

XA Series Power Amplifiers Schematic

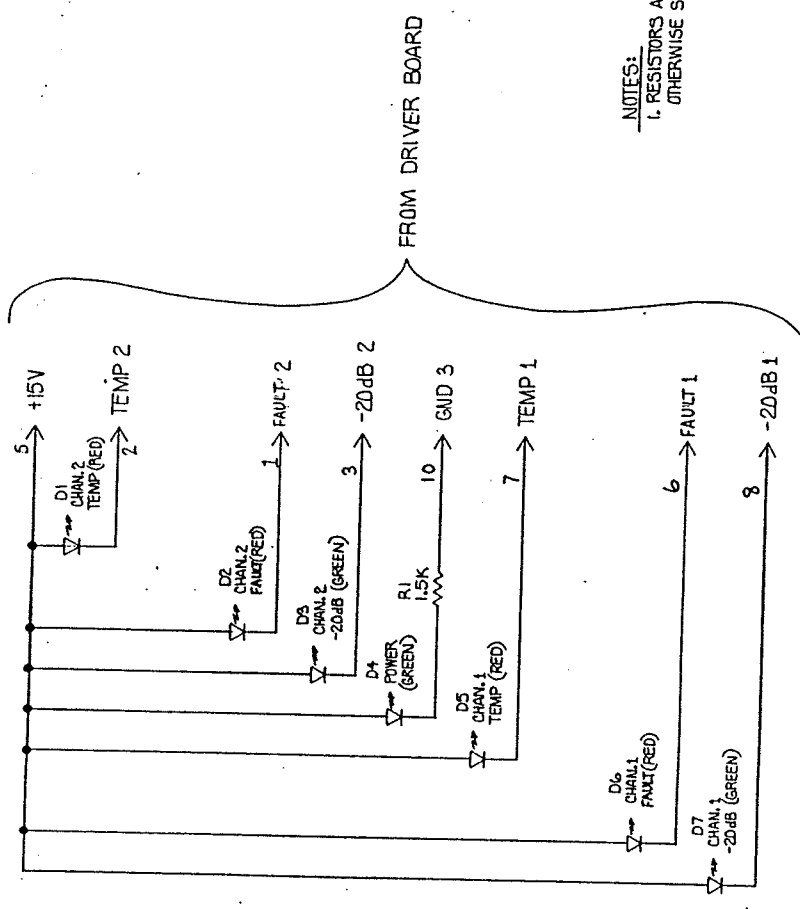
B I A M P[®]
—
S Y S T E M S

XA Series

Schematic

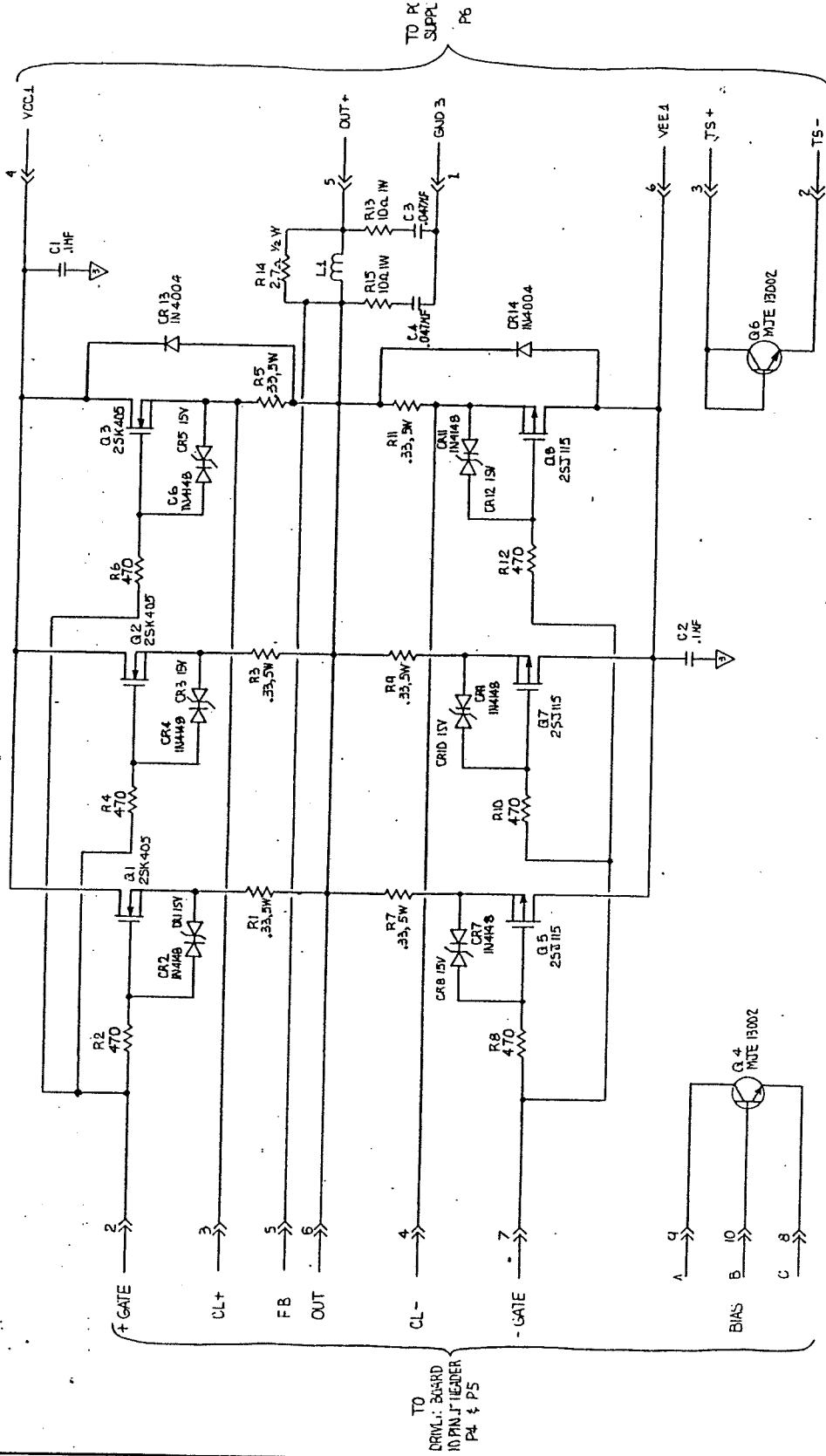
B I A M P[®]

S Y S T E M S



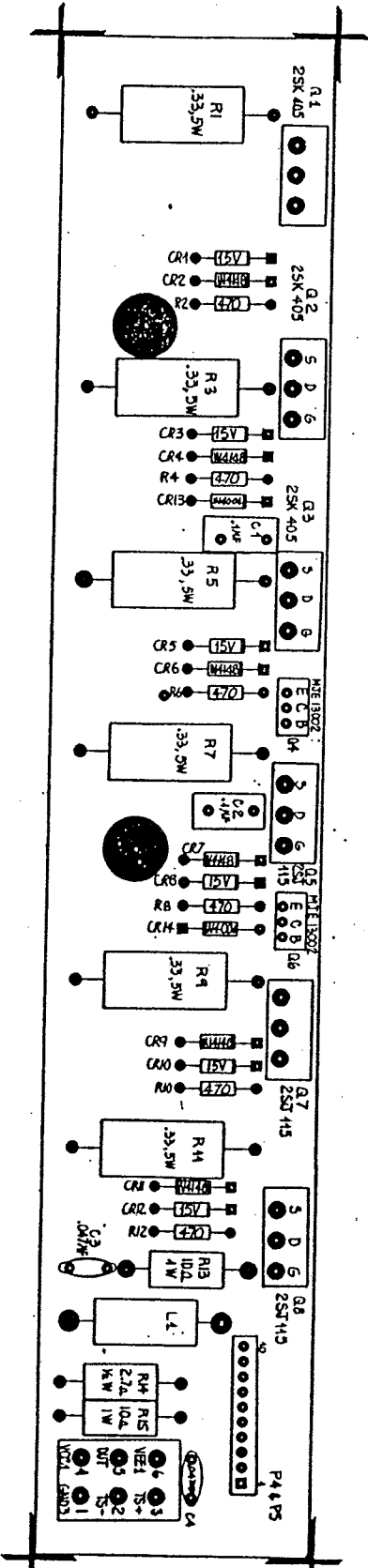
NOTES:
 1. RESISTORS ARE GIVEN IN OHMS UNLESS OTHERWISE SPECIFIED.

REV.	ECO	CHANGE
A.	1/11-87	CHGD 04-06 FROM TIP24 TO MJE1300Z
DATE		7/81



NOTE:
 1. FOR XA300, Q2, G7, R4, R10, R13, R14, CR3, CR4, CR1, CR10, ARE NOT STUFFED.

biamp	
REV.	1/11-87
DATE	7/81
DESIGNER	PL0T
NO.	10-09-86
REV.	10-09-86
NO.	10-09-86
REV.	10-09-86
NO.	10-09-86
REV.	10-09-86
NO.	10-09-86



REDUCE TO 8.000"



REV	DATE	CHANGE	PAGE
A	171-51	CHK'D 844-06 FROM TRPM TO RSE J3002	22941

NOTE:

1. FOR XA300, Q2, Q7, R4, R10, R3, R9, CR3, CR4, CR7, CR10, ARE NOT STUFFED.

BIAMP SYSTEMS INC.

 1275 E. 12th St.

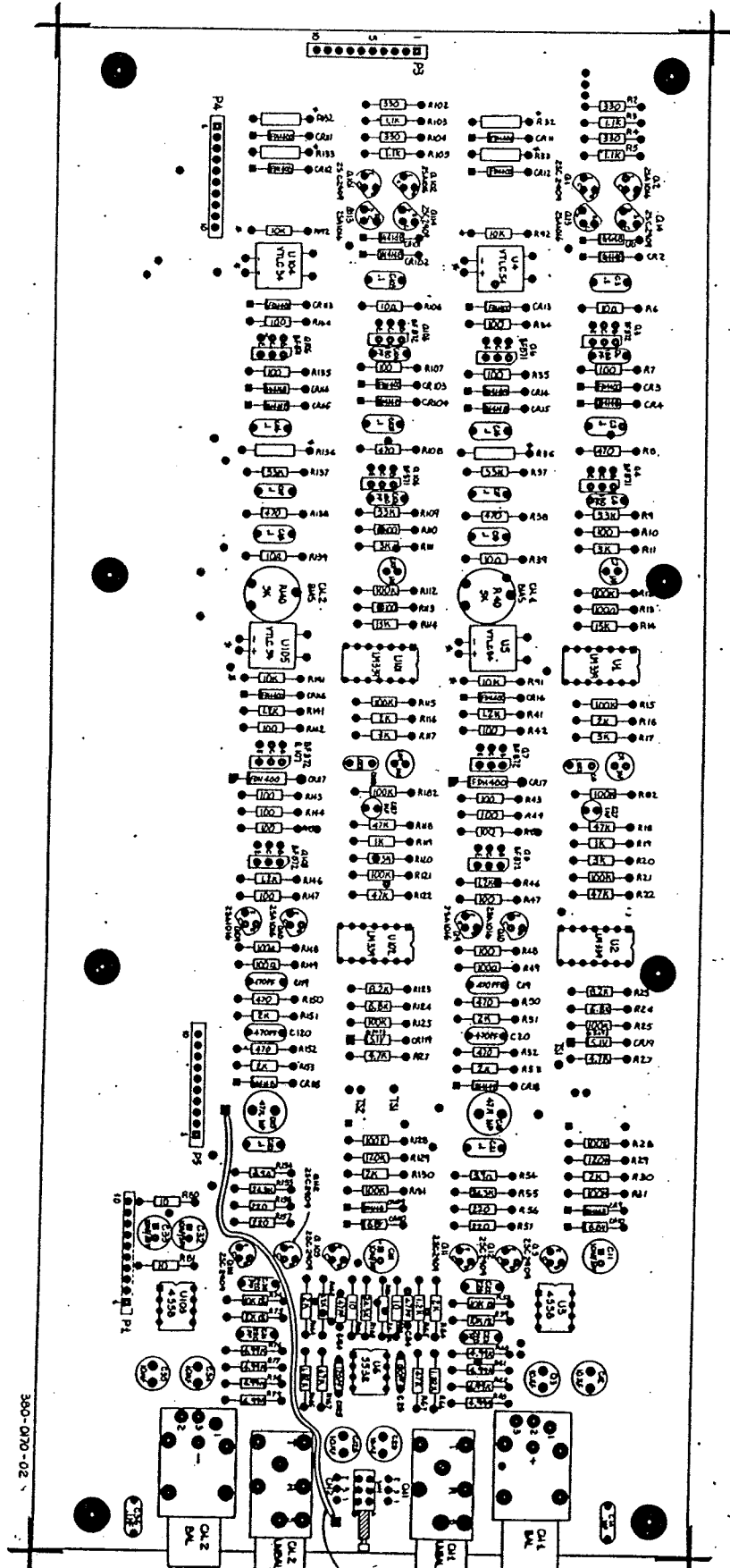
 Grand Rapids, MI 49508

 (616) 231-0001

 FAX: (616) 231-0002

REDUCE TO 7.000"

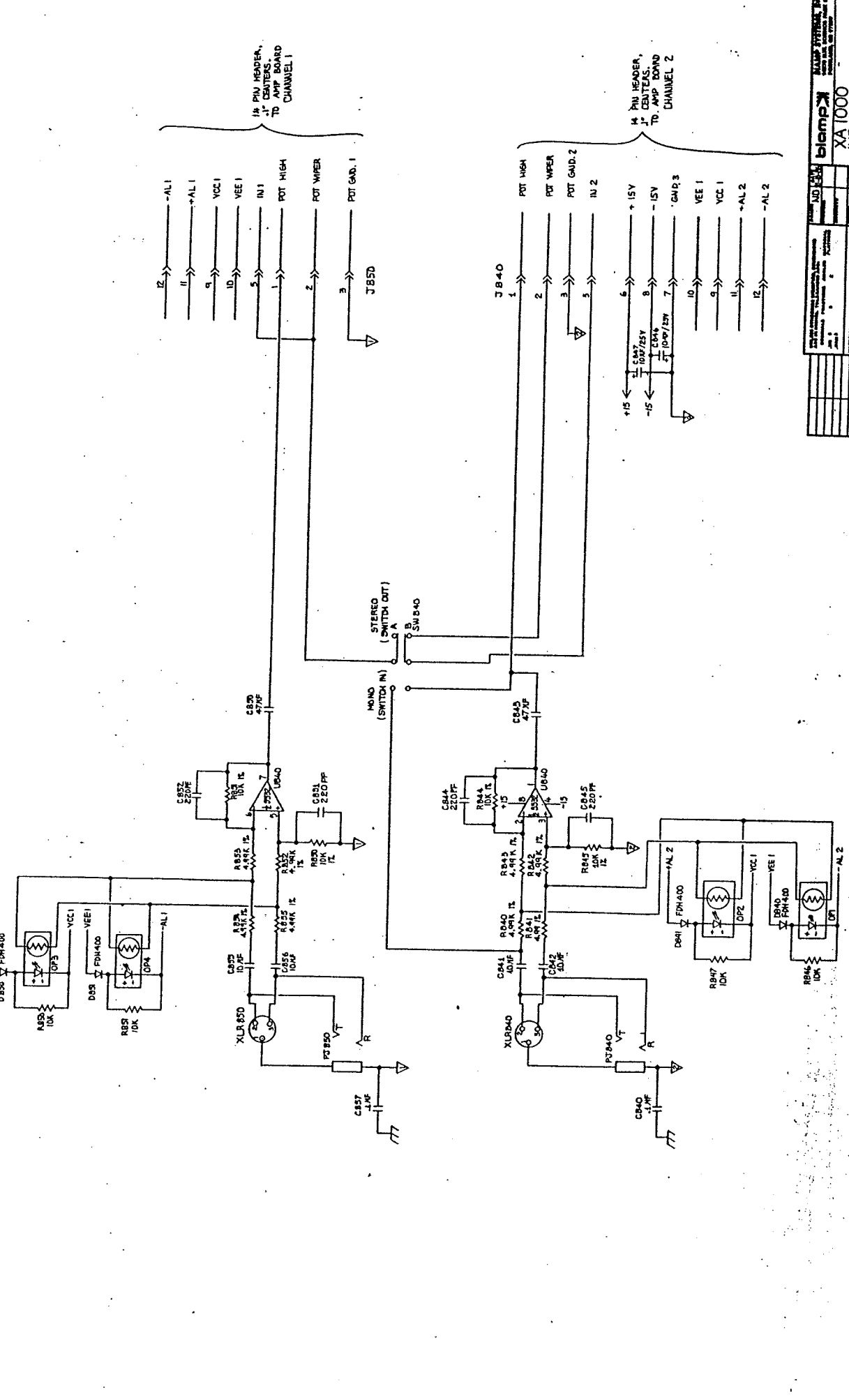
REDUCE TO 15.000"

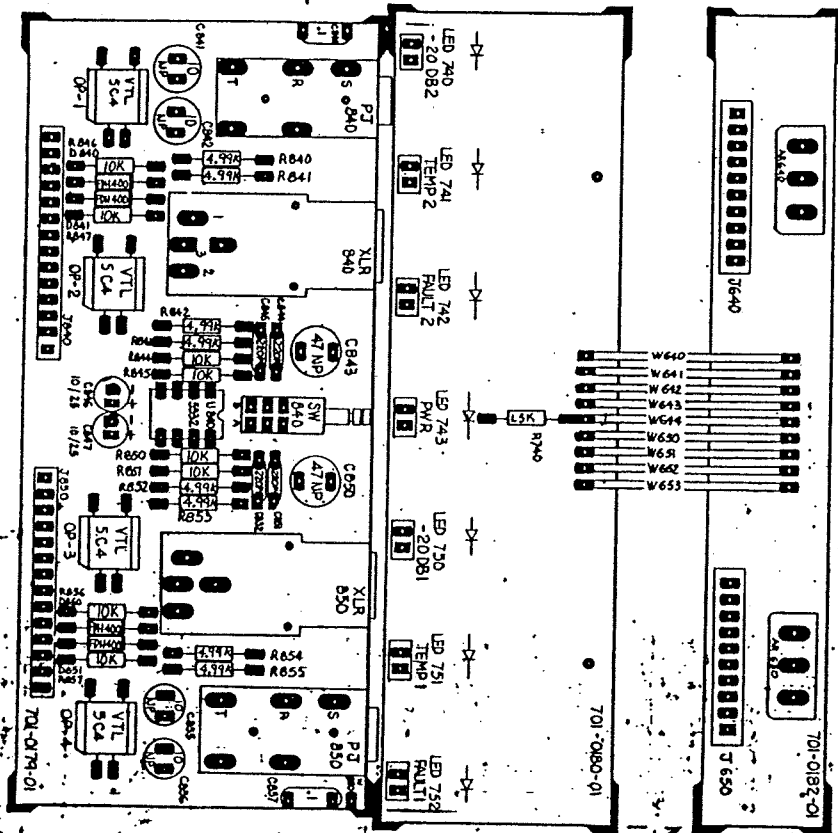


R32	1R32	10K	10K
R33	1R33	5K	5K
R34	1R34	10K	10K
R35	1R35	10K	10K
R36	1R36	10K	10K
R37	1R37	10K	10K
R38	1R38	10K	10K
R39	1R39	10K	10K
R40	1R40	10K	10K
R41	1R41	10K	10K
R42	1R42	10K	10K
R43	1R43	10K	10K
R44	1R44	10K	10K
R45	1R45	10K	10K
R46	1R46	10K	10K
R47	1R47	10K	10K
R48	1R48	10K	10K
R49	1R49	10K	10K
R50	1R50	10K	10K
R51	1R51	10K	10K
R52	1R52	10K	10K
R53	1R53	10K	10K
R54	1R54	10K	10K
R55	1R55	10K	10K
R56	1R56	10K	10K
R57	1R57	10K	10K
R58	1R58	10K	10K
R59	1R59	10K	10K
R60	1R60	10K	10K
R61	1R61	10K	10K
R62	1R62	10K	10K
R63	1R63	10K	10K
R64	1R64	10K	10K
R65	1R65	10K	10K
R66	1R66	10K	10K
R67	1R67	10K	10K
R68	1R68	10K	10K
R69	1R69	10K	10K
R70	1R70	10K	10K
R71	1R71	10K	10K
R72	1R72	10K	10K
R73	1R73	10K	10K
R74	1R74	10K	10K
R75	1R75	10K	10K
R76	1R76	10K	10K
R77	1R77	10K	10K
R78	1R78	10K	10K
R79	1R79	10K	10K
R80	1R80	10K	10K
R81	1R81	10K	10K
R82	1R82	10K	10K
R83	1R83	10K	10K
R84	1R84	10K	10K
R85	1R85	10K	10K
R86	1R86	10K	10K
R87	1R87	10K	10K
R88	1R88	10K	10K
R89	1R89	10K	10K
R90	1R90	10K	10K
R91	1R91	10K	10K
R92	1R92	10K	10K
R93	1R93	10K	10K
R94	1R94	10K	10K
R95	1R95	10K	10K
R96	1R96	10K	10K
R97	1R97	10K	10K
R98	1R98	10K	10K
R99	1R99	10K	10K
R100	1R100	10K	10K

NO.	REV.	DATE	BY
1	1	10/1/80	J. K.
2	1	10/1/80	J. K.
3	1	10/1/80	J. K.
4	1	10/1/80	J. K.
5	1	10/1/80	J. K.
6	1	10/1/80	J. K.
7	1	10/1/80	J. K.
8	1	10/1/80	J. K.
9	1	10/1/80	J. K.
10	1	10/1/80	J. K.

Q1	1N4148	1N4148
Q2	1N4148	1N4148
Q3	1N4148	1N4148
Q4	1N4148	1N4148
Q5	1N4148	1N4148
Q6	1N4148	1N4148
Q7	1N4148	1N4148
Q8	1N4148	1N4148
Q9	1N4148	1N4148
Q10	1N4148	1N4148
Q11	1N4148	1N4148
Q12	1N4148	1N4148
Q13	1N4148	1N4148
Q14	1N4148	1N4148
Q15	1N4148	1N4148
Q16	1N4148	1N4148
Q17	1N4148	1N4148
Q18	1N4148	1N4148
Q19	1N4148	1N4148
Q20	1N4148	1N4148
Q21	1N4148	1N4148
Q22	1N4148	1N4148
Q23	1N4148	1N4148
Q24	1N4148	1N4148
Q25	1N4148	1N4148
Q26	1N4148	1N4148
Q27	1N4148	1N4148
Q28	1N4148	1N4148
Q29	1N4148	1N4148
Q30	1N4148	1N4148
Q31	1N4148	1N4148
Q32	1N4148	1N4148
Q33	1N4148	1N4148
Q34	1N4148	1N4148
Q35	1N4148	1N4148
Q36	1N4148	1N4148
Q37	1N4148	1N4148
Q38	1N4148	1N4148
Q39	1N4148	1N4148
Q40	1N4148	1N4148
Q41	1N4148	1N4148
Q42	1N4148	1N4148
Q43	1N4148	1N4148
Q44	1N4148	1N4148
Q45	1N4148	1N4148
Q46	1N4148	1N4148
Q47	1N4148	1N4148
Q48	1N4148	1N4148
Q49	1N4148	1N4148
Q50	1N4148	1N4148
Q51	1N4148	1N4148
Q52	1N4148	1N4148
Q53	1N4148	1N4148
Q54	1N4148	1N4148
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Q56	1N4148	1N4148
Q57	1N4148	1N4148
Q58	1N4148	1N4148
Q59	1N4148	1N4148
Q60	1N4148	1N4148
Q61	1N4148	1N4148
Q62	1N4148	1N4148
Q63	1N4148	1N4148
Q64	1N4148	1N4148
Q65	1N4148	1N4148
Q66	1N4148	1N4148
Q67	1N4148	1N4148
Q68	1N4148	1N4148
Q69	1N4148	1N4148
Q70	1N4148	1N4148
Q71	1N4148	1N4148
Q72	1N4148	1N4148
Q73	1N4148	1N4148
Q74	1N4148	1N4148
Q75	1N4148	1N4148
Q76	1N4148	1N4148
Q77	1N4148	1N4148
Q78	1N4148	1N4148
Q79	1N4148	1N4148
Q80	1N4148	1N4148
Q81	1N4148	1N4148
Q82	1N4148	1N4148
Q83	1N4148	1N4148
Q84	1N4148	1N4148
Q85	1N4148	1N4148
Q86	1N4148	1N4148
Q87	1N4148	1N4148
Q88	1N4148	1N4148
Q89	1N4148	1N4148
Q90	1N4148	1N4148
Q91	1N4148	1N4148
Q92	1N4148	1N4148
Q93	1N4148	1N4148
Q94	1N4148	1N4148





REV	DATE	DESCRIPTION	CHANGE
01		CHG'D CIRCUIT BOARD	
02			
03			

Blom

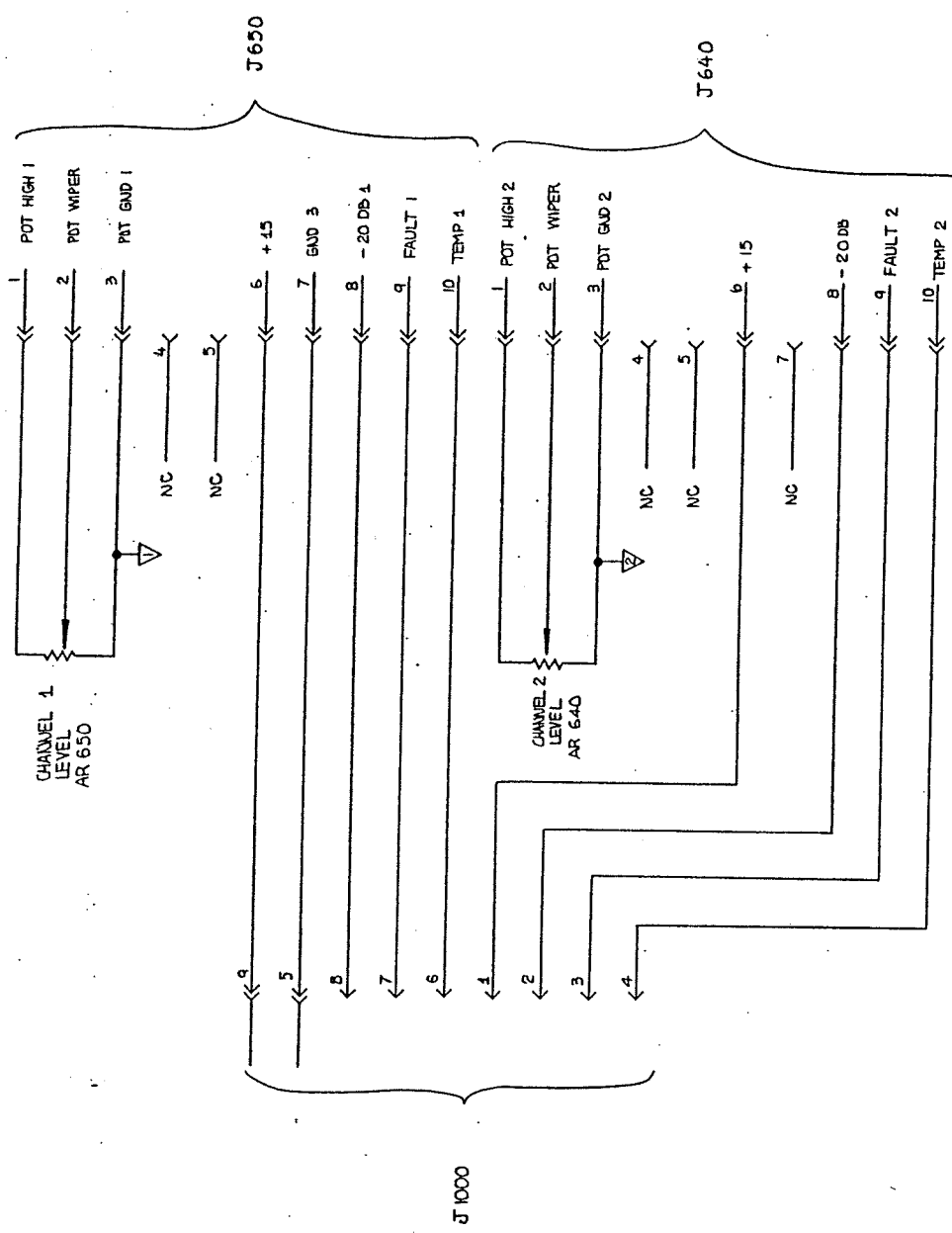
701-0182-01 REV. 01

2 X

3-18-81

IND

REV.	ECN	CHECKED	CHANGE	DATE
-01			CHG'D CIRCUIT BOARD	4-
01A			CORRECTED DRAWING J650 AR 640 WAS LEAD & J641.	6-1

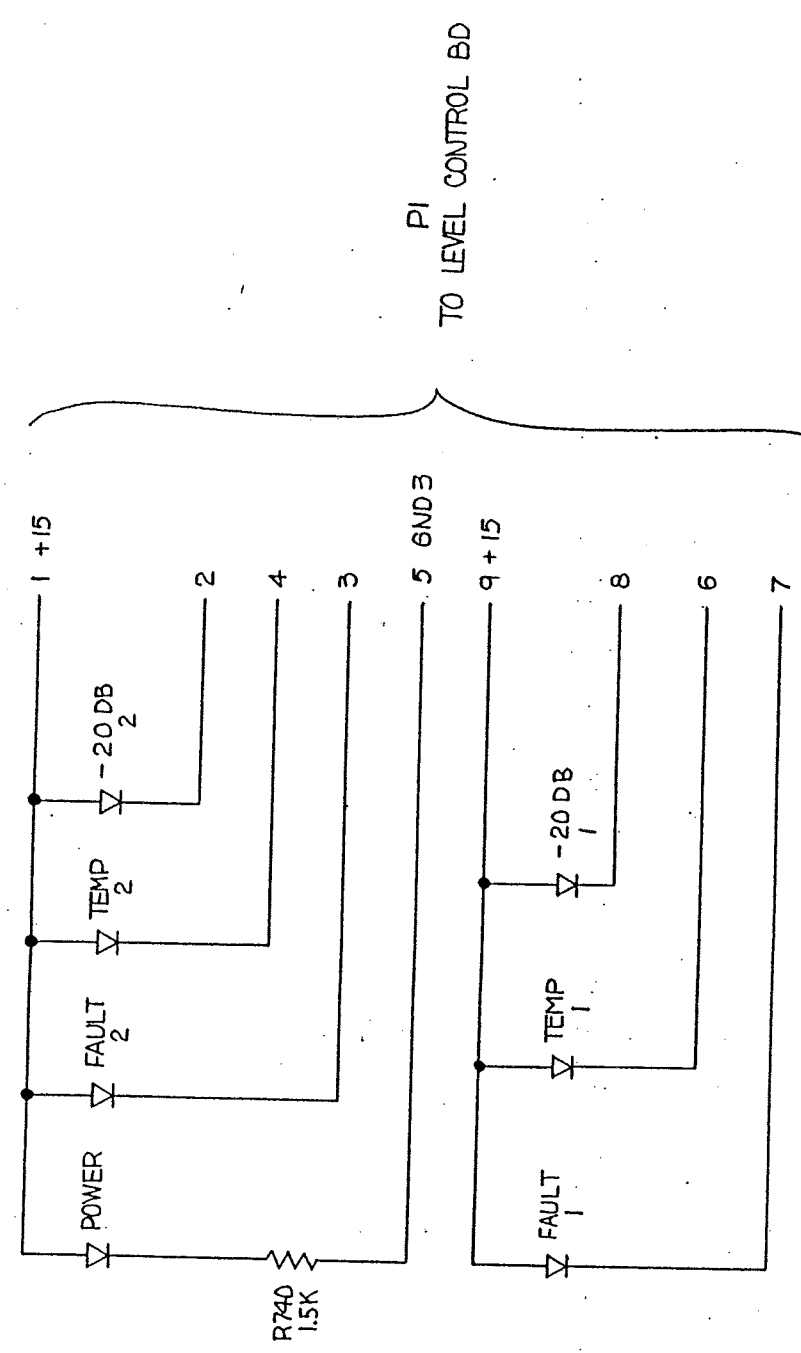


blomp		REV
DATE	BY	RE
11-15-86	UTS	
11-15-86	ND	

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REV. E.C.D. CHANGE DATE BY

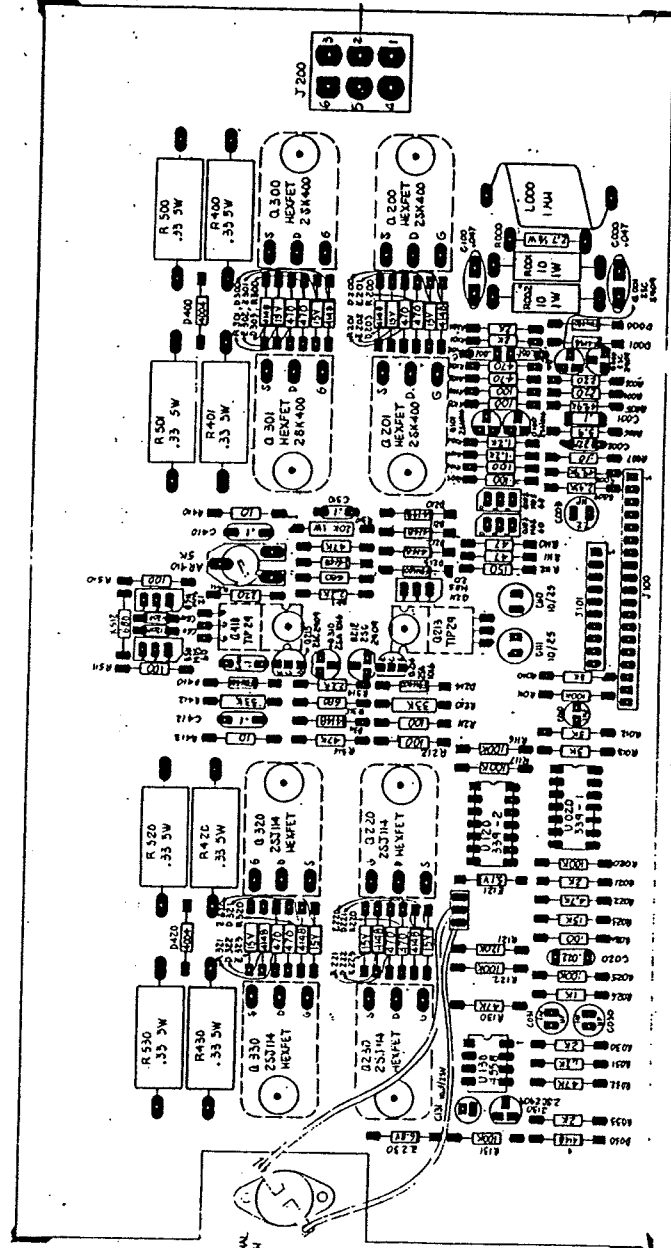
A B C D



PART NO.		DESCRIPTION		SIZE	QTY.
DRAWN	JD	DATE	BIAMP SYSTEMS INC.		
CHECKED		8-3-87	XA 1000		
ENGINEER			LED BOARD		
DESIGN					
APPROVED					
MODEL	NEXT DWG.				
APPLICATION					
				SCALE	REV.
				XXXIE	700-0180-00

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		MATERIAL	
DECIMALS	FRACTIONS	ANGLES	PLATNESS
.XX ±	±	±	
.XXX ±			
MATERIAL		FINISH	
SHARP EDGES 45°		YES	
MINIMUM RADIUS .018 MAX.		NO	

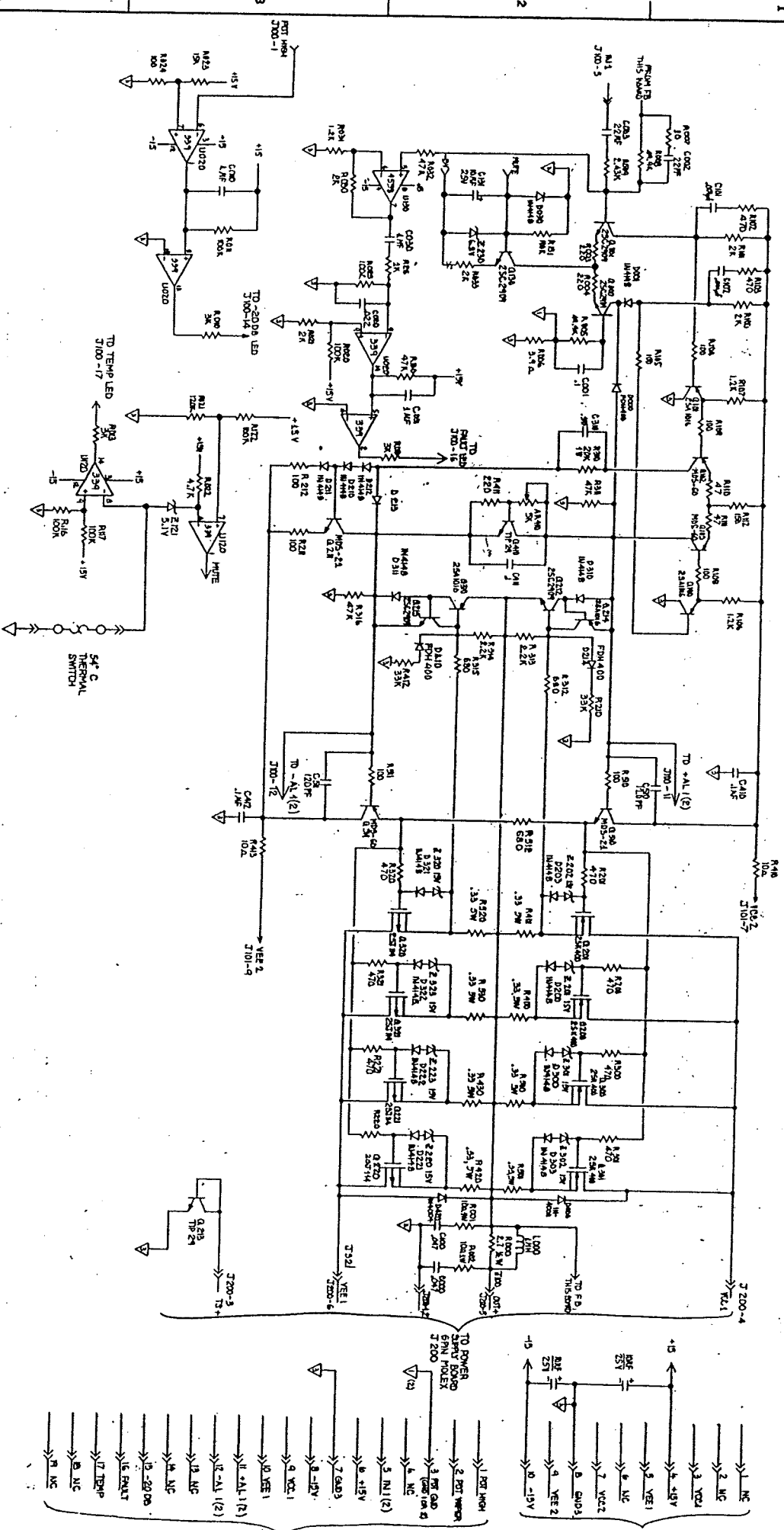
REV	DATE	BY	CHKD	DESCRIPTION
1				INITIAL CIRCUIT BOARD
2				SHORT CIRCUIT BOARD
3				CONNECT LABEL AND OTHER
4				UP DATE FOR 300-0100-02-003



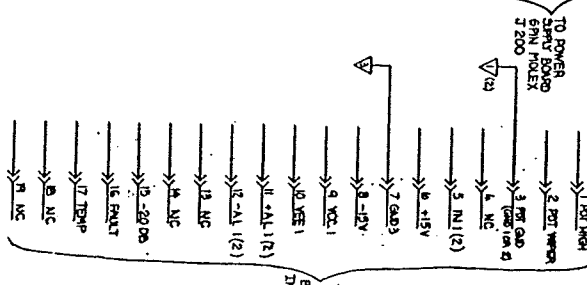
REV	DATE	BY	CHKD	DESCRIPTION
1				INITIAL CIRCUIT BOARD
2				SHORT CIRCUIT BOARD
3				CONNECT LABEL AND OTHER
4				UP DATE FOR 300-0100-02-003

blamp		KAMP SYSTEMS	
COMPONENT LAYOUT			
XA 1000 AMP BOARD			
REV	DATE	BY	CHKD
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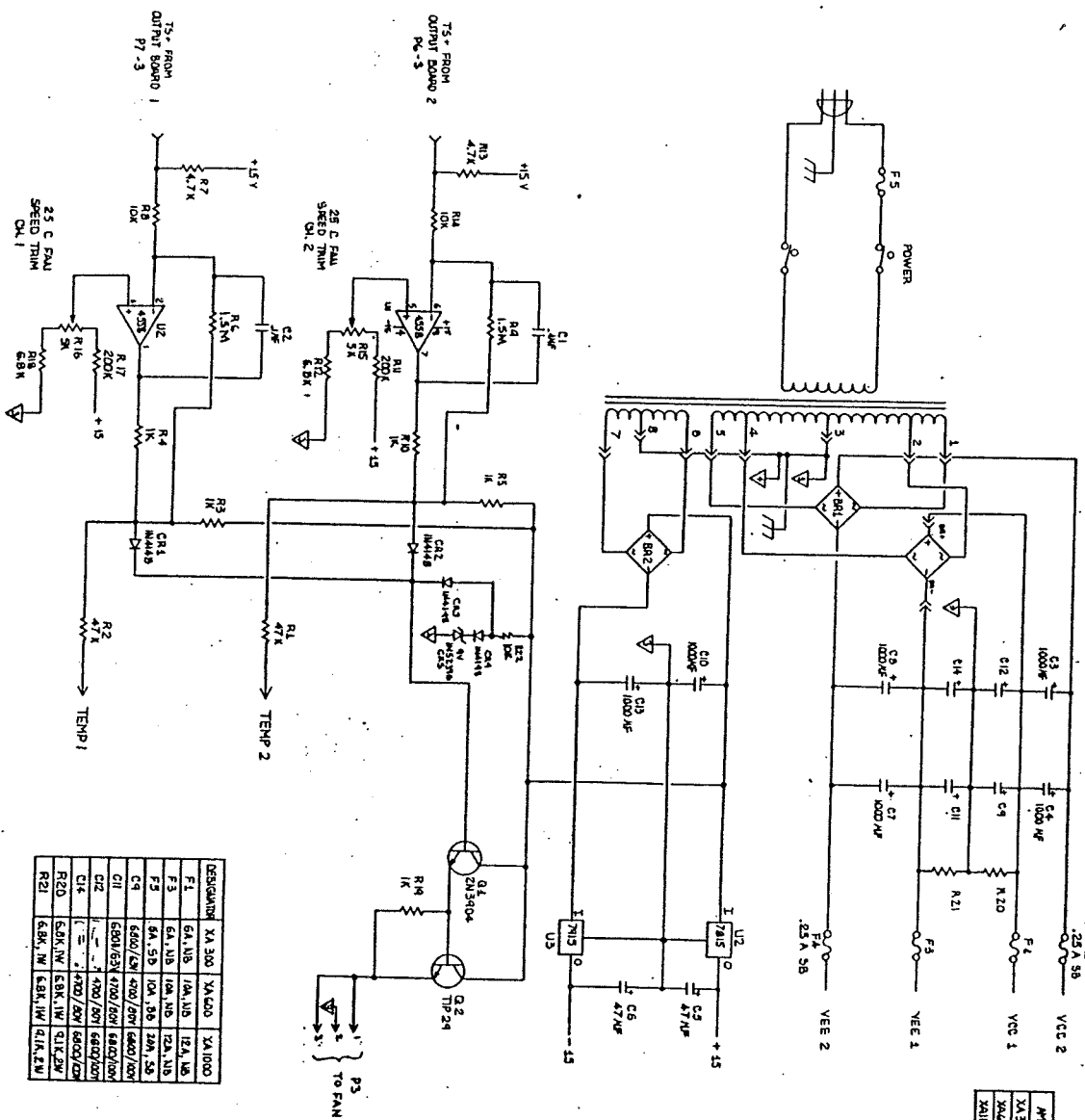


NO.	REV.	DESCRIPTION
1		CHG'S SMART BOARD
2		SMART-CIRCUIT M89



INDUSTRIAL Biometric
 1000 W. ...
 ...

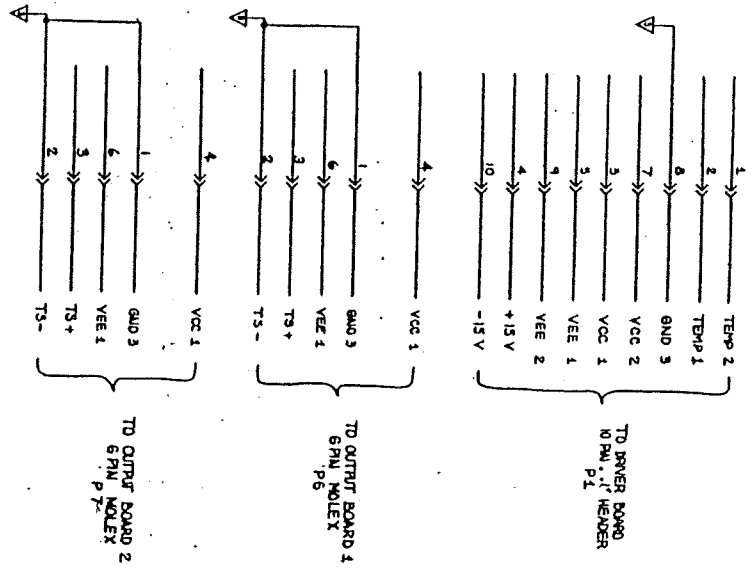
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RESISTOR	KA 300	KA 500	KA 1000
F1	6A 1A5	10A 1A5	12A 1A5
F2	6A 5B	10A 1B	12A 1B
F3	6A 5B	10A 1B	12A 1B
C1	680/50V	4700/50V	6800/50V
C2	680/50V	4700/50V	6800/50V
C3	1000µF	1000µF	1000µF
C4	1000µF	1000µF	1000µF
C7	1000µF	1000µF	1000µF
C8	1000µF	1000µF	1000µF
C9	1000µF	1000µF	1000µF
C10	1000µF	1000µF	1000µF
C11	1000µF	1000µF	1000µF
R1	47K	47K	47K
R2	47K	47K	47K
R3	1K	1K	1K
R4	1K	1K	1K
R5	1K	1K	1K
R6	1K	1K	1K
R7	4.7K	4.7K	4.7K
R8	10K	10K	10K
R9	1K	1K	1K
R10	1K	1K	1K
R11	20K	20K	20K
R12	5K	5K	5K
R13	4.7K	4.7K	4.7K
R14	1.5M	1.5M	1.5M
R15	1.5M	1.5M	1.5M
R16	20K	20K	20K
R17	20K	20K	20K
R18	5K	5K	5K
R19	5K	5K	5K
R20	5K	5K	5K
R21	5K	5K	5K

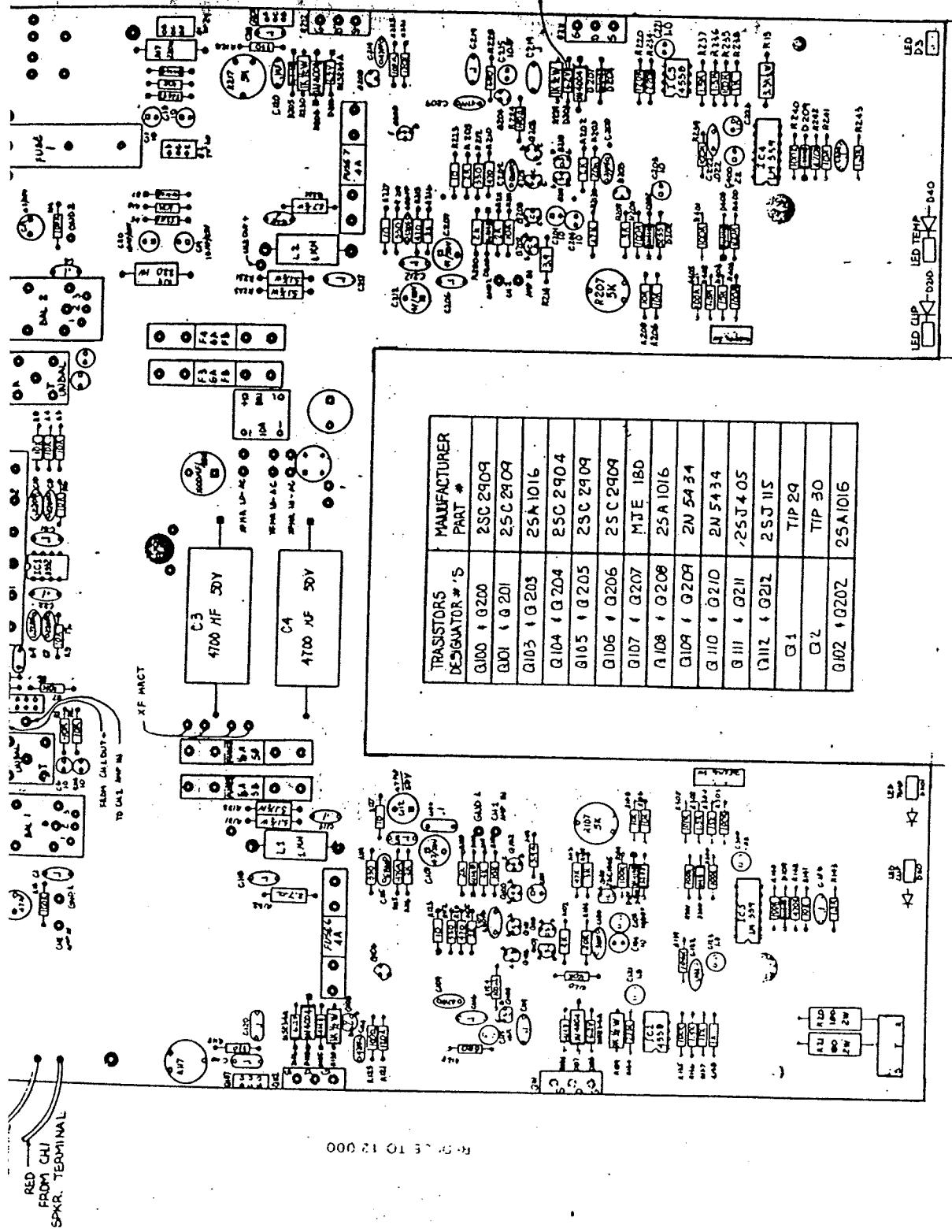
WVP	VCC1	VCC2	VEE1	VEE2
KA 300	-52	-70	-52	-70
KA 500	-77	-97	-77	-97
KA 1000	-104	-124	-104	-124

SPEAKER FUSE VALUE	KA 300	KA 500	KA 1000
	8A	10A	12A



REV.	DATE	DESCRIPTION
A	05-87	DATE PLAIN FROM 78K TO 78L
B	04-87	ADD PIN CONNECTION AND CLAMPCONS

KAMPO K.
 KA 300/500/1000
 SUPPLY BOARD
 10 PIN 1
 6 PIN 1



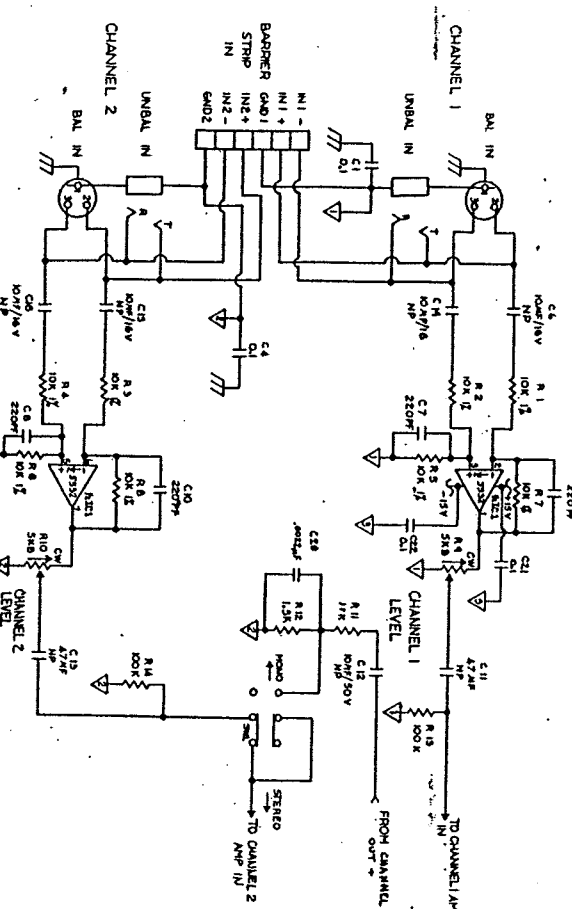
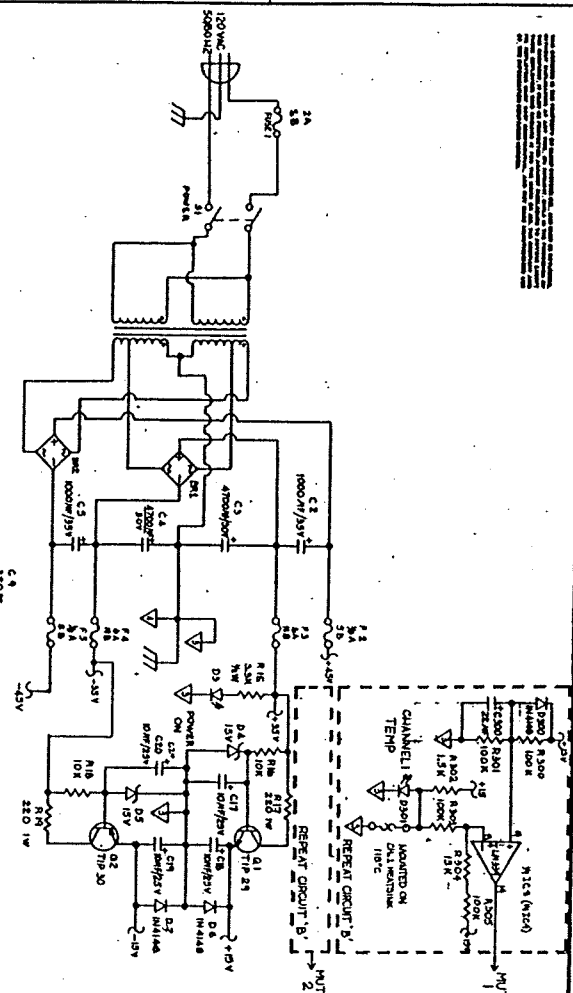
TRANSISTORS DESIGNATOR # 'S	MANUFACTURER	PART #
Q100	2SC 2909	2SC 2909
Q101	2SC 2909	2SC 2909
Q103	2SA 1016	2SA 1016
Q104	2SC 2904	2SC 2904
Q105	2SC 2909	2SC 2909
Q106	2SC 2909	2SC 2909
Q107	MJE 180	MJE 180
Q108	2SA 1016	2SA 1016
Q109	2N 54 34	2N 54 34
Q110	2N 54 34	2N 54 34
Q111	2N 54 05	2N 54 05
Q112	2SJ 115	2SJ 115
Q1	TIP 29	TIP 29
Q2	TIP 30	TIP 30
Q102	2SA 1016	2SA 1016

RAMPA

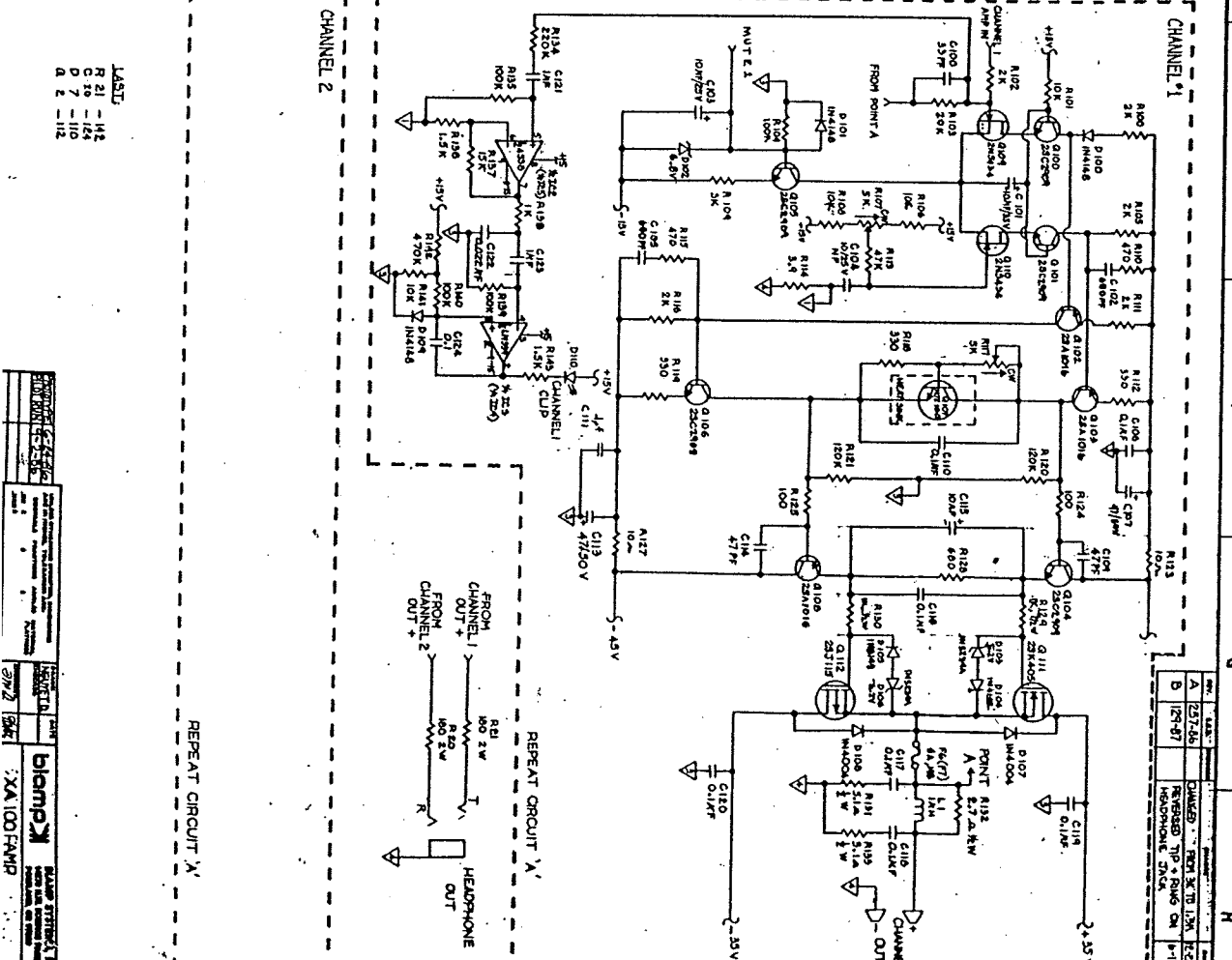
N.T.S.
10-13-88
NDT

COMPONENT LAYOUT
XA 1M DARY AMD

RESISTOR VALUES IN OHMS UNLESS OTHERWISE SPECIFIED
 CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED
 ALL CAPACITORS ARE POLARIZED UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1% TOLERANCE UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 2 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 5 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 10 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 20 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 50 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 100 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 200 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 500 WATT UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1000 WATT UNLESS OTHERWISE SPECIFIED



- NOTES
1. THIS IS GND1 ON CHANNEL 1 AMP AND GND 2 ON CHANNEL 2 AMP. CHANNEL 1 SHOWN.
 2. ALL UNMARKED DIODES ARE IN4148.
 3. ALL RESISTORS ARE GIVEN IN OHMS.
 4. ALL CAPACITORS ARE GIVEN IN MICROFARADS.



- LAST:
- R 21 - 1K
 - C 50 - 10K
 - D 7 - 1N4148
 - D 2 - 1N4148

ITEM	QTY	DESCRIPTION
1	1	TRANSFORMER
2	1	BRIDGE RECTIFIER
3	1	7805V REGULATOR
4	1	7815V REGULATOR
5	1	150W SPEAKER
6	1	120VAC TRANSFORMER
7	1	120VAC TRANSFORMER
8	1	120VAC TRANSFORMER
9	1	120VAC TRANSFORMER
10	1	120VAC TRANSFORMER
11	1	120VAC TRANSFORMER
12	1	120VAC TRANSFORMER
13	1	120VAC TRANSFORMER
14	1	120VAC TRANSFORMER
15	1	120VAC TRANSFORMER
16	1	120VAC TRANSFORMER
17	1	120VAC TRANSFORMER
18	1	120VAC TRANSFORMER
19	1	120VAC TRANSFORMER
20	1	120VAC TRANSFORMER