q512,Q526 WERE 2SA1953 CORRECT NOTE 4	07/25/95	LCD				JM
00N0003		H	Q534,Q540 WERE MTS105(C 5891-4).	01/20/00	JAW				

LAST USED	OBSOLETED
C538	C514-C519, C535
D527	D508-D503
L503	
Q543	Q506
R599	R531-533
U503	U502

NOTES :

1. ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. PCB CPNS: D 8526-2 OUTPUT POSITIVE
   D 8527-0 OUTPUT NEGATIVE
   P10336-9 OUTPUT EMITTER POSITIVE (REV.A)
   P10342-7 OUTPUT EMITTER NEGATIVE
4. MODULE DOC CPN(S): 043293-2 OUTPUT POSITIVE
   043294-0 OUTPUT NEGATIVE
   042935-9 OUTPUT EMITTER POSITIVE (REV.A)
   042934-2 OUTPUT EMITTER NEGATIVE

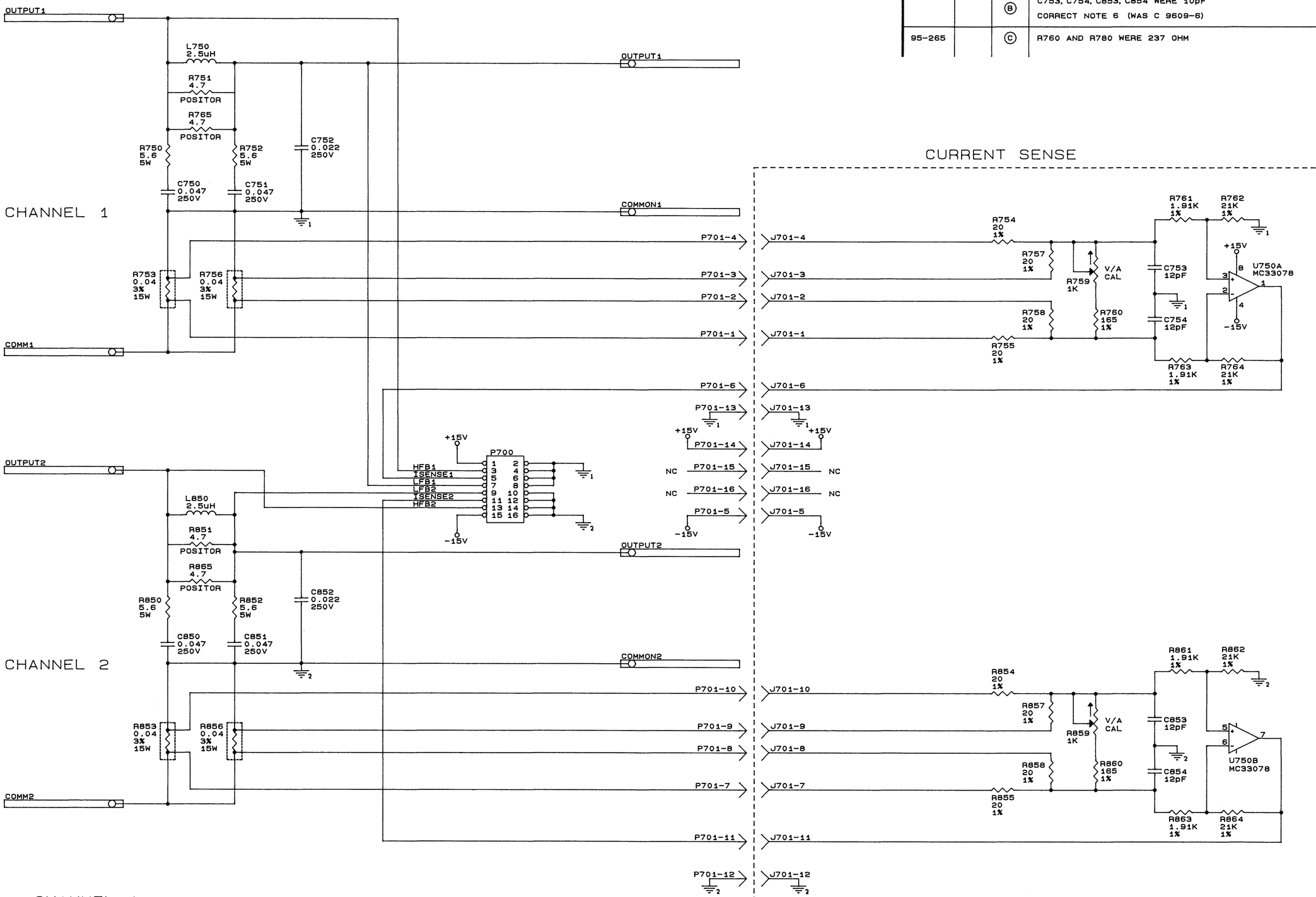
CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEMATIC, MA5000VZ OUTPUT

PRINTS TO		DRAWN	TLM	08/24/92	APPROVED BY :			DO NOT SCALE PRINT
G		CHECKED			ME			SUPERSEDES J0488-7 REV.E
		SCALE	NONE		EE			E.C.N.
		PROJ	D247		PE	TS	08/20/92	C.P.N. J0488-7 REV (H)
		NEXT ASSEMBLY						

C.P.N. J0487-9 REV (C)

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS CK	ME	EE	PE
		(A)	C750, 751, 850, 851 WERE C 8511-5 ARE NOW C 9609-6 NOTE 4 WAS D7994-3 NOTE 5 WAS Q432932-6 ADD NOTE 6	10/26/93	LCD			AA	
		(B)	C753, C754, C853, C854 WERE 10pF CORRECT NOTE 6 (WAS C 9609-6)	01/20/94	LCD				TS
95-265		(C)	R760 AND R780 WERE 237 OHM	11/06/95	LCD				



INACTIVE
For Reference Use Only

CHANNEL 1

LAST USED	OBSOLETED
C754	C700-C753
L750	L700-L749
R765	R700-R749
U750	U700-U749

CHANNEL 2

LAST USED	OBSOLETED
C854	C800-C853
L850	L800-L849
R865	R800-R849

NOTES :

1. ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. REFERENCE DESIGNATORS BEGIN AT 750/850.
4. PCB CPN: D 8372-1
5. MODULE CPN: Q43234-6 REV. B
6. CAPACITOR PART NUMBER C 9609-6 HAS BEEN CHANGED TO A10434-473JD

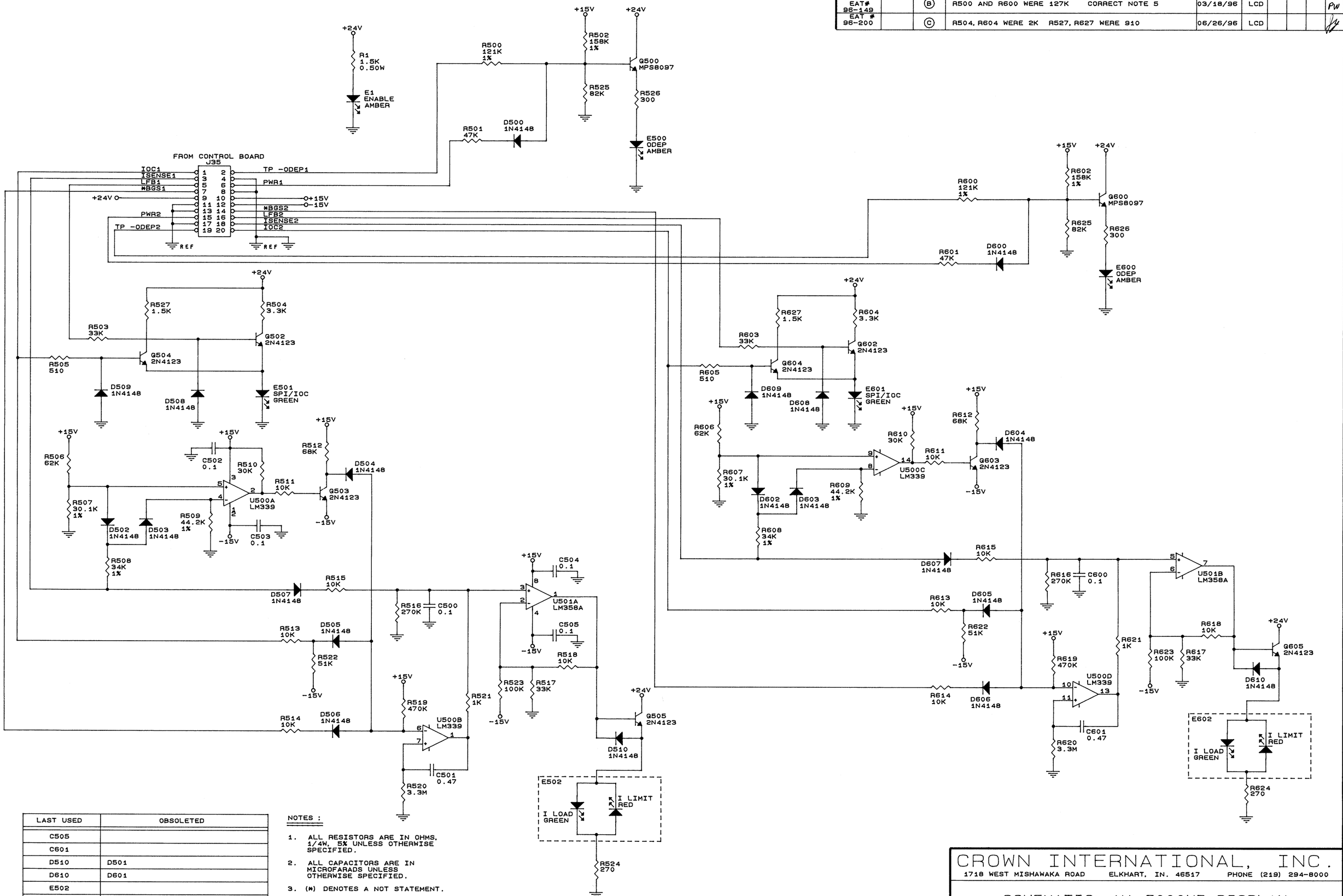
CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEMATIC; MA-5000VZ TERMINATOR

PRINTS TO		DRAWN	TLM	1/7/92	APPROVED BY :		DO NOT SCALE PRINT
G		CHECKED			ME		SUPERSEDES J0487-9 REV B
		SCALE	NONE		EE		E.C.N.
		PROJ #	D247		PE	TS 08/15/92	C.P.N. J0487-9 REV (C)
		NEXT ASSEMBLY					

C.P.N. J0491-1 REV (C)

E.C.N.	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS CK	ME	EE	PE
	F5 E2	(A)	CORRECTED CPN ON R502, R602 WAS C 2876-8 ADDED MODULE DOC. CPN NOTE.	9/21/92	TLM				TS
EAT# 96-149		(B)	R500 AND R600 WERE 127K CORRECT NOTE 5	03/18/96	LCD				PW
EAT # 96-200		(C)	R504, R604 WERE 2K R527, R627 WERE 910	06/26/96	LCD				



LAST USED	OBSOLETED
C505	
C601	
D510	D501
D610	D601
E502	
E602	
R527	
R627	
Q505	Q501
Q605	Q601
U501	

NOTES :

1. ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. (*) DENOTES A NOT STATEMENT.
4. PCB CPN: D7845-7 (REV. A)
5. MODULE DOC. CPN: Q42929-2 (REV. D)

PRINTS TO	
G	

CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEMATIC; MA-5000VZ DISPLAY

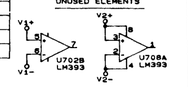
DRAWN	TLM	7-29-91	APPROVED BY :			DO NOT SCALE PRINT
CHECKED			ME			SUPERSEDES J0491-1.SCM REV. -
SCALE	NONE		EE	AA	8/10/92	E.C.N.
PROJ #	D247		PE	TS	8/10/92	C.P.N. J0491-1 REV (C)
NEXT ASSEMBLY						

EAT #	ZONE	REV	DESCRIPTION	DATE	BY	APPROVALS
		A	ADDED C708, C715, C716, C738-C741, AND L1 R705 WAS 33K, R706 WAS 51K, R738 WAS 2.2K.	01-31-96	KLW	

LAST USED	OBSOLETED
C741	723
D720	708, 716
E701	
F702	
J733	700-731
K701	
P751	706, 717, 720, 723, 725, 727, 746-748
Q711	
R799	736
S701	
U716	714

LAST USED	OBSOLETED
C818	801, 803-809, 811, 813
D811	802, 809
J833	800-831
P854	800-831, 834-850
Q812	803-809
R815	

UNUSED ELEMENTS



NOTES:

1. ALL RESISTORS ARE IN OHMS, 1/4W 5% UNLESS OTHERWISE SPECIFIED.
2. ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.
3. ALL DIODES ARE 1N4004 UNLESS OTHERWISE SPECIFIED.
4. PCB CPN: D 8829-0 REV. A.
5. MODULE CPN'S: G43392-2 REV. B AND G43467-2 REV. A.
6. INSTALL 4.7K OHM RESISTOR FOR LOCK HIGH OPTION.
7. WHEN FACTORY WIRED FOR 100/120V USE 30A FUSE.
   WHEN FACTORY WIRED FOR 200/208/230/240V USE 20A FUSE.
8. G43392-2 DOES NOT USE C708, C715, C716, AND L1. INSTALL JUMPER WIRE IN PLACE OF L1.

CROWN INTERNATIONAL, INC.
1718 WEST MISHAWAKA ROAD ELKHART, IN. 46517 PHONE (219) 294-8000

SCHEM, MA5000VZ CONTROL

PRINTS TO			DRAWN	TLH	05-12-95	APPROVED BY :			DO NOT SCALE PRINT
G			CHECKED			ME			SUPERSEDES J0490-3.SCH REV. J
			SCALE	NONE		EE	PW	8/31/95	E.C.N.
			PROJ #	0247		PE	TS	8-31-95	C.P.N. J0588-4 REV A
			NEXT ASSEMBLY						