

**1200/2400**

# **Schematics**

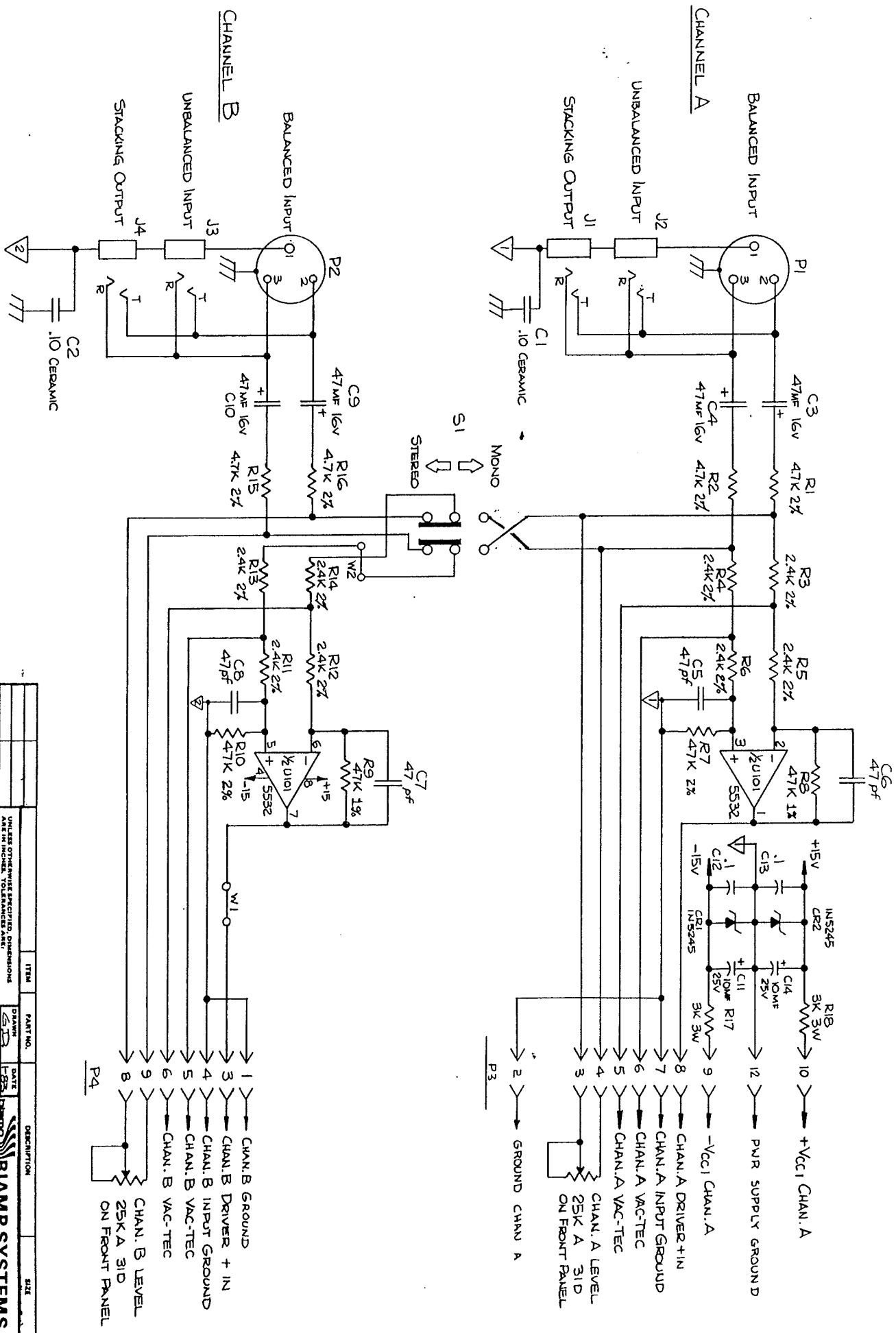
**B I A M P<sup>®</sup>**

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S Y S T E M S

**10074 SW Arctic Drive      Beaverton, OR 97005      503-641-7287**

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REV.	E.O.	CHANGE	DATE	BY
8	032-83	ADDED P3-2 CH A GND	3-83	JD

DESCRIPTION	SIZE	QTY.
<b>BIAMP SYSTEMS INC.</b>		
SCHEMATIC - INPUT ASSEMBLY		
DATE	1-83	
DESIGNED BY	JD	
CHECKED BY		
ENGINEER		
DESIGN		
APPROVED BY		
FINISH		
MODEL		
APPLICATION		
NEXT DWG.		
BREAK SHAPE EGGS, 45°	YES	NO
CHANNEL OR MOTIVE STR. WAVE.		
SCALE	1:1	
DWG. NO.	B3B-0002-00	
DO NOT SCALE DRAWING		
SHEET	2	OF 2

4

3

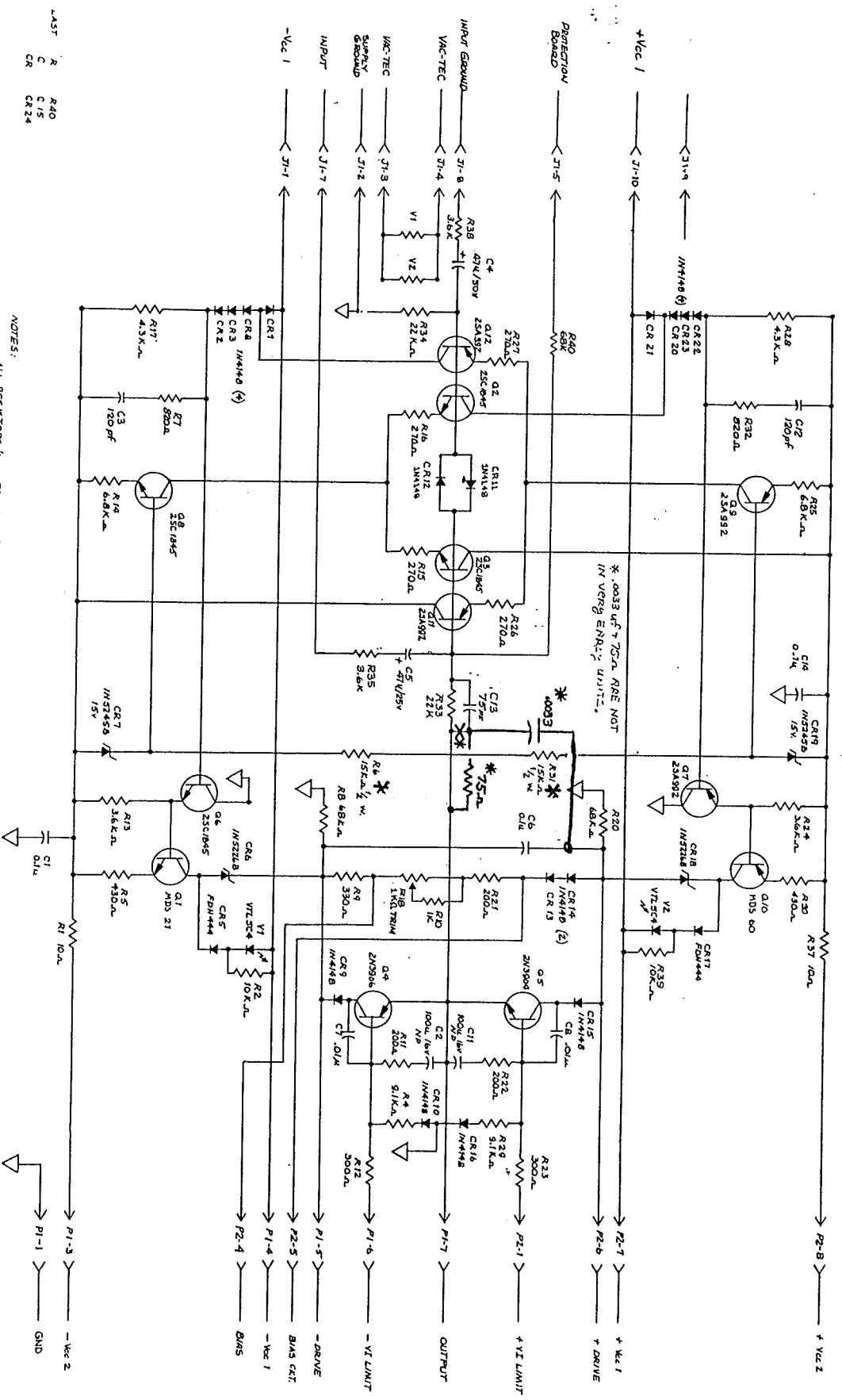
2

1



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REV	DATE	DESCRIPTION	BY
B	02-83	REVISION OF P1-1 TO P1-3	3-83
		PERM PART # 0-003	IL



NOTES:  
ALL RESISTORS  $\frac{1}{2}$  W. 5% UNLESS NOTED  
ALL CAPACITORS IN FARADS

REV. \* 20K WOVN 2400

BIAMP SYSTEMS, INC.		SCHEMATIC ASSEMBLY	
DATE	REV	BY	CHK
02-83	B	3-83	IL
PART #		REV	
0-003		1	
DESCRIPTION		SCHEMATIC ASSEMBLY	
REV		REV	
1		1	
DATE		DATE	
02-83		02-83	
BY		BY	
3-83		3-83	
CHK		CHK	
IL		IL	

A B C D E F G H

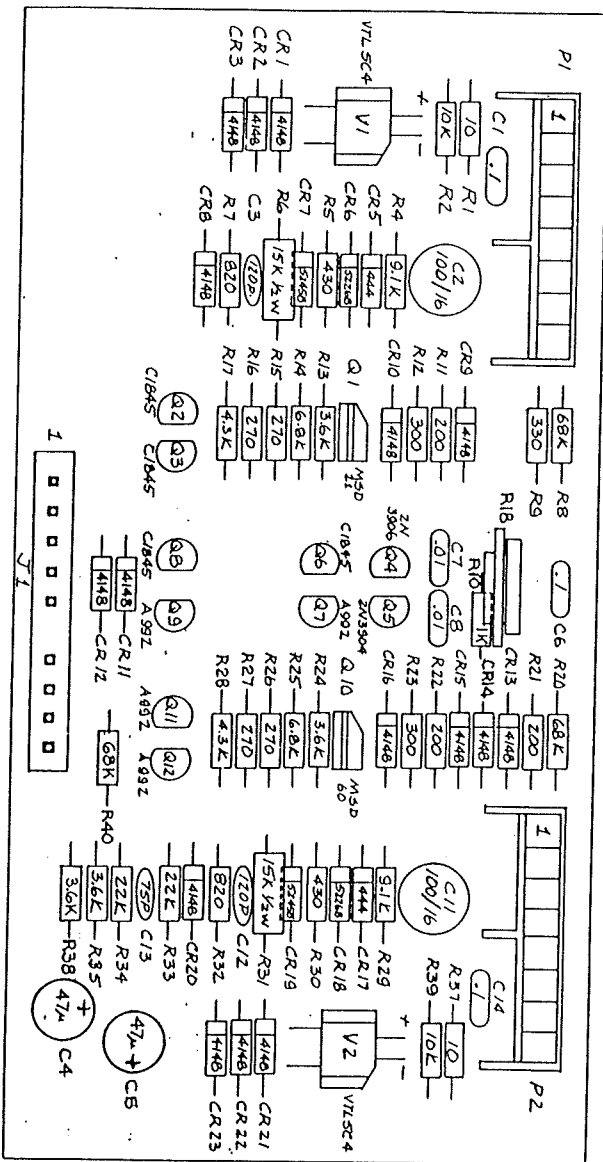
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P1 PLUG ASSIGNMENTS

1. GND
2. NC
3. VCC 2
4. VCC 1
5. DRIVE
6. VI LIMIT
7. OUTPUT
8. NC

P2 PLUG ASSIGNMENTS

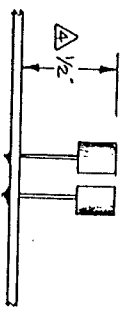
1. +VI LIMIT
2. NC
3. NC
4. BIAS
5. BIAS CRT
6. + DRIVE
7. + VCC 1
8. + VCC 2



J1 PIN ASSIGNMENTS

1. -VCC 1
2. SUPPLY GND
3. VAC. TEC.
4. VAC. TEC.
5. PROTECTION BOARD
6. VOID
7. INPUT
8. INPUT GROUND
9. NOT CONNECTED
10. + VCC 1

TRANSISTOR MTS DETAIL



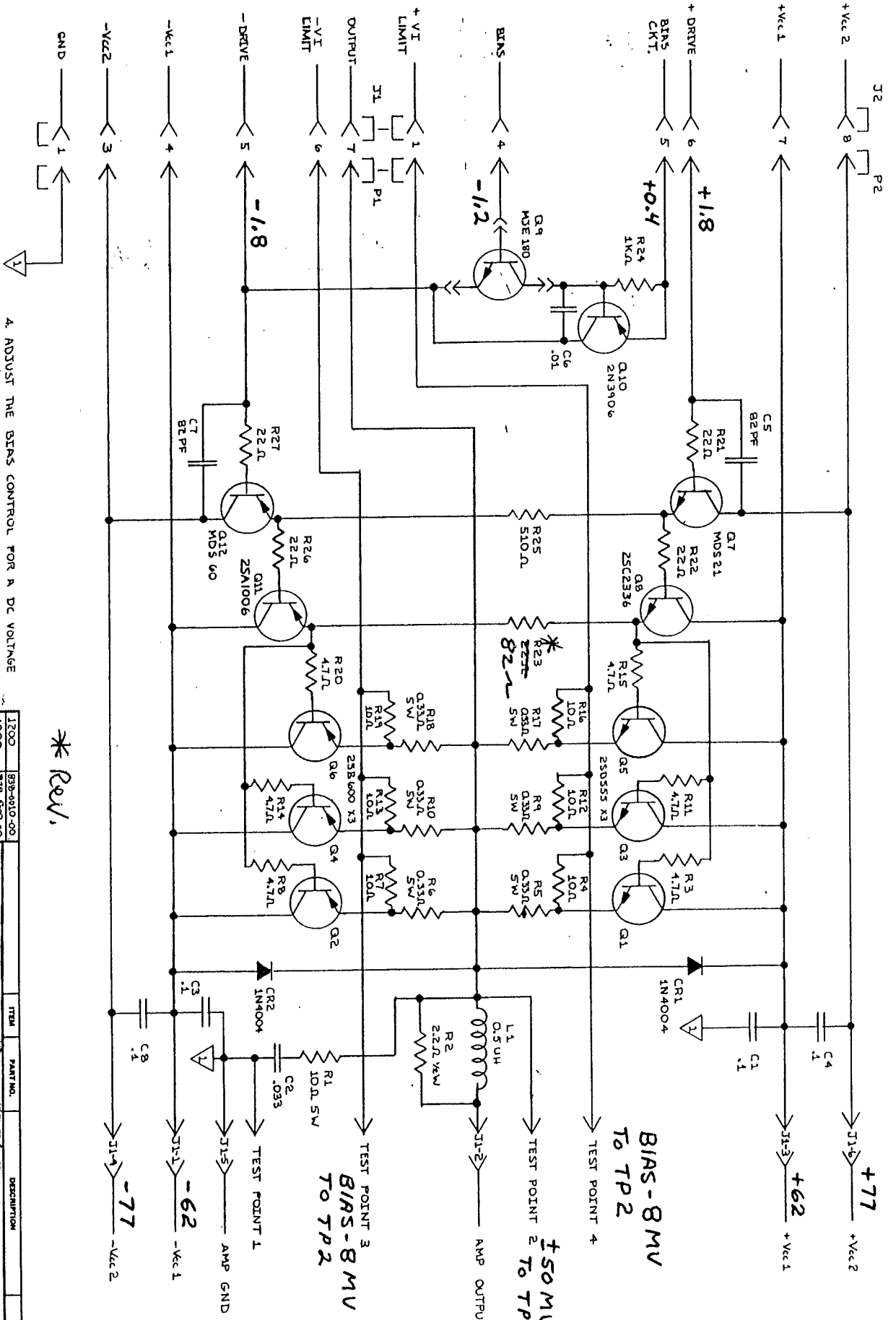
NOTES:

1. ALL RESISTORS 1/4 W 5% UNLESS NOTED
2. ALL CAPACITORS 1/4 W 4 FD UNLESS NOTED
3. ALL COMPONENTS TO BE FULLY SEATED DOWN ON CIRCUIT BOARD EXCEPT AS NOTED
4. MOUNT Q1-Q2 AND Q1-Q2 50 THAT WEIGHT FROM TOP OF CASE TO BOARD IS 1/2 INCH

MODEL	NEXT FORM	ITEM	PART NO.	DESCRIPTION	SIZE	QTY.
				BIAMP SYSTEMS INC.		
				COMPONENT ASSEMBLY		
				DRIVER PCB		
				1200-2400 AMPPLIER		
				FORM NO. 838-0005-00		
				SCALE 2X		
				DO NOT SCALE DRAWING		
				SHEET / OF 2		

REV.	ED.	CHANGE	DATE	BY
5	03E-83	CHANGE SI PIN ASSIGNS	3-83	JTD
		CHANGE P1 PIN ASSIGNS		

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4. ADJUST THE BIAS CONTROL FOR A DC VOLTAGE MEASUREMENT OF 10MV BETWEEN TEST POINTS 2 AND 4 AS WELL AS 2 AND 3
3. MAXIMUM DC VOLTAGE MEASURED BETWEEN TEST POINTS 1 AND 2 IS 50 MV
2. ALL RESISTORS 1/4W 5% UNLESS NOTED.
1. ALL CAPACITORS IN  $\mu$ F FD UNLESS NOTED.

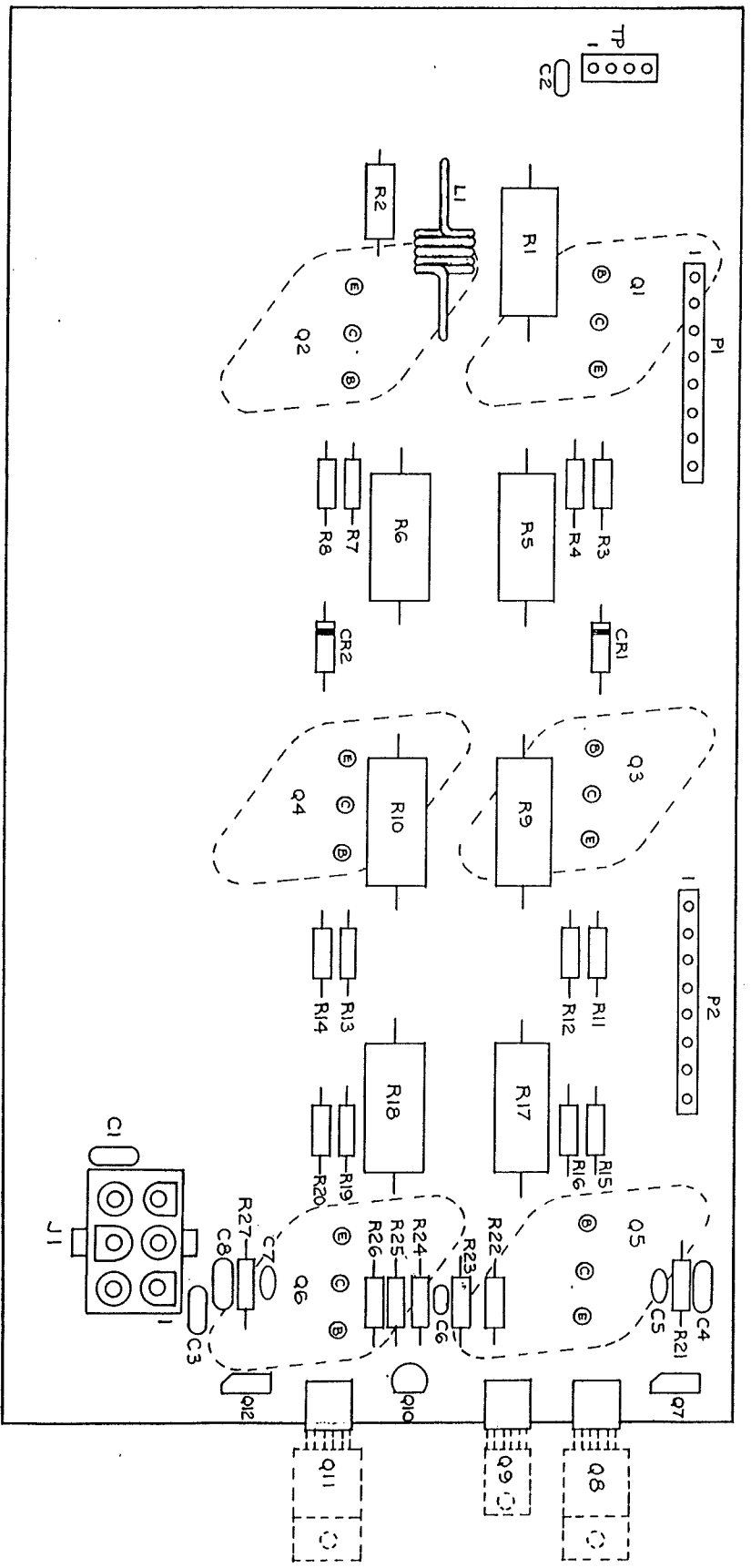
NOTES:

1200	838-0010-00	ITEM	DESCRIPTION	SIZE	QTY.
1300	139-550-00	ITEM	DESCRIPTION	SIZE	QTY.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:					
FRACTIONS: DECIMALS: ANGLES: FLATTEN:					
MATERIAL:					
FINISH:					
BREAK SHARP EDGES 90°					
CHAMFER OR RADIUS .015 MAX.					
MODEL	NEXT DWG.	VER.	NO.	DATE	BY
APPROVED	DESIGN	SIZE	SCALE	DO NOT SCALE DRAWING	SHEET 3 OF 3
SCHEMATIC ASSEMBLY 1200 OUTPUT STAGE 1200 AMPLIFIER					
838-0009-00 838-0010-00					

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- P1 PIN ASSIGNMENTS**
1. GROUND
  2. NC
  3. -Vcc 2
  4. -Vcc 1
  5. -DRIVE
  6. -VI LIMIT
  7. OUTPUT
  8. NC

- P2 PIN ASSIGNMENT**
1. + VI LIMIT
  2. NC
  3. NC
  4. BIAS
  5. BIAS CRKT
  6. + DRIVE
  7. + Vcc 1
  8. + Vcc 2



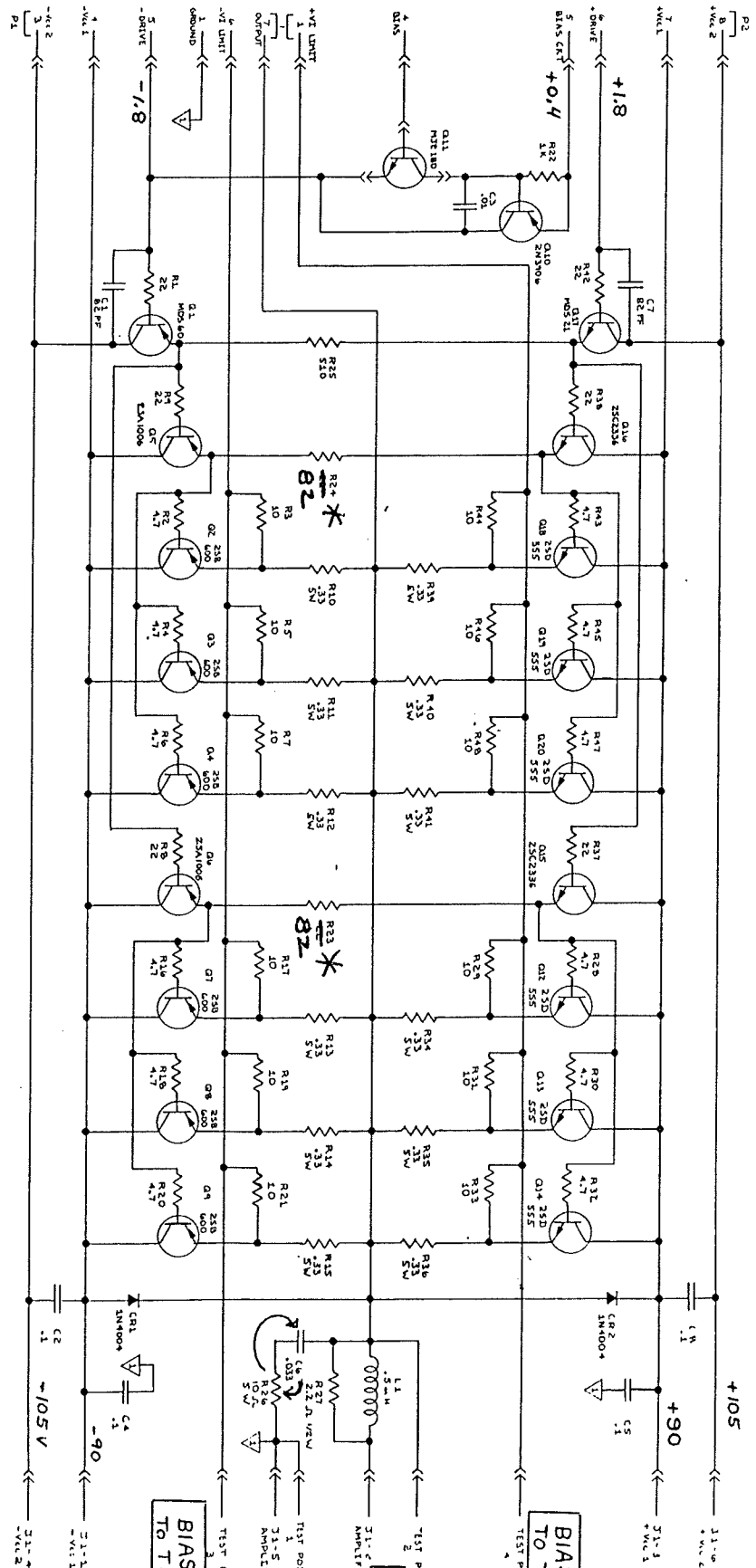
**TEST POINT PIN ASSIGNMENTS**

TP1. AMP GROUND  
 TP2. AMP OUTPUT  
 TP3. -BIAS  
 TP4. +BIAS

- J1 PIN ASSIGNMENTS**
1. -Vcc 1
  2. AMP OUTPUT
  3. +Vcc 1
  4. -Vcc 2
  5. AMP GROUND
  6. +Vcc 2

ITEM	PART NO.	DESCRIPTION	SIZE	QTY.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS FRACTIONS ANGLES MATERIALS	1-5 5	1-8 3		
FINISH	APPROVED	DESIGN		
MODEL	NEXT DWG.	YES	NO	
APPLICATION	CHANGES OR REVISED PARTS MAX.			
BIAMP SYSTEMS INC.		COMPONENT ASSEMBLY		
		1200 OUTPUT STAGE, CHANNEL B		
		1200 AMPLIFIER		
		DWG. NO. 838-0010-00		
		SCALE 2 X	DO NOT SCALE DRAWING	SHEET 2 OF 3

THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE BY THE NATIONAL ARCHIVES. IT IS RELEASED UNDER EXECUTIVE ORDER 11652, APRIL 27, 1972.



- NOTES:
1. ALL RESISTORS ARE 1/4 WATT UNLESS OTHERWISE NOTED.
  2. ALL CAPACITORS ARE 50VDC UNLESS OTHERWISE NOTED.

\* Rev.

A B C D E F G H

REV.	DATE	DESCRIPTION	BY	CHKD.
1	11/23	INITIAL DESIGN	...	...
2	11/23	...	...	...
3	11/23	...	...	...
4	11/23	...	...	...
5	11/23	...	...	...
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7	11/23	...	...	...
8	11/23	...	...	...
9	11/23	...	...	...
10	11/23	...	...	...

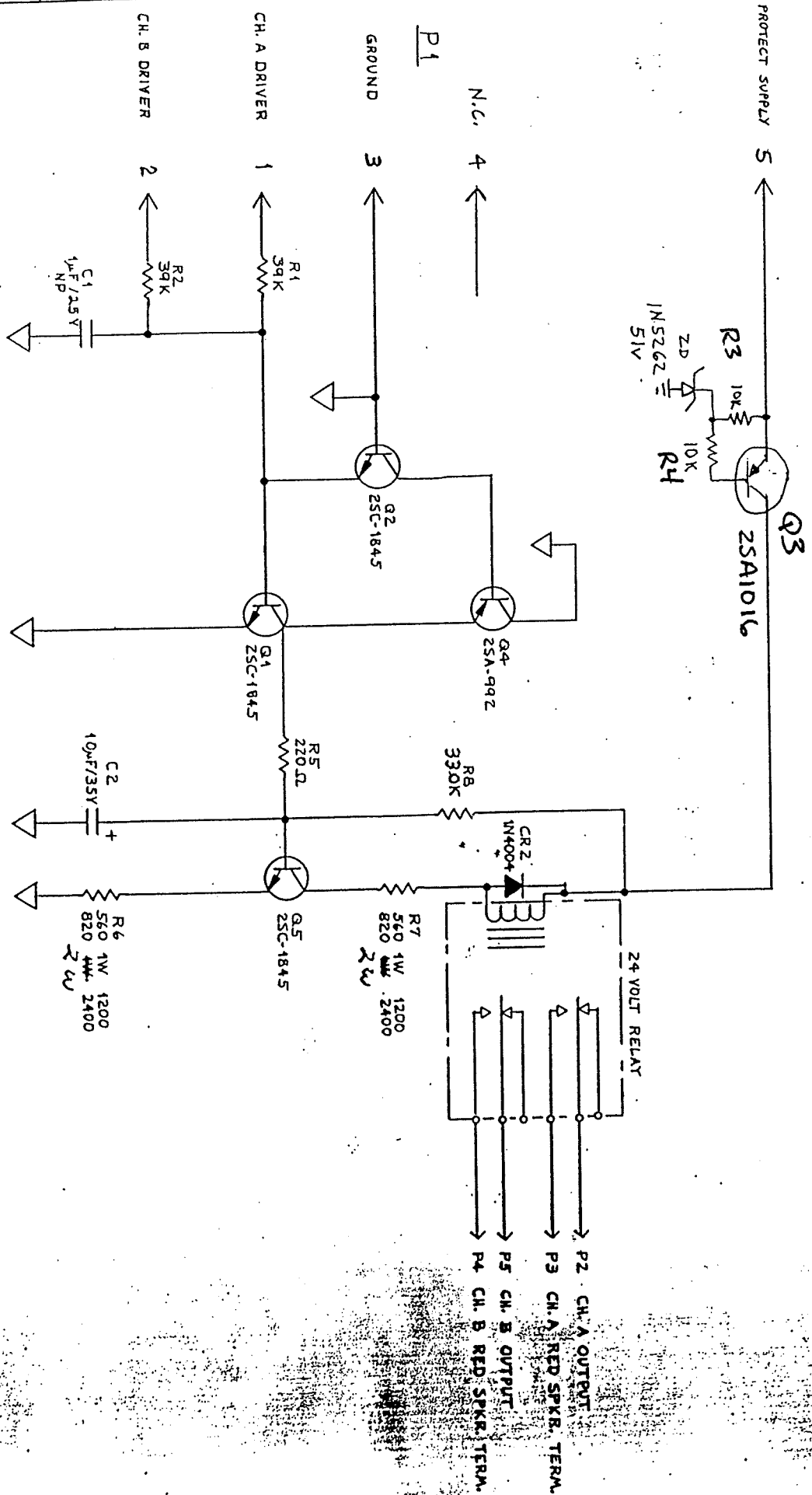
BIAMP SYSTEMS INC  
 4500 BARKER BLVD  
 FORT WORTH, TEXAS 76104





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A B C D



REV.	DATE	DESCRIPTION	BY	CHKD.
6	02/83	REMOVE CIRCUITRY, ADD R9	ZGB	JTD
5	01/83	REVISE CIRCUITRY	ZGB	SR

1220	938-0000-02	1220	938-0000-02
Z400	938-0000-02	1220	938-0000-02
MAKE USE OF THE PRICE SPECIFICATION DISCOUNTS MADE IN QUANTITIES OF 100 OR MORE. MATERIALS PLANTING AVAILABLE FOR THE YEAR 8 2 2			
<b>BIAMP SYSTEMS INC.</b> SCHEMATIC ASSEMBLY PROTECTION R.C.B.		<i>Early</i>	

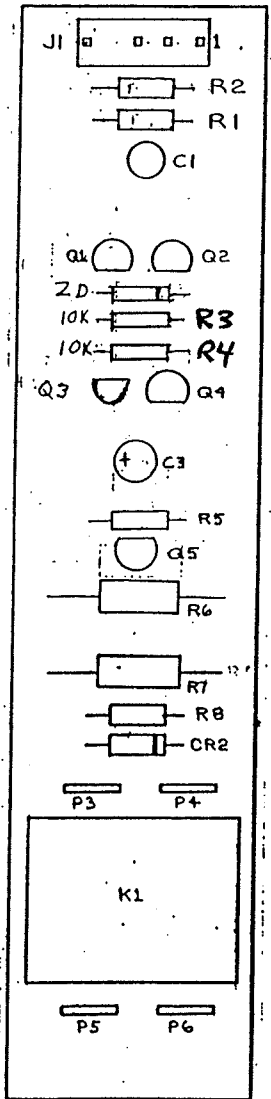
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A

B

C

D



- PLUG ASSIGNMENTS**
- P3 SPEAKER "A" TERMINALS
  - P4 AMPLIFIER "X" OUTPUT
  - P5 SPEAKER "B" TERMINALS
  - P6 AMPLIFIER "B" OUTPUT
- DI PLUG ASSIGNMENTS**
- 1 CH. A DRIVER
  - 2 CH. B DRIVER
  - 3 DC. PWR SUPPLY GND
  - 4 NC.
  - 5. PROTECT SUPPLY

1100	933-0000-00	ITEM	PART NO.	DESCRIPTION	QTY.
2400	933-0000-00	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:			
		FRACTIONS	DECIMALS	MATERIAL	
		1/16"	0.0625"	ALUMINUM	
		1/32"	0.03125"	ALUMINUM	
		1/64"	0.015625"	ALUMINUM	
		1/8"	0.125"	ALUMINUM	
		3/16"	0.1875"	ALUMINUM	
		1/4"	0.25"	ALUMINUM	
		5/16"	0.3125"	ALUMINUM	
		3/8"	0.375"	ALUMINUM	
		7/16"	0.4375"	ALUMINUM	
		1/2"	0.5"	ALUMINUM	
		5/8"	0.625"	ALUMINUM	
		3/4"	0.75"	ALUMINUM	
		7/8"	0.875"	ALUMINUM	
		1"	1.0"	ALUMINUM	
		1 1/8"	1.125"	ALUMINUM	
		1 1/4"	1.25"	ALUMINUM	
		1 3/8"	1.375"	ALUMINUM	
		1 1/2"	1.5"	ALUMINUM	
		1 5/8"	1.625"	ALUMINUM	
		1 3/4"	1.75"	ALUMINUM	
		1 7/8"	1.875"	ALUMINUM	
		2"	2.0"	ALUMINUM	
		2 1/8"	2.125"	ALUMINUM	
		2 1/4"	2.25"	ALUMINUM	
		2 3/8"	2.375"	ALUMINUM	
		2 1/2"	2.5"	ALUMINUM	
		2 5/8"	2.625"	ALUMINUM	
		2 3/4"	2.75"	ALUMINUM	
		2 7/8"	2.875"	ALUMINUM	
		3"	3.0"	ALUMINUM	
		3 1/8"	3.125"	ALUMINUM	
		3 1/4"	3.25"	ALUMINUM	
		3 3/8"	3.375"	ALUMINUM	
		3 1/2"	3.5"	ALUMINUM	
		3 5/8"	3.625"	ALUMINUM	
		3 3/4"	3.75"	ALUMINUM	
		3 7/8"	3.875"	ALUMINUM	
		4"	4.0"	ALUMINUM	
		4 1/8"	4.125"	ALUMINUM	
		4 1/4"	4.25"	ALUMINUM	
		4 3/8"	4.375"	ALUMINUM	
		4 1/2"	4.5"	ALUMINUM	
		4 5/8"	4.625"	ALUMINUM	
		4 3/4"	4.75"	ALUMINUM	
		4 7/8"	4.875"	ALUMINUM	
		5"	5.0"	ALUMINUM	

REV.	DATE	DESCRIPTION	BY
B	02-83	REVISED DRAWING	J.D.
C	07-83	REVERSE OF AMB C3	S.R.
D	07-83	REMOVE Q1, R4, R9, CR1	J.D./S.R.

**BIAMP SYSTEMS, INC.**

COMPONENT ASSEMBLY  
PROTECTION PCB  
1800-2400 AMPLIFIERS



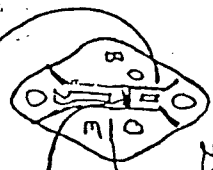




258600

2400 Modified Version  
of 2600 Board

250555



REMOVE XSTR SOCKETS  
ON DRIVERS  
-SEE BELOW-



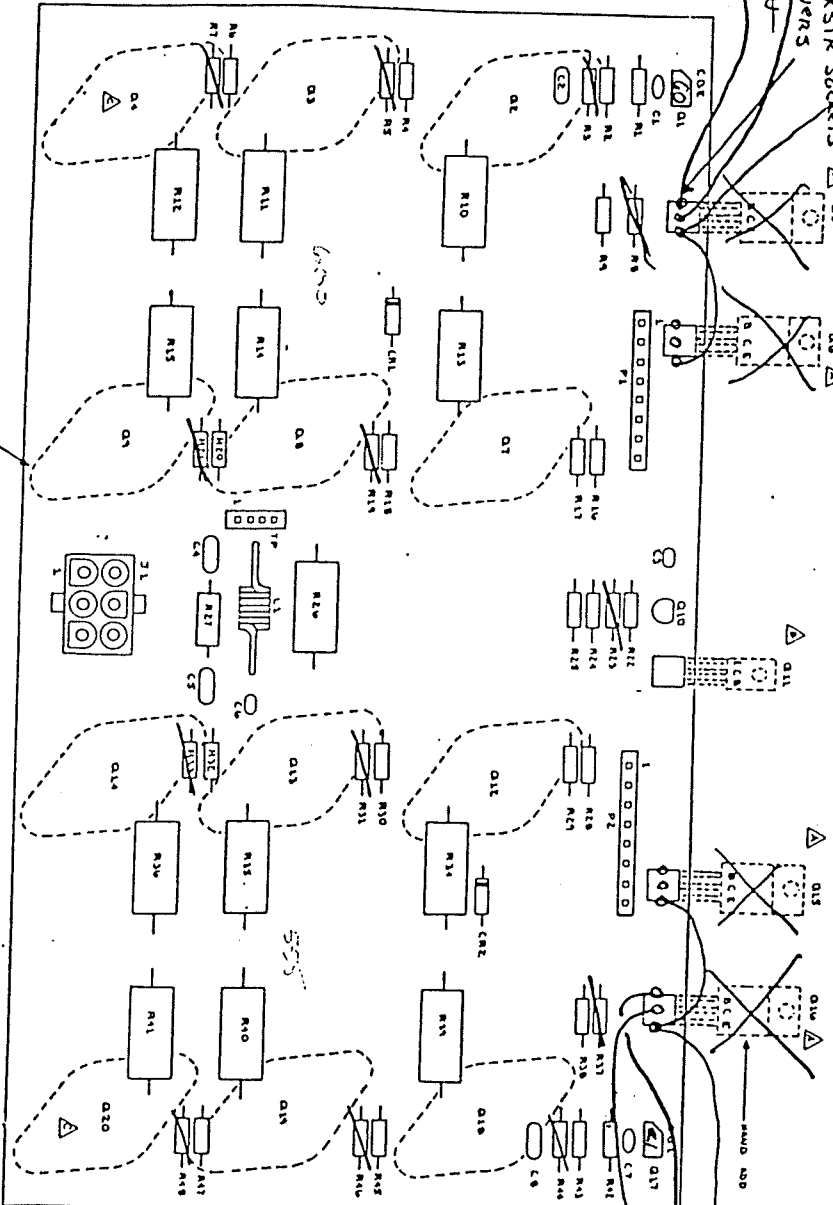
REMOVE XSTR SOCKETS  
ON DRIVERS  
-SEE BELOW-

- P1 PIN ASSIGNMENTS:
- 1 - W/C
  - 2 - W/C
  - 3 - W/C
  - 4 - W/C
  - 5 - W/C
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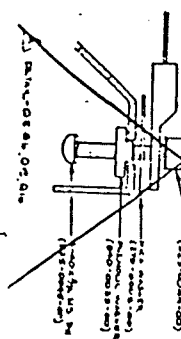
- P2 PIN ASSIGNMENTS:
- 1 - W/C
  - 2 - W/C
  - 3 - W/C
  - 4 - W/C
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  - 7 - W/C
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- P3 PIN ASSIGNMENTS:
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  - 100 - W/C

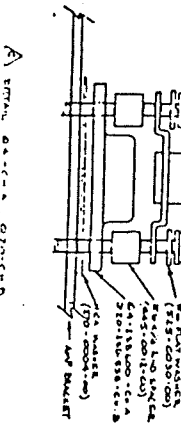
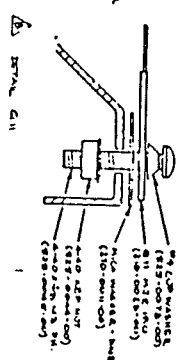
- TEST POINT TP PIN ASSIGNMENTS:
- 1 - W/C
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  - 99 - W/C
  - 100 - W/C



~~REMOVE SOCKET FROM PCB.  
PRE-BEND XSTR LEADS TO FIT.  
DO NOT LEAVE ANY LEAD STRESS  
AFTER MOUNTING.~~



REMOVE SOCKET TO BOTTOM OF PCB

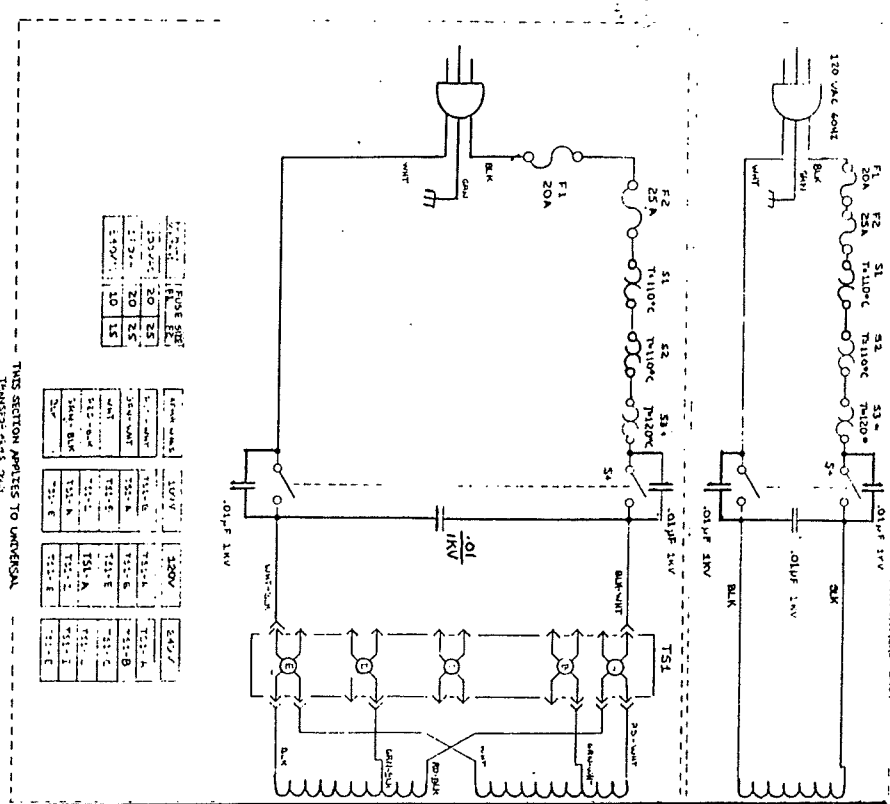


ITEM NO.	DESCRIPTION	QTY	UNIT	REVISION
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
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8	...	...	...	...
9	...	...	...	...
10	...	...	...	...

SIAMP SYSTEMS, INC.  
13000 W. 10TH AVE.  
DENVER, CO 80231

THIS SECTION APPLIES TO DOMESTIC TRANSFORMERS ONLY

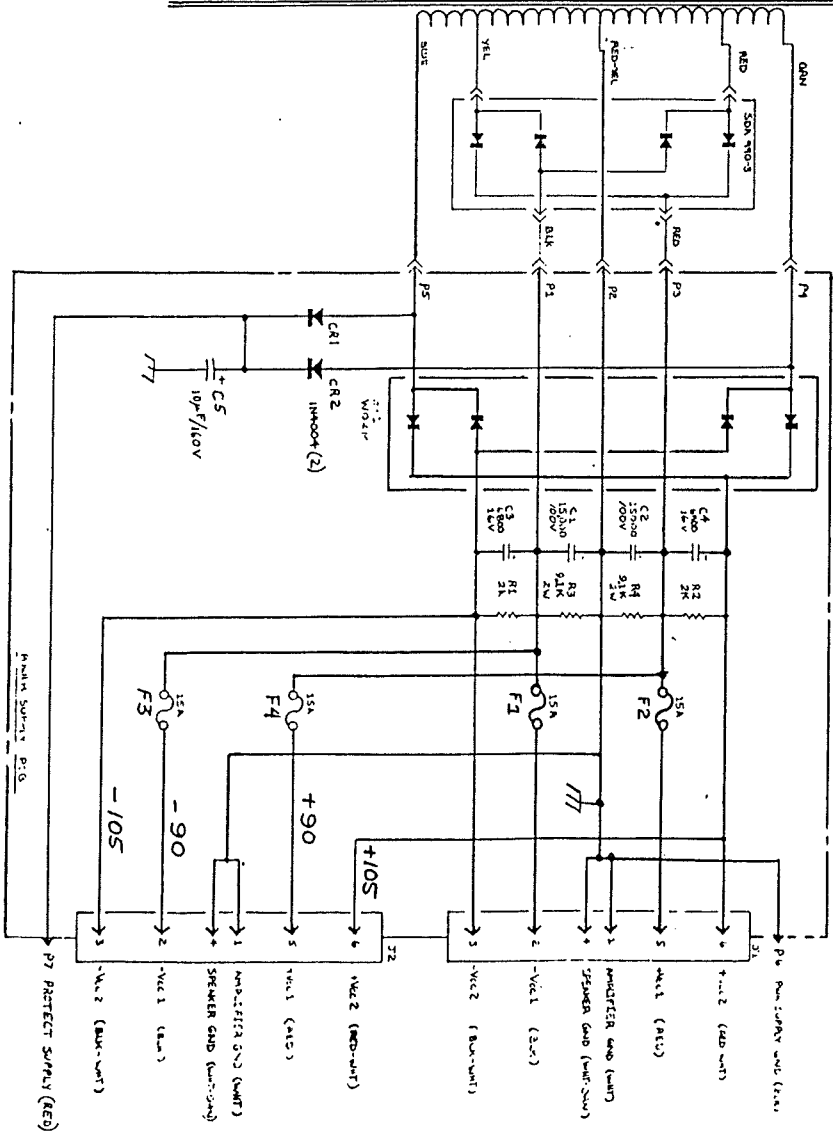
THIS SECTION APPLIES TO UNIVERSAL TRANSFORMERS ONLY



Ratio	Primary	Secondary
20:1	200V	100V
25:1	250V	100V
10:1	100V	250V
15:1	150V	250V

Ratio	Primary	Secondary
20:1	200V	100V
25:1	250V	100V
10:1	100V	250V
15:1	150V	250V

THIS SECTION APPLIES TO UNIVERSAL TRANSFORMERS ONLY



Ratio	Primary	Secondary
20:1	200V	100V
25:1	250V	100V
10:1	100V	250V
15:1	150V	250V

1. THERMAL SWITCH S3 & COATED INSIDE FOR TRANSDUCER

2. THERMAL SWITCH S3 & COATED INSIDE FOR TRANSDUCER

Part No.	Description	Quantity
1	RESISTOR 10K	1
2	RESISTOR 10K	1
3	RESISTOR 10K	1
4	RESISTOR 10K	1
5	RESISTOR 10K	1
6	RESISTOR 10K	1
7	RESISTOR 10K	1
8	RESISTOR 10K	1
9	RESISTOR 10K	1
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97	RESISTOR 10K	1
98	RESISTOR 10K	1
99	RESISTOR 10K	1
100	RESISTOR 10K	1

BIAMP SYSTEMS INC.

2000 ANDLER STREET  
MILWAUKEE, WI 53212

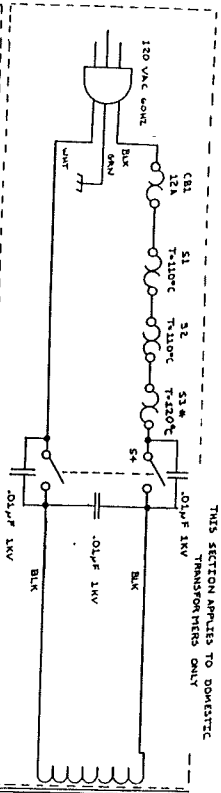
TEL: 414-761-1111  
FAX: 414-761-1112

WWW.BIAMP.COM

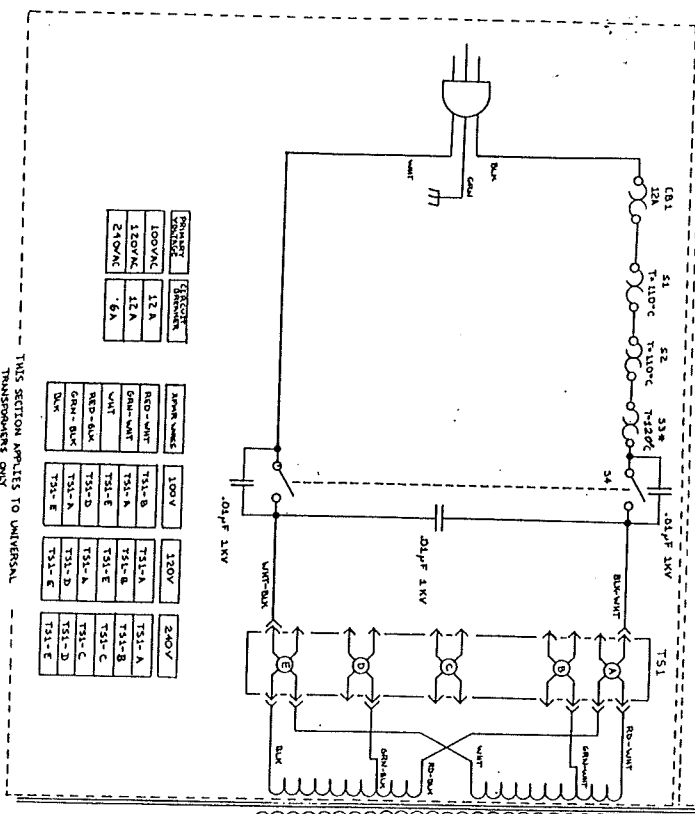




THIS SECTION APPLIES TO DOMESTIC TRANSFORMERS ONLY



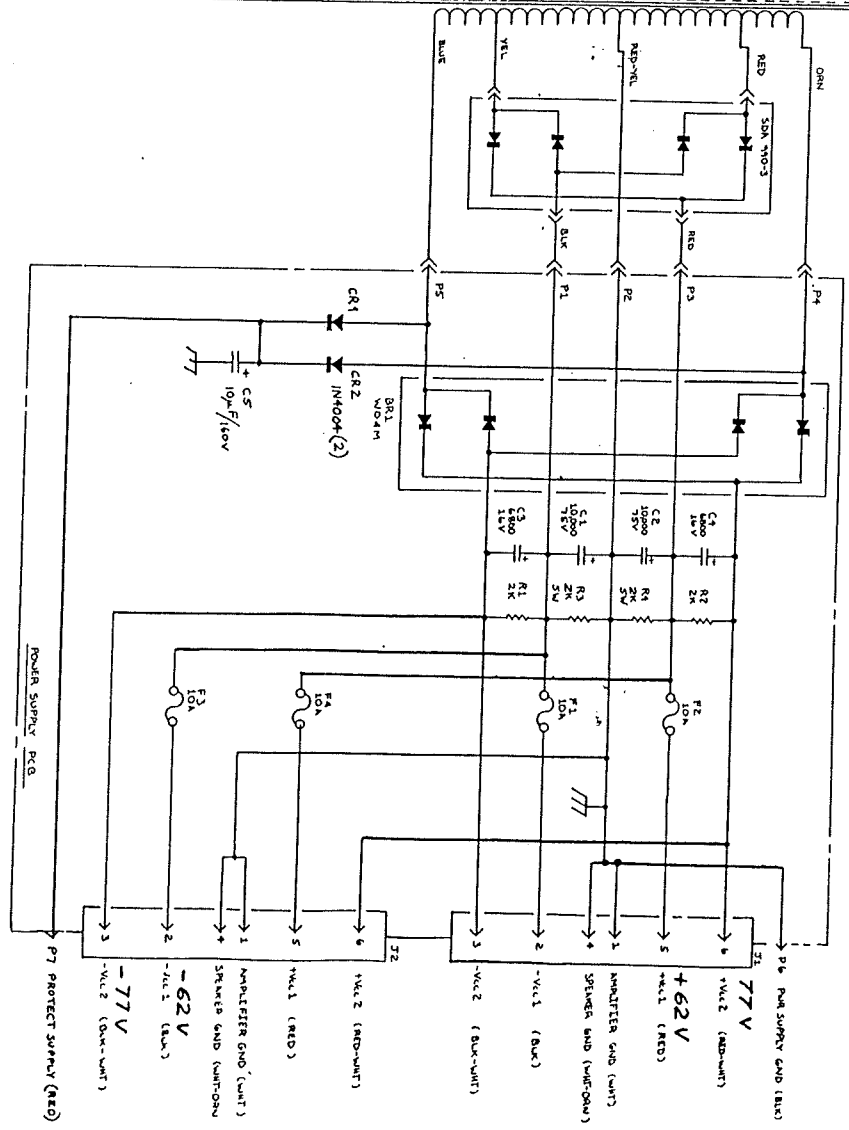
THIS SECTION APPLIES TO DOMESTIC TRANSFORMERS ONLY



THIS SECTION APPLIES TO UNIVERSAL TRANSFORMERS ONLY

PRIMARY WINDING	SECONDARY WINDING
100VAC	12A
120VAC	12A
240VAC	6A

INPUT WINDING	100V	120V	240V
RED-WHT	T31-A	T31-A	T31-A
GRN-WHT	T31-B	T31-B	T31-B
WHT	T31-C	T31-C	T31-C
RED-BLK	T31-D	T31-D	T31-D
GRN-BLK	T31-E	T31-E	T31-E
DNK	T31-F	T31-F	T31-F



1. THERMAL SWITCH S3 LOCATED INSIDE PWA TRANSFORMER.

REV	DATE	DESCRIPTION
1	11/11/78	INITIAL RELEASE
2	11/11/78	REVISION
3	11/11/78	REVISION
4	11/11/78	REVISION
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6	11/11/78	REVISION
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REV	DATE	DESCRIPTION
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BIAMP SYSTEMS II  
SCHEMATIC ASSEMBLY  
POWER SUPPLY