

Advantage EQ 152 & 301

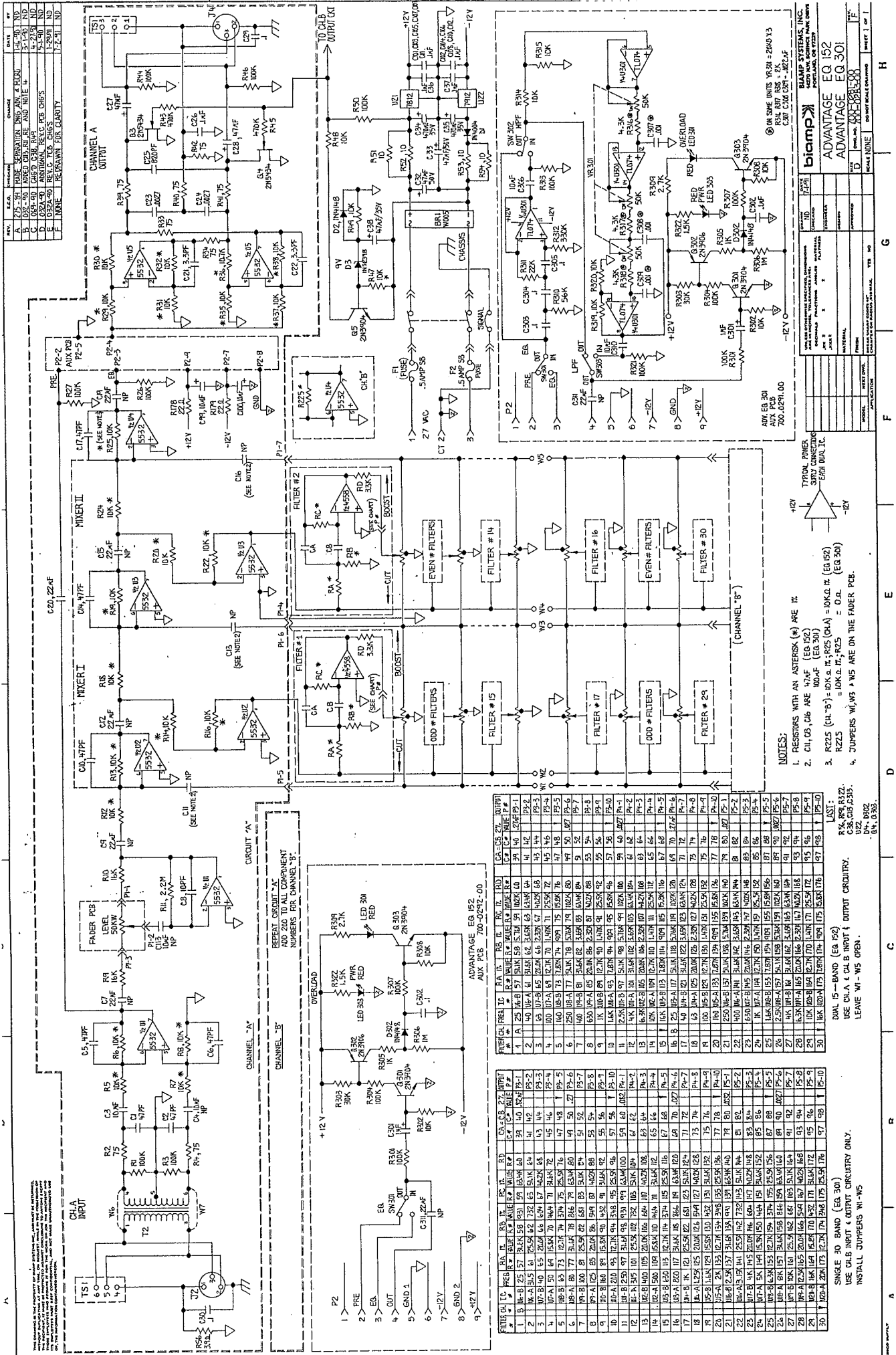
# Schematic Manual

**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



REV.	DESCRIPTION	DATE	BY
A	DESIGN	11-20-73	ND
B	REVISED	11-20-73	ND
C	REVISED	11-20-73	ND
D	REVISED	11-20-73	ND
E	REVISED	11-20-73	ND
F	REVISED	11-20-73	ND

CHANNEL A  
OUTPUT

MIXER I

MIXER II

CIRCUIT "A"

CHANNEL "B"

OVERLOAD

CHANNEL "A"

REPEAT CIRCUIT "A" ADD 200 TO ALL COMPONENT NUMBERS FOR CHANNEL "B".

FILTER #	RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
1	R1 10K	C1 100P	5532
2	R2 10K	C2 100P	5532
3	R3 10K	C3 100P	5532
4	R4 10K	C4 100P	5532
5	R5 10K	C5 100P	5532
6	R6 10K	C6 100P	5532
7	R7 10K	C7 100P	5532
8	R8 10K	C8 100P	5532
9	R9 10K	C9 100P	5532
10	R10 10K	C10 100P	5532
11	R11 10K	C11 100P	5532
12	R12 10K	C12 100P	5532
13	R13 10K	C13 100P	5532
14	R14 10K	C14 100P	5532
15	R15 10K	C15 100P	5532

NOTES:

- RESISTORS WITH AN ASTERISK (\*) ARE 1%.
- RESISTORS WITH AN ASTERISK (\*) ARE 1%.
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- RESISTORS WITH AN ASTERISK (\*) ARE 1%.

ADVANTAGE EQ 152  
PARTS LIST

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
R1 10K	C1 100P	5532
R2 10K	C2 100P	5532
R3 10K	C3 100P	5532
R4 10K	C4 100P	5532
R5 10K	C5 100P	5532
R6 10K	C6 100P	5532
R7 10K	C7 100P	5532
R8 10K	C8 100P	5532
R9 10K	C9 100P	5532
R10 10K	C10 100P	5532
R11 10K	C11 100P	5532
R12 10K	C12 100P	5532
R13 10K	C13 100P	5532
R14 10K	C14 100P	5532
R15 10K	C15 100P	5532

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
R1 10K	C1 100P	5532
R2 10K	C2 100P	5532
R3 10K	C3 100P	5532
R4 10K	C4 100P	5532
R5 10K	C5 100P	5532
R6 10K	C6 100P	5532
R7 10K	C7 100P	5532
R8 10K	C8 100P	5532
R9 10K	C9 100P	5532
R10 10K	C10 100P	5532
R11 10K	C11 100P	5532
R12 10K	C12 100P	5532
R13 10K	C13 100P	5532
R14 10K	C14 100P	5532
R15 10K	C15 100P	5532

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
R1 10K	C1 100P	5532
R2 10K	C2 100P	5532
R3 10K	C3 100P	5532
R4 10K	C4 100P	5532
R5 10K	C5 100P	5532
R6 10K	C6 100P	5532
R7 10K	C7 100P	5532
R8 10K	C8 100P	5532
R9 10K	C9 100P	5532
R10 10K	C10 100P	5532
R11 10K	C11 100P	5532
R12 10K	C12 100P	5532
R13 10K	C13 100P	5532
R14 10K	C14 100P	5532
R15 10K	C15 100P	5532

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
R1 10K	C1 100P	5532
R2 10K	C2 100P	5532
R3 10K	C3 100P	5532
R4 10K	C4 100P	5532
R5 10K	C5 100P	5532
R6 10K	C6 100P	5532
R7 10K	C7 100P	5532
R8 10K	C8 100P	5532
R9 10K	C9 100P	5532
R10 10K	C10 100P	5532
R11 10K	C11 100P	5532
R12 10K	C12 100P	5532
R13 10K	C13 100P	5532
R14 10K	C14 100P	5532
R15 10K	C15 100P	5532

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
R1 10K	C1 100P	5532
R2 10K	C2 100P	5532
R3 10K	C3 100P	5532
R4 10K	C4 100P	5532
R5 10K	C5 100P	5532
R6 10K	C6 100P	5532
R7 10K	C7 100P	5532
R8 10K	C8 100P	5532
R9 10K	C9 100P	5532
R10 10K	C10 100P	5532
R11 10K	C11 100P	5532
R12 10K	C12 100P	5532
R13 10K	C13 100P	5532
R14 10K	C14 100P	5532
R15 10K	C15 100P	5532

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE	CAPACITOR VALUE	IC VALUE
R1 10K	C1 100P	5532
R2 10K	C2 100P	5532
R3 10K	C3 100P	5532
R4 10K	C4 100P	5532
R5 10K	C5 100P	5532
R6 10K	C6 100P	5532
R7 10K	C7 100P	5532
R8 10K	C8 100P	5532
R9 10K	C9 100P	5532
R10 10K	C10 100P	5532
R11 10K	C11 100P	5532
R12 10K	C12 100P	5532
R13 10K	C13 100P	5532
R14 10K	C14 100P	5532
R15 10K	C15 100P	5532

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

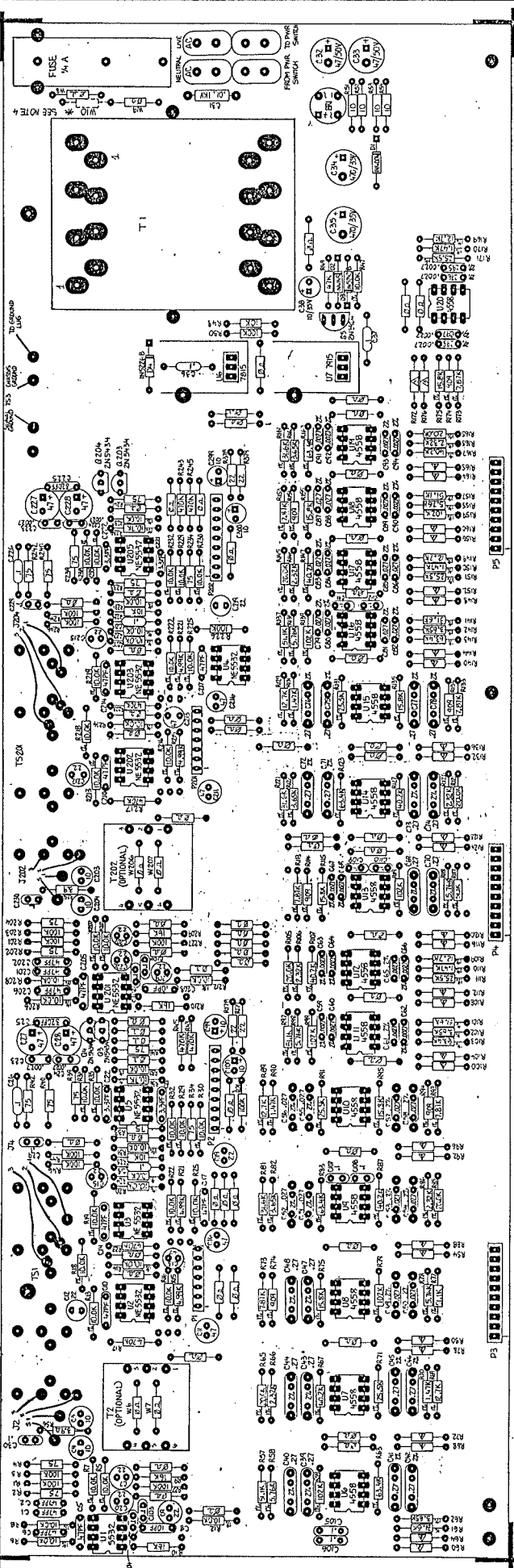
RESISTOR VALUE

CAPACITOR VALUE

IC VALUE

RESISTOR VALUE

RESISTOR VALUE



00-0820-098

NOTES: UNLESS OTHERWISE SPECIFIED.

- 3. ALL CAPACITORS IN MFD, ALL RESISTORS IN OHMS UNLESS NOTED.
- 4. FOR 120V OPERATION, USE W6 & W8 AND DMT W10.
- 5. FOR 240V OPERATION, USE W10 AND DMT W6 & W8.
- 6. RESISTORS MARKED "A" ARE 3-3K.

biamp		BIAMP SYSTEMS, INC. 1000 W. 10TH STREET, PORTLAND, OR 97205	
ADVANTAGE EQ 152		MAIN PCB ASSY	
D		701-0281-00	
REV. 2/88		SHEET 1 OF 1	

H

G

F

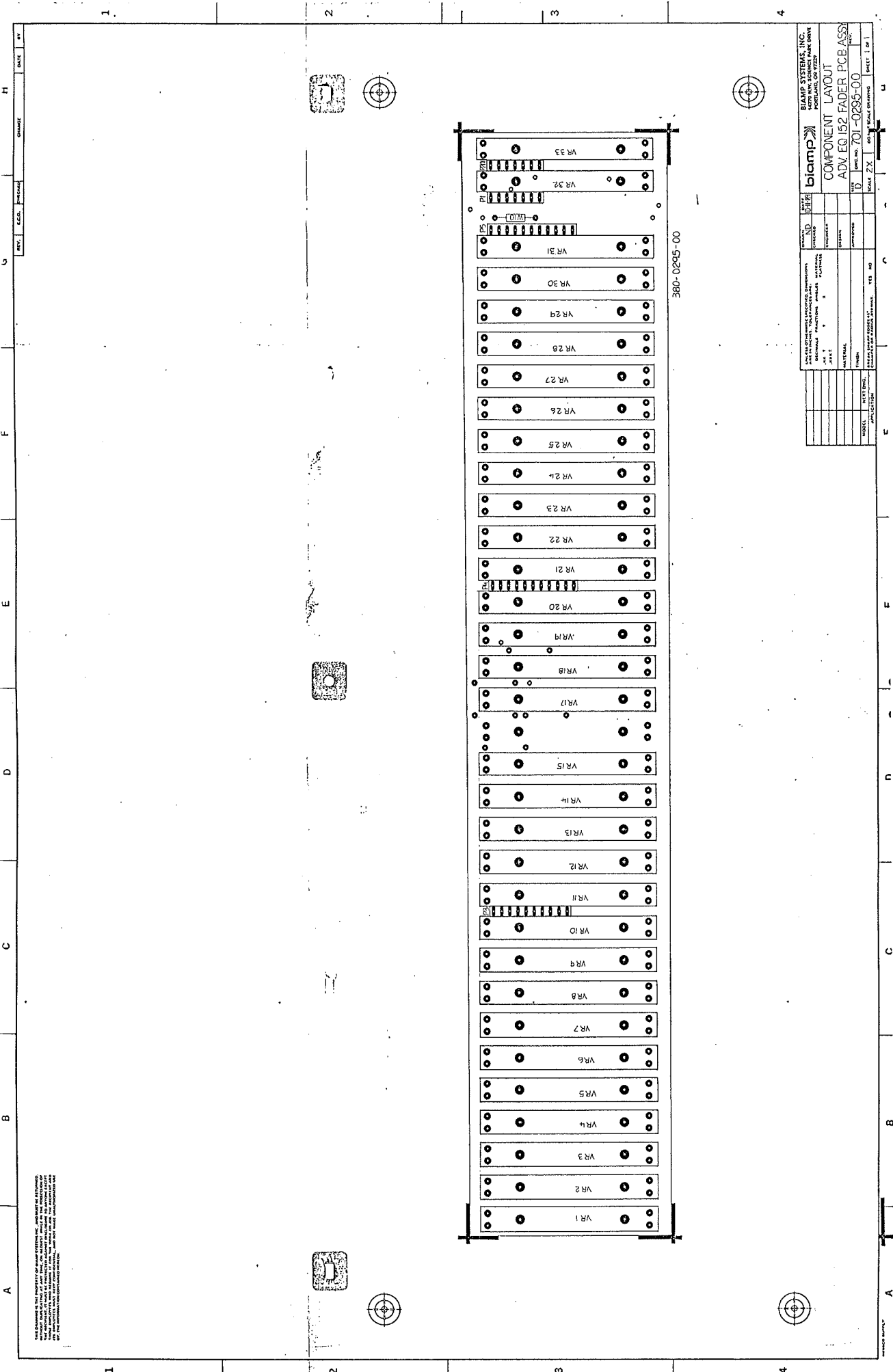
E

D

C

B

A

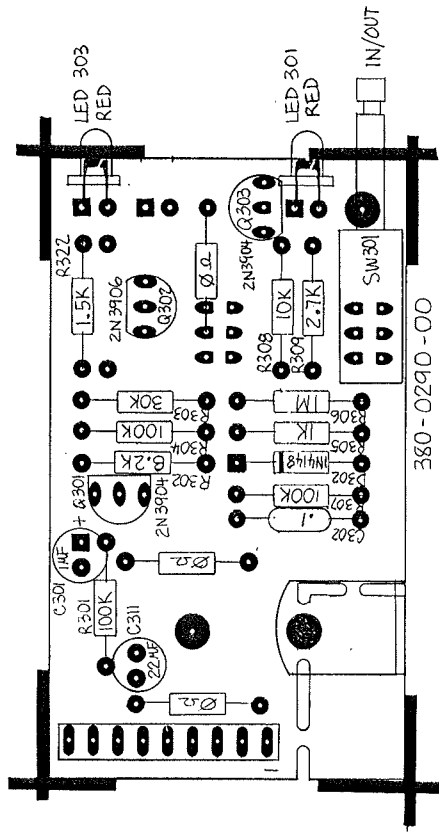
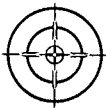


380-0295-00

BIAMP SYSTEMS, INC. 1000 SW 10TH AVENUE PORTLAND, OREGON 97204		DATE: 10/10/80		DRAWN: ZX	
PROJECT: ADV EQ 152 FADER PCB ASSY		REV: 10		SCALE: ZX	
MATERIAL: FR-4		SHEET: 1 OF 1		DATE: 10/10/80	
APPLICATOR: [blank]		CHECKED BY: [blank]		DESIGNED BY: [blank]	
APPROVED BY: [blank]		DATE: [blank]		SCALE: [blank]	

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380-0290-00  
REV. B

REV.	E.C.O.	CHANGE	DATE	BY
A	NONE	380-0290-00 REV. A FILM	12-15-88	ND
B	263-89	380-0290-00 REV. B FILM	12-19-88	ND

ITEM	PART NO	DESCRIPTION	SIZE	QTY
<b>biamp</b> BIAMP SYSTEMS COMPONENT LAYOUT ADVANTAGE EQ 152 AUX PCB ASSY				
DATE		9-28-89		
DESIGN	ND	CHECKED		
ENGINEER				
DESIGN				
APPROVED				
SCALE		ZX	DO NOT SCALE DRAWING	SHEET 1 OF 1
REV.		B	DWG NO	701-0292-00

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE AS SHOWN FRACTIONS ANGLES MATERIAL FINISH

D

C

B

A

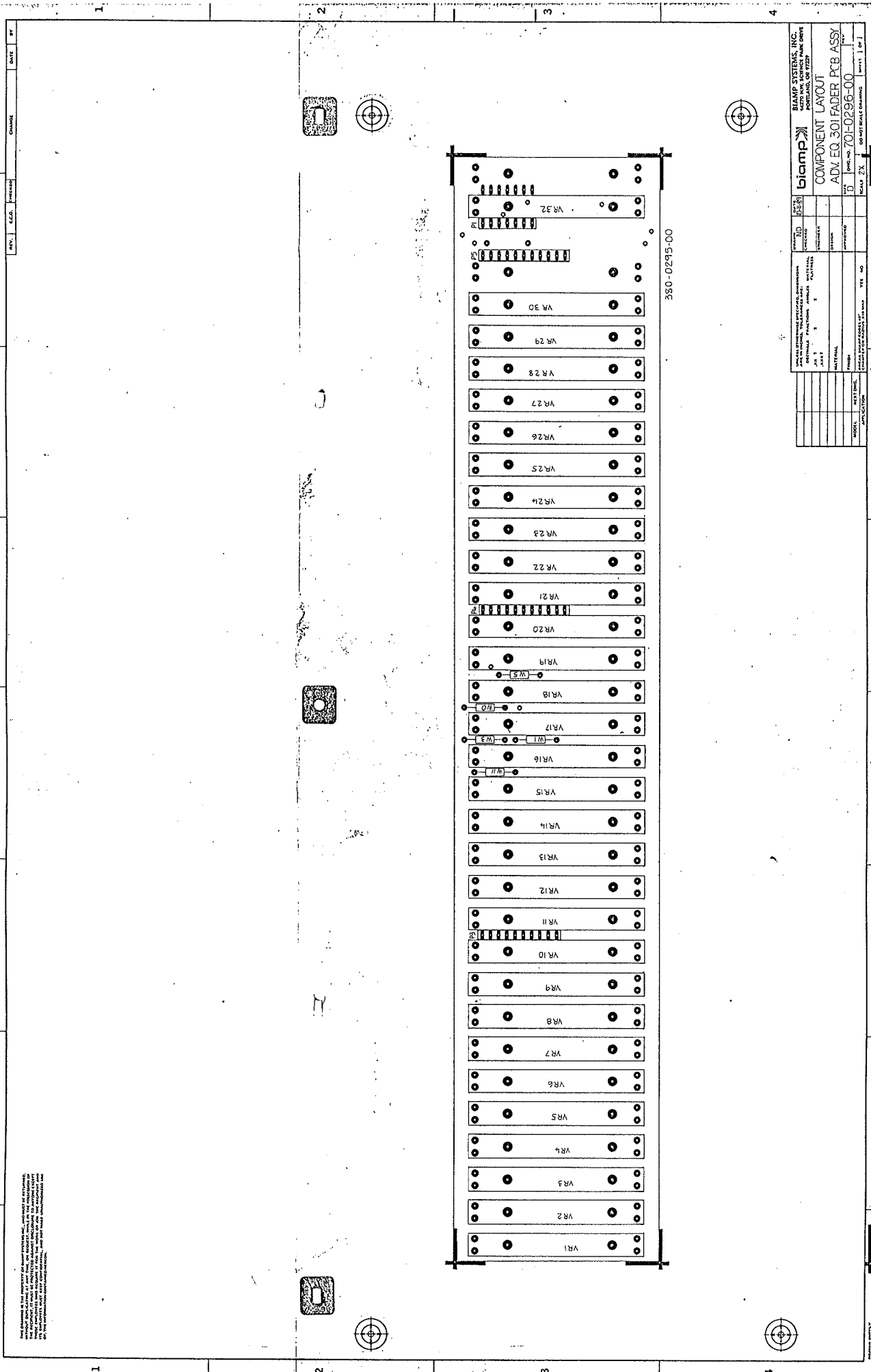
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C

B

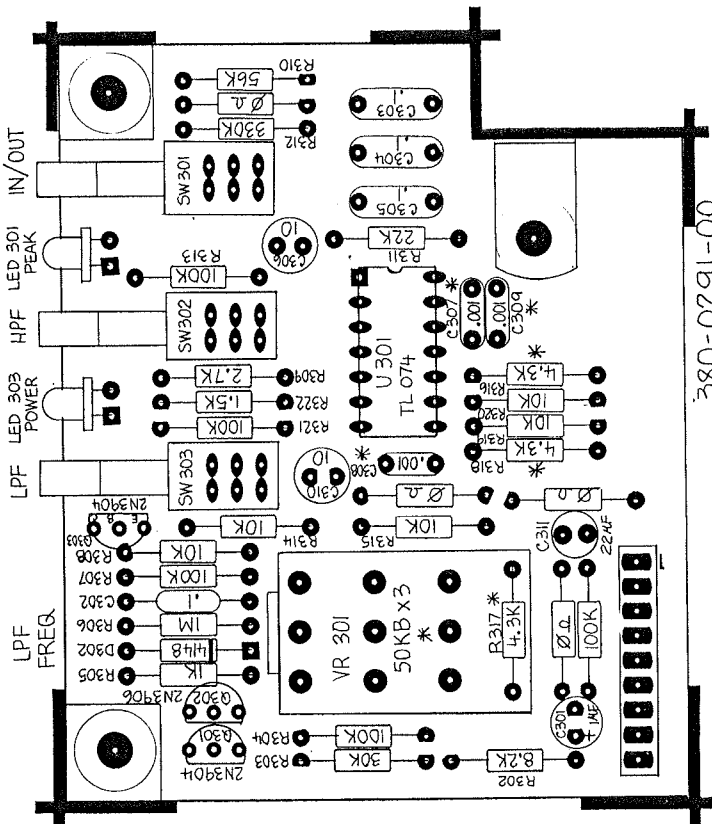
A

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<b>biamp</b>		BIAMP SYSTEMS, INC. 1000 SW 12TH AVE., SUITE 200 PORTLAND, OR 97209	
DATE: 03/15	REV: 03/15	DESIGNED BY: [ ]	DESIGNED BY: [ ]
APPROVED BY: [ ]	APPROVED BY: [ ]	DATE: [ ]	DATE: [ ]
ADV. EQ. 301 FADER PCB ASSY COMPONENT LAYOUT		PART NO. 701-0295-00 REV. B	
YES NO ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED	YES NO ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED	YES NO ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED	YES NO ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED DIMENSIONS ARE TO CENTER UNLESS NOTED
MODEL: [ ]	REV. [ ]	DATE: [ ]	DATE: [ ]
APPROVED BY: [ ]	APPROVED BY: [ ]	DATE: [ ]	DATE: [ ]

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380-0291-00  
REV.B

NOTES:

- ON SOME MODELS R316, R317, R318 : 2K
- C307, C308, C309 : .0022 MF
- VR 301 : 20KB X 3.

MODEL	NEXT DESG.
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. FRACTIONS ANGLES MUST BE PLAIN	YES	NO
FINISH		
MATERIAL		
DESIGN		
APPROVED		
DATE		

DESIGN	DATE
ND 91589	9/15/89
PART NO	
DESCRIPTION	

BIAMP SYSTEMS	QTY
COMPONENT LAYOUT	
ADVANTAGE EQ 301 AUX PCB ASSY	
DESG NO 701-0291-00	
SCALE 2X	SHEET 1 OF 1

REV	I.C.U.	CHARGE	DATE	BY
A	NONE	380-0291-00 REV.A FILM	12-18-88	ND
B	263-89	380-0291-00 REV.B FILM	12-19-89	ND

A

A

B

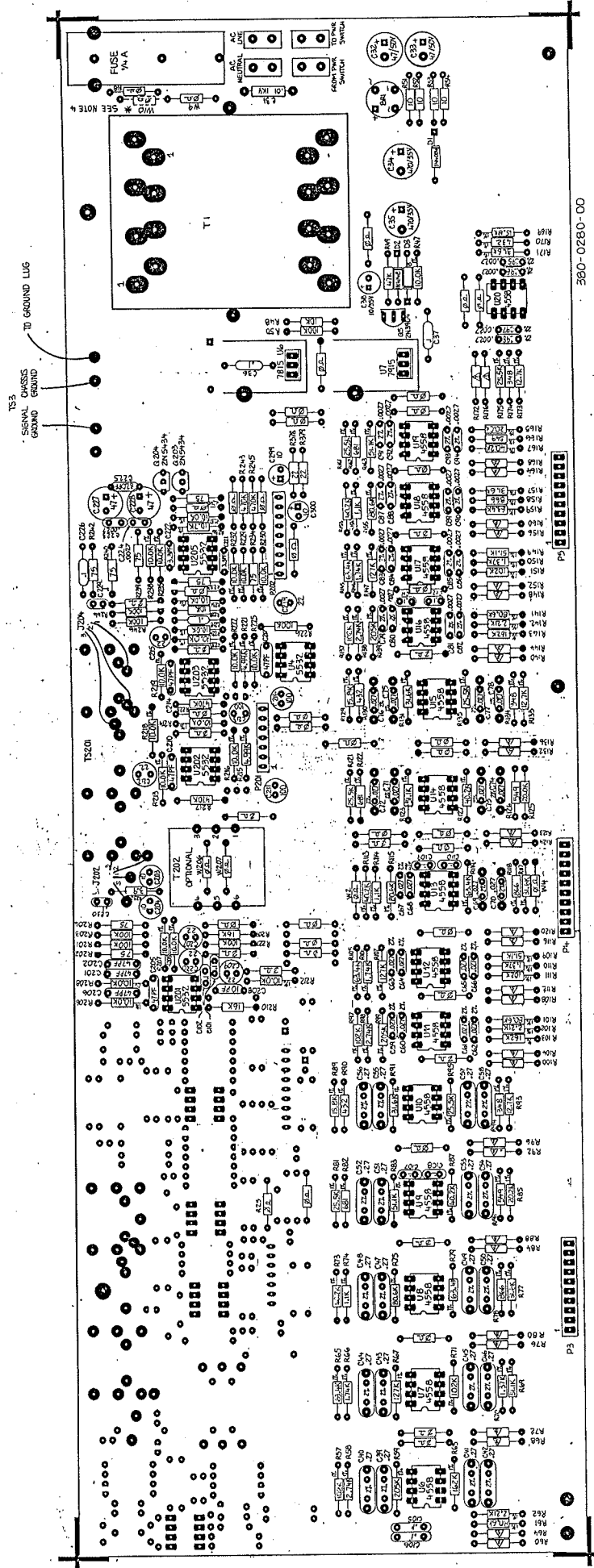
C

D

1

2

2



360-0280-00

NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL CAPACITORS IN  $\mu$ F. ALL RESISTORS IN OHMS UNLESS NOTED.
2. FOR 120 VAC OPERATION, USE W8 & W9 AND OMIT W10.
3. FOR 240 VAC OPERATION, USE W10 AND OMIT W8 & W9.
4. RESISTORS MARKED  $\Delta$  ARE 3.3K.

biamp		BIAMP SYSTEMS, INC. 1670 HAY DRIVE PORTLAND, OR 97201	
ADVANTAGE EQ 301 MAIN PCB ASSY		DATE	REV.
		7/01-0283-00	1
		FORM 2-X	QUANTITATIVE CHANGES
		SHEET 1 OF 1	

A B C D E F G H