



A Division of St. Louis Music, Inc.

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DECEMBER 1994

#### AMPEG UPDATE

MODELS AFFECTED: SVT-II/SVT-300, SVT-III, AP-3550.

##### SVT-II & SVT-300:

- 1) Remove and discard 4 screws that secure bottom rubber feet.
- 2) Install shorter 30-833-20 screw in place of above.
- 3) Install a jumper wire on Power Amp P/C assembly as follows:

- A) P/C assembly 07-419-01: (Early SVT-II)  
Install a jumper in place of resistor R53 (10 ohms)  
see enclosed pictorial Page 1 of 2.
- B) P/C assembly 07-419-02: (Later SVT-II & SVT-300)  
Same as above but resistor is designated as R23.  
See enclosed pictorial Page 2 of 2.

##### SVT-III & AP-3550:

- 1) Remove and discard 4 screws that secure bottom rubber feet.
- 2) Install shorter 30-833-20 screw in place of above.

**CRATE**

**ampeg**

**Audio Centron**

PAGE 2 OF 2

SVT-II UPDATE Nov. '94

SVT-300 UPDATE

07-419-02

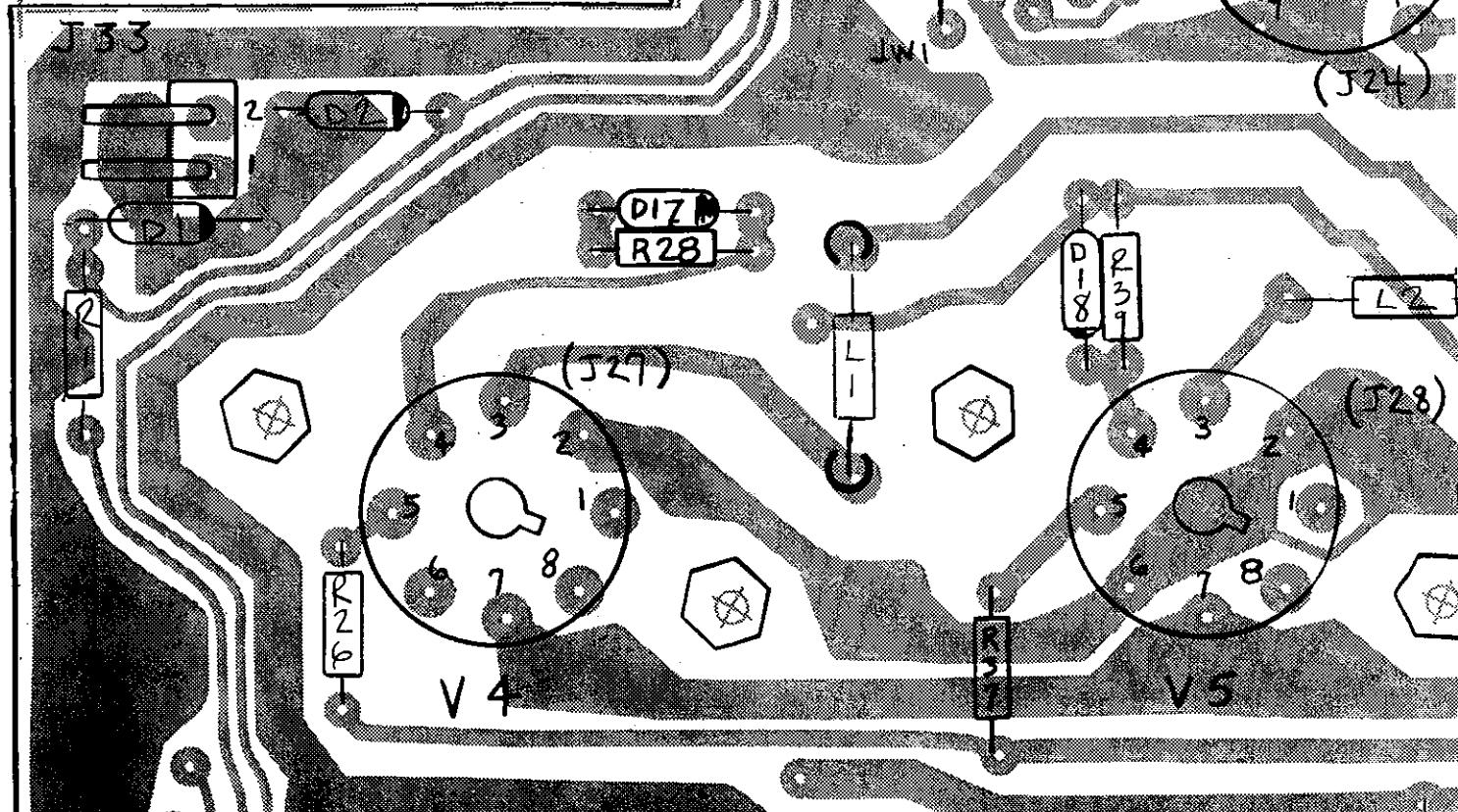
REPLACE R23  
WITH  
JUMPER  
WIRE

OUTPUT

OR

INPUT  
GND  
FIL.  
FIL.  
N/U  
300V

TO BAL. OUT



## HISTORY

Two problems have been occurring in the SVT-II: excessive hum in the midrange control circuit and damage to the pc board from power tube faults.

The hum in the midrange control circuit is due to magnetic pickup from the power transformer into the toroidal inductor used in this circuit. The original design allowed a wide tolerance in the noise induced into the coil which made some units much noisier than others.

Some power tubes experience intermittent shorts and arcing when new. This action "clears" the tubes and they then function normally. However, these shorts are not severe enough to cause the fuse to blow and this causes the 5 ohm plate resistors or the 1 ohm cathode resistors to burn. This in turn burns the pc board.

The 5 ohm plate resistors are replaced by ferrite beads. These provide some small impedance (about 50 ohms) at high frequencies to keep the power amp stable. They are basically a wire at audio frequencies so there is no power loss in them. A diode (1N5401-or similar) is placed across each of the 1 ohm cathode resistors with the cathode of the diodes facing ground. This will limit the voltage across the resistors to 0.6 volts. The diode will take the excess current. This will not affect normal operation or biasing of the amp.

These parts will provide a much more severe short to the power supply in case of a tube fault which will blow the fuse. The arcing in a new tube will clear itself in a short time and will not blow a 10 amp slow blow fuse. The diode and ferrite bead will not be damaged and the amp will operate normally.

## MODIFICATION

### PREAMP PC ASSEMBLY 07-519-01 (SVT-II only)

The pc board must be removed from the chassis for this replacement. Remove toroidal inductor, 94-602-32 (L1) and replace with supplied unit. Note the orientation of pin 1.

Note: Since the original inductors vary widely as to the amount of hum pickup, some of the quieter units will not be improved by this change. It may be worthwhile to only change inductors on the noisier units.

### POWER AMP PC ASSEMBLY 07-419-02 (easy, field modification)

This modification can be done without removing the pc assembly.

Add six ferrite beads, 94A001-01, one each in parallel with R27, R30, R32, R38, R41 and R44 mounting on bottom of board. Use care to insure leads do not touch any other traces or component leads. Keep beads close to the board in order to have as much clearance as possible to the chassis bottom.

DR  
Add two 1N5401 diodes, 21-541-01, one each in parallel with R35 and R36. Be sure cathodes point toward ground as shown in pictorial. These components will also fit on the bottom of the board; make sure they are as close to the board as possible so that the diodes clear the chassis and chassis bottom when assembled.

### POWER AMP PC ASSEMBLY 07-419-02 (factory modification)

The pc assembly must be removed for this modification.

Remove six power tube sockets and power tube bracket. Replace R27, R30, R32, R38, R41 and R44 each with ferrite bead, 94A001-01. Be sure leads do not touch any pc board traces.

Add two 1N5401 diodes, 21-541-01. one each in parallel with R35 and R36, soldering leads securely to the resistor leads. Be sure cathodes point toward ground as shown in pictorial.

Replace the power tube bracket and the tube sockets; this time with the bracket of top of the sockets (this will facilitate easy future removal of the bracket). Tighten all mounting screws before resoldering the sockets onto the pc board. Be sure to orient the sockets as shown in the pictorial.

George McKale, project engineer

## BLM PART NO.

76-223-01

## PART

R1 22K 76-223-01  
R2 22K 76-223-01  
R3 22K 76-223-01  
R4 3.3K 76-232-01  
R5 560 76-232-01  
R6 100K 76-104-01  
R7 560 76-561-01  
R8 22K 76-223-01  
R9 470 75-471-01  
R10 120K 76-120-01  
R11 10K 76-471-01  
R12 100K 76-104-01  
R13 330 76-231-01  
R14 100K 76-104-01  
R15 470 76-471-01  
R16 2.2K 76-325-01  
R17 220K 76-223-01  
R18 4.7K 76-472-01  
R19 10K 76-103-01  
R20 100K 76-103-01  
R21 2.2K 76-223-01  
R22 1.9K 76-169-01  
R23 1K 76-169-01  
R24 1K 76-169-01  
R25 1K 76-169-01  
R26 10K 76-169-01  
R27 220K 76-223-01  
R28 1/2W 560 77-561-01  
R29 100K 76-223-01  
R30 100K 76-169-01  
R31 15K 75-153-01  
R32 15K 75-153-01  
R33 15K 76-473-01  
R34 15K 76-473-01  
R35 15K 76-331-01  
R36 15K 76-163-01  
R37 4.7K 76-471-01  
R38 10K 76-169-01  
R39 2.2K 76-223-01  
R40 10K 76-471-01  
R41 100K 76-104-01  
R42 560 1/2W 77-561-01  
R43 10K 76-471-01  
R44 150 1W 76-143-01  
R45 150 1W 76-151-01  
R46 100K 76-169-01  
R47 100K 76-169-01  
R48 10 76-010-01  
R49 1 76-010-01  
R50 1 100K 76-010-01  
C1 02.2 12-223-01  
C2 22 22-16V NP  
C3 22-16V NP  
C4 .01 100K 11  
C5 1.0 NP 100K 10-11  
C6 .022 100K 10-11  
C7 .033 100K 10-11  
C8 .022 100K 10-11  
C9 .022 100K 10-11  
C10 .01 100K 10-11  
C11 2.2K NP 12-223-01  
C12 .022 100K 10-11  
C13 .022 100K 10-11  
C14 .022 100K 10-11  
C15 .0022 100K 10-11  
C16 .0022 100K 10-11  
C17 10.15V 100K 10-11  
C18 2.2K NP 12-223-01  
C19 10.15V 100K 10-11  
C20 1.0/25V 120105-01  
C21 330P 100K 10-01  
C22 1.00/25V 100K 10-01  
C23 1.00/25V 100K 10-01  
C24 .033 100K 10-01  
C25 .022 100K 10-01  
C26 230P 100K 10-01  
C27 10.15V 100K 10-11  
C28 .0022 100K 10-01  
D1 RED-BRN LED 21-591-01  
J1 JNK-002 21.0105-01  
D2-5 1N735A 100K 10-01  
D6-7 1N914 2.0314-01  
D8-10 1N914 95-112-01  
Q1 T14-255 37-455-01  
IC1-5 NE5522 27-532-01  
IC6 2 PIN HOR 17-311-02  
J1 6 PIN HOR 17-311-02  
J2 1.1" T.B. 29-012-01  
J3 .187" TUB 17-891-01  
J4-6 JUMPER 76-008-01  
P1-7 200L PER 70-203-01  
N1 6-32 SPACER 65-1-23-01  
N2 6-32 SCREW 30-63-01  
PCB 06A728-01

NOTES: 1) UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE IN OHMS 1/4 WATT, S.V. ALL CAPACITORS ARE IN MICROFARADS AND HAVE A 50 VOLT RATING (MINIMUM).

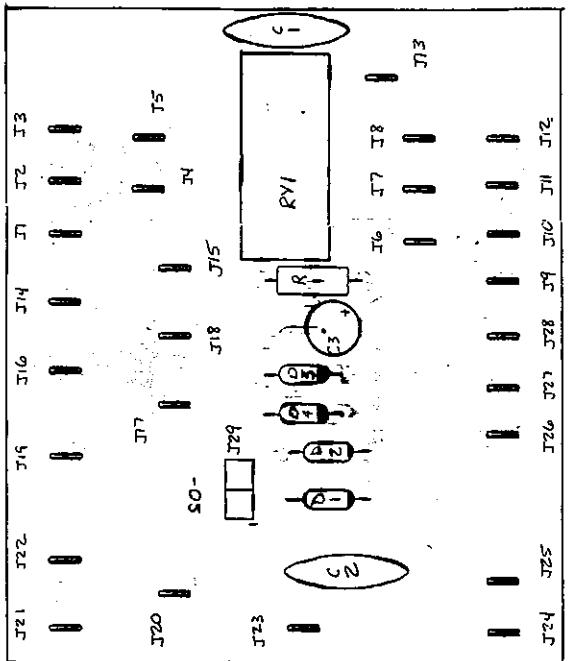
PC ASSY 01-128 OI

SYT-II GRAPHIC EQ PICTORIAL

REVISIONS		REVISIONS	
AD	DATE	AD	DATE
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	

SYT-II DRAWING NO. 01-128-01  
DRAWN BY G.M. DATE 11-1-88  
CHECKED — BY —  
APPROVED — BY —  
REVISED — BY —  
PRINTED — BY —  
PCB — BY —

SIR II AC TERM P.C. ASSY



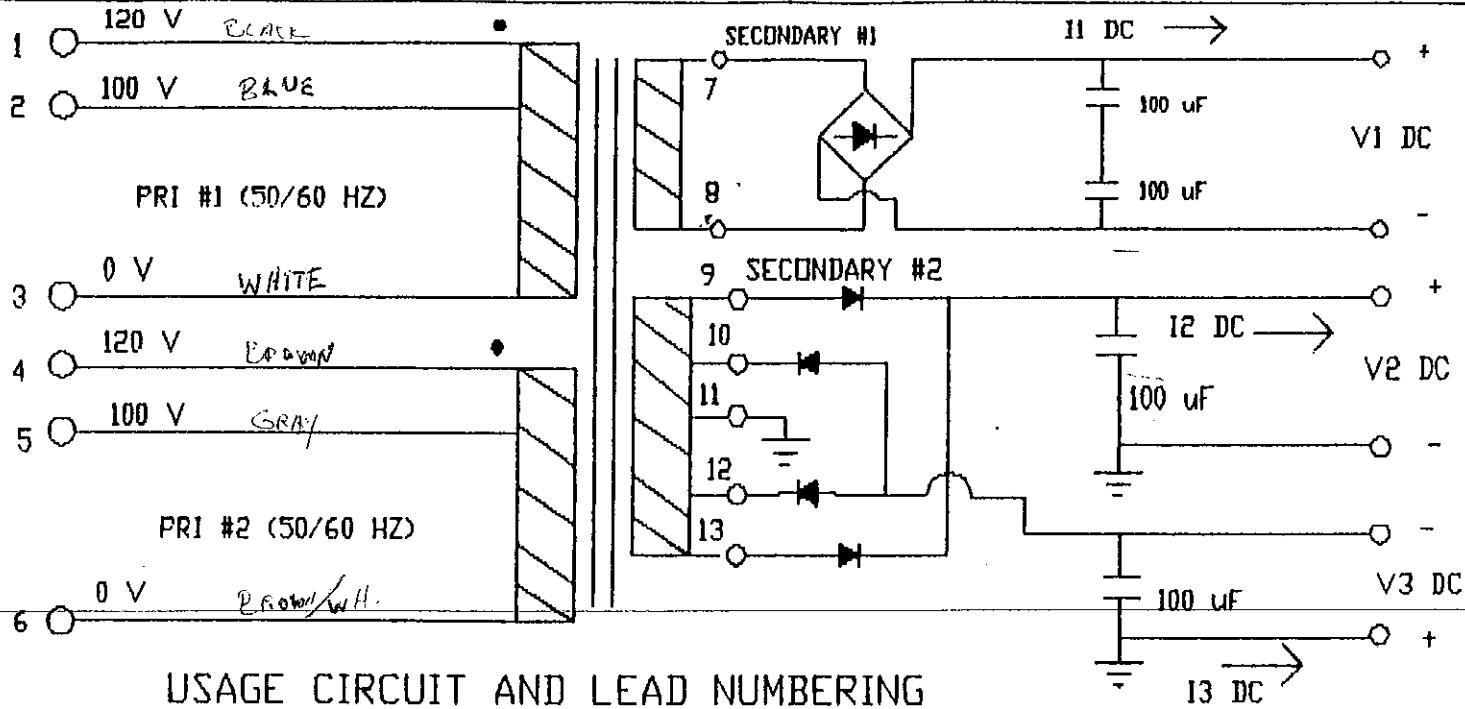
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							C2	.01 uF U.L.	10-103-01
							C3	220uF/16V	12-227-02
J20							01	1N4002	214402-01
							02	1N4002	214402-01
							03	1N4002	214402-01
							04	1N4002	214402-01
							RY1	5 VDC RELAY	62-505-01
							J1	.187 ST. PC TAB	17-894-01
							J2	.187 ST. PC TAB	17-894-01
							J3	.187 ST. PC TAB	17-894-01
							J4	.187 ST. PC TAB	17-894-01
							J5	.250 ST. PC TAB	17-836-01
							J6	.250 ST. PC TAB	17-836-01
							J7	.187 ST. PC TAB	17-836-01
							J8	.187 ST. PC TAB	17-836-01
							J9	.187 ST. PC TAB	17-836-01
							J10	.187 ST. PC TAB	17-836-01
							J11	.250 ST. PC TAB	17-836-01
							J12	.187 ST. PC TAB	17-836-01
							J13	.187 ST. PC TAB	17-836-01
							J14	.250 ST. PC TAB	17-836-01
							J15	.250 ST. PC TAB	17-836-01
							J16	.187 ST. PC TAB	17-836-01
							J17	.250 ST. PC TAB	17-836-01
							J18	.250 ST. PC TAB	17-836-01
							J19	.250 ST. PC TAB	17-836-01
							J20	.250 ST. PC TAB	17-836-01
							J21	.187 ST. PC TAB	17-836-01
							J22	.187 ST. PC TAB	17-836-01
							J23	.187 ST. PC TAB	17-836-01
							J24	.187 ST. PC TAB	17-836-01
							J25	.187 ST. PC TAB	17-836-01
							J26	.250 ST. PC TAB	17-836-01
							J27	.187 ST. PC TAB	17-836-01
							J28	.187 ST. PC TAB	17-836-01
							J29	2 PIN HEADER	17-310-02

PCB 05A319-02

R1 10R 1/2W 77-100-01

ART REV. O

TOLERANCES INTER. & OUT. DIM.		MANUFACTURE NO.		REVIEWED BY NO.		SIR II ASSY	
ENCL. 1		ENCL. 1		ENCL. 1		ENCL. 1	
A.C.	DISCRIMINATOR	H/L	SCALE 4	2:1	DATA SHEET	1.30 .91	REV. NO. TP311-02
MANUFACTURER	CHD	/M	APP'D				
ASSEMBLY	4		TRACED				
TEST	*						



### USAGE CIRCUIT AND LEAD NUMBERING

LEAD	GAUGE	COLOR	LENGTH	TERMINATION
1	AS NEEDED	BLACK	10'	.250' FULLY INSULATED RIGHT ANGLE FASTON
2	'	BLUE	10'	.250' FULLY INSULATED RIGHT ANGLE FASTON
3	'	WHITE	11'	.250' FULLY INSULATED RIGHT ANGLE FASTON
4	'	BROWN	11'	.250' FULLY INSULATED RIGHT ANGLE FASTON
5	'	GRAY	11'	.250' FULLY INSULATED RIGHT ANGLE FASTON
6	'	BROWN-WH.	10'	.250' FULLY INSULATED RIGHT ANGLE FASTON
7	'	RED-WHITE	13'	.250' FULLY INSULATED RIGHT ANGLE FASTON
8	'	RED	13'	.250' FULLY INSULATED RIGHT ANGLE FASTON
9	'	VIOLET	13'	.250' FULLY INSULATED RIGHT ANGLE FASTON
10	'	BLUE-YEL.	13'	.250' FULLY INSULATED RIGHT ANGLE FASTON
11	'	ORANGE	12'	.250' FULLY INSULATED RIGHT ANGLE FASTON
12	'	GRN.-YEL.	13'	.250' FULLY INSULATED RIGHT ANGLE FASTON
13	'	GREEN	13'	.250' FULLY INSULATED RIGHT ANGLE FASTON

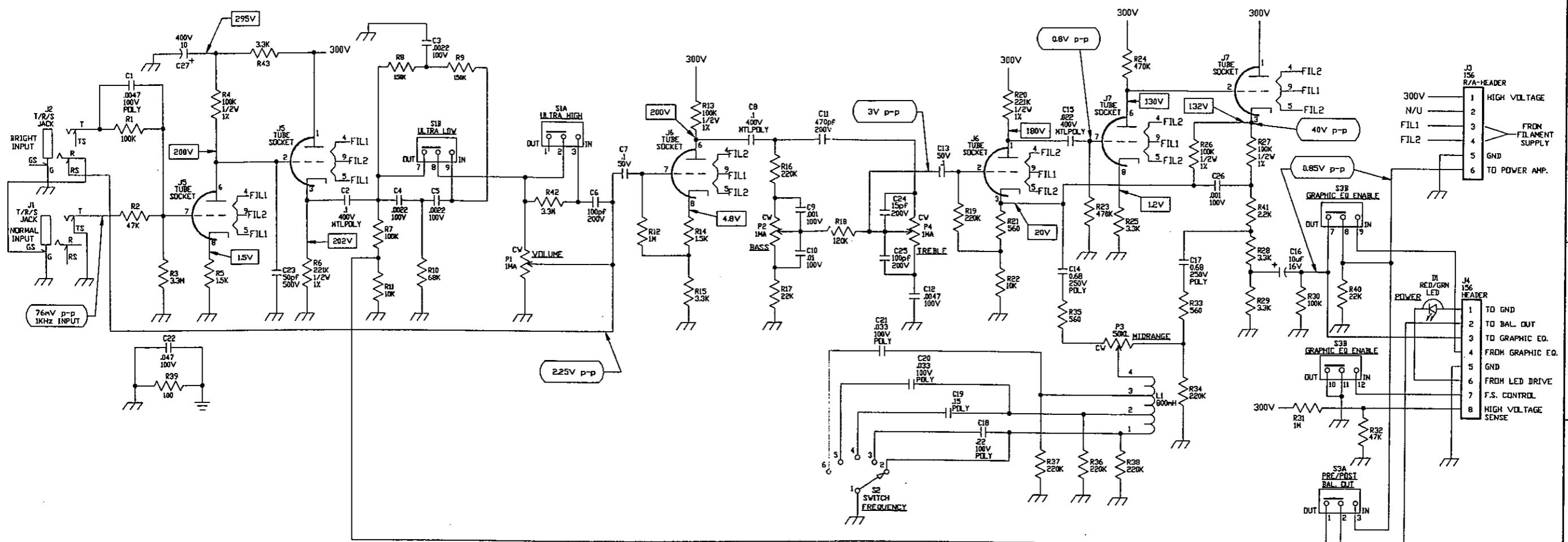
JLM ELECTRONICS  
11880 BORMAN DRIVE  
ST LOUIS, MO 63146  
TEL 314-569-0141  
TELEX 5106004723

1/88 EXPORT  
REV A  
01P3

SVT-II  
POWER TRANSFORMER

94-602-01

P3


**NOTES**

- 1) CAUTION: SHOCK HAZARD!!  
THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER  
AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE  
TOUCHING INTERNAL PARTS.
- 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.  
CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
- 3) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE  
AND 10 MEGOHM DIGITAL VOLTMETER.
- 4) CIRCUIT GROUND  $\perp$  CHASSIS GROUND  $\perp$
- 5) **295V** DC VOLTAGES, NO INPUT SIGNAL

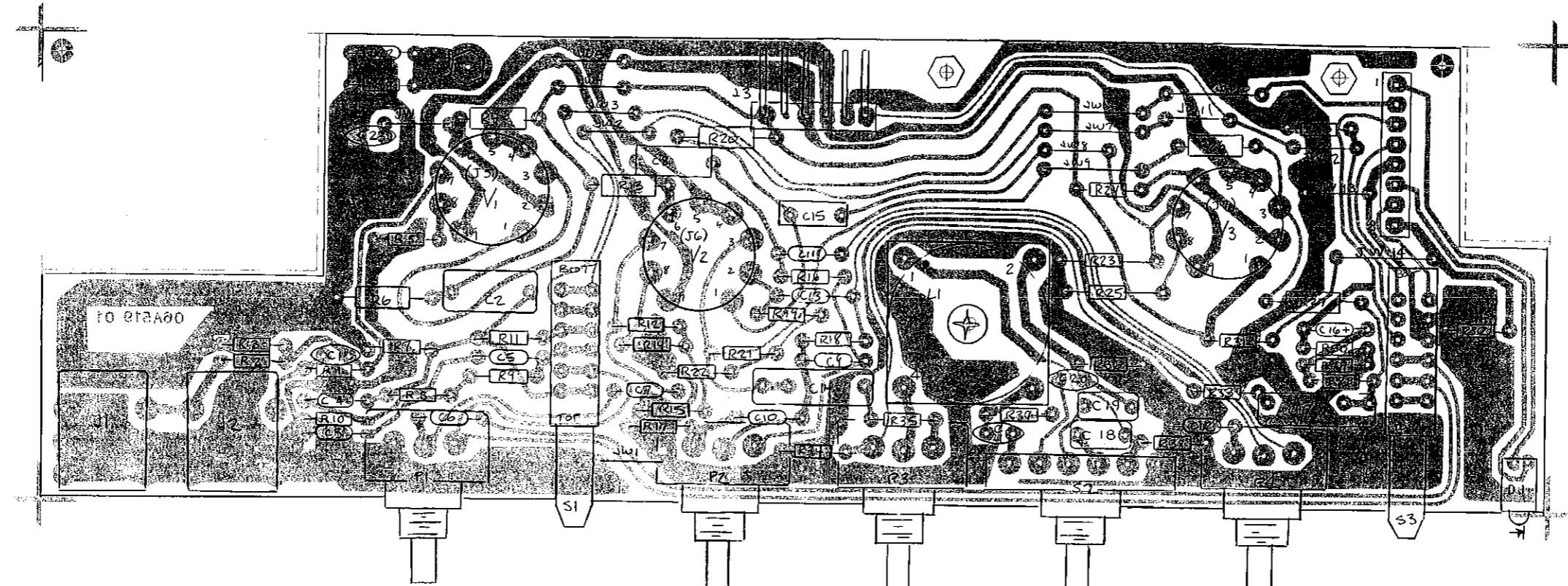
**76mV p-p**  
**1KHz INPUT** AC VOLTAGES, 1KHz SIGNAL, ALL TONES FLAT, VOLUME @ '10',  
SWITCHES 'OUT'.

**CAUTION:**

THIS SCHEMATIC IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.  
TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL. DO NOT PERFORM ANY SERVICING BEYOND  
THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

SIGNATURES:	DATE:
DRAWN: SWR	5/11/92
CHK'D: GM	06/09/92
APP'D: GM	06/09/92
ORIGINAL ISSUED: 06/09/92	
PLOT DATE: 06/10/92	
PLOT TIME: 10:10:54	
FILE NAME: SS1902	
SCALE: NONE	
PROJECT NAME: SVT-II	
DRAWING NAME: PRE-AMP SCHEMATIC	
DRAWING NO. 07S519-02	
SCALE: NONE	
SHEET: 1 OF 1	

PART	VALUE	SLM PART NO.	PART	VALUE	SLM PART NO.	PART	VALUE	SLM PART NO.	PART	VALUE	SLM PART NO.
R1	100K	76-104-01	R25	.3K	76-332-01	C6	.1 400V	10-104-41	S1	4PDT	88-303-01
R2	47H	76-473-01	R26	100K 1/2W	77-104-01	C9	.001 100V	10A102-11	S2	ROTARY	88-107-01
R3	2.3M	76-235-01	R27	100K 1/2W	77-104-01	C10	.01 100V	10A103-11	S3	4PDT	88-303-01
R4	100K 1/2W 1%	77-104-02	R28	.3K	76-332-01	C11	.470p 200V	10A471-21	JH1, S, 13	JUMPER HD	76-000-02
R5	1.2M	76-152-01	R29	.3K	76-332-01	C12	.0047 100V	10A472-11	JW2~4,		
R6	220K 1/2W	77-224-01	R30	100K	76-104-01	C13	.1 50V	10A104-01	6-12,		
R7	100K	76-104-01	R31	1M	76-105-01	C14	.68 200V	10-684-21	14, 15	JUMPER	76-000-01
R8	150K	76-154-01	R32	47K	76-473-01	C15	.01 400V	10-103-41	J1, 2	1/4" JACK	39-119-01
R9	150K	76-154-01	R33	.56	76-561-01	C16	1.0 50V	12A105-51	J3	6 PIN HDR	17-311-06
R10	50K	76-683-01	R34	220K	76-224-01	C17	.68 200V	10-684-21	J4	8 PIN HDR	17-310-08
R11	1M	76-105-01	R35	.478	76-471-01	C18	.22 100V	10-224-03	J5-7	9 PIN SOCKET	17-458-09
R12	1M	76-105-01	R36	220K	76-224-01	C19	.15 100V	10-154-02	(3)	HEX STANDOFF	85-065-01
R13	100K 1/2W 1%	77-104-02	R37	220K	76-224-01	C20	.033 100V	10-333-02	(3)	6-32 SCREW	38-638-53
R14	1.5K	76-152-01	R38	220K	76-224-01	C21	.033 100V	10-333-02	(1)	8-32 SCREW	38-604-01
R15	3.3K	76-332-01	R39	.100	76-101-01	C22	.047 100V	10A473-11	(1)	#8 LOCKWASHER	38-801-01
R16	220K	76-224-01	R40	22K	76-223-01	C23	.50p 500V	10-200-02	(1)	R. A. MOUNT	68-935-01
R17	22K	76-223-01	C1	.0047 POLY	10-472-01	D1	LED	21-291-01	(1)	PC BOARD	86A519-01
R18	120K	76-124-01	C2	.1 400V	10-104-41	L1	INDUCTOR	94-602-32			
R19	1M	76-105-01	C3	.0022 100V	10A222-11	V1-3	12AX7	95-127-01			
R20	220K 1/2W	77-224-01	C4	.0022 100V	10A222-11	P1, 2	1MA	70-105-12			
R21	.56	76-561-01	C5	.0022 100V	10A222-11	P3	.50KL	70-103-17			
R22	10K	76-103-01	C6	.470p 200V	10A471-21	P4	1MA	70-105-12			
R23	1M	76-105-01	C7	.1 50V	10A104-01						
R24	470K	76-474-01									

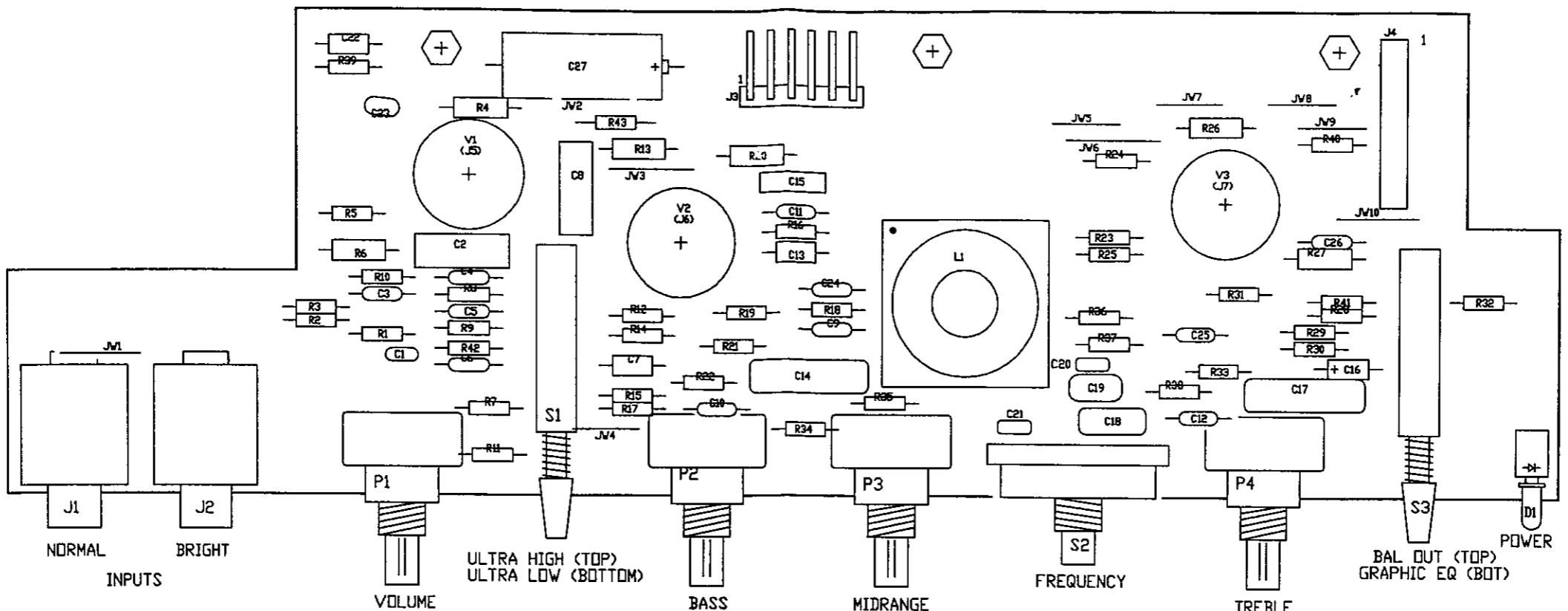


NOTES: 1) UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE IN OHMS 1/4 WATT, 5%. ALL CAPACITORS ARE IN MICROFARADS AND HAVE A 50 VOLT RATING (MINIMUM).

TOLERANCES (EXCEPT AS NOTED)	REVISIONS		
	NO.	DATE	BY
DECIMAL	1		
FRACTIONAL	2		
ANGULAR	3		
	4		
	5		

SVT-II PREAMP BD.  
P.C. ARTWORK

SLM ELECTRONICS	ST. LOUIS
1400 FERGUSON AVE.	MO 63133
DRAWN BY: <i>[Signature]</i>	SCALE: 2X
CHK'D: <i>[Signature]</i>	DATE: 8-23-88
TRACED: <i>[Signature]</i>	DRAWING NO. 07-519-01



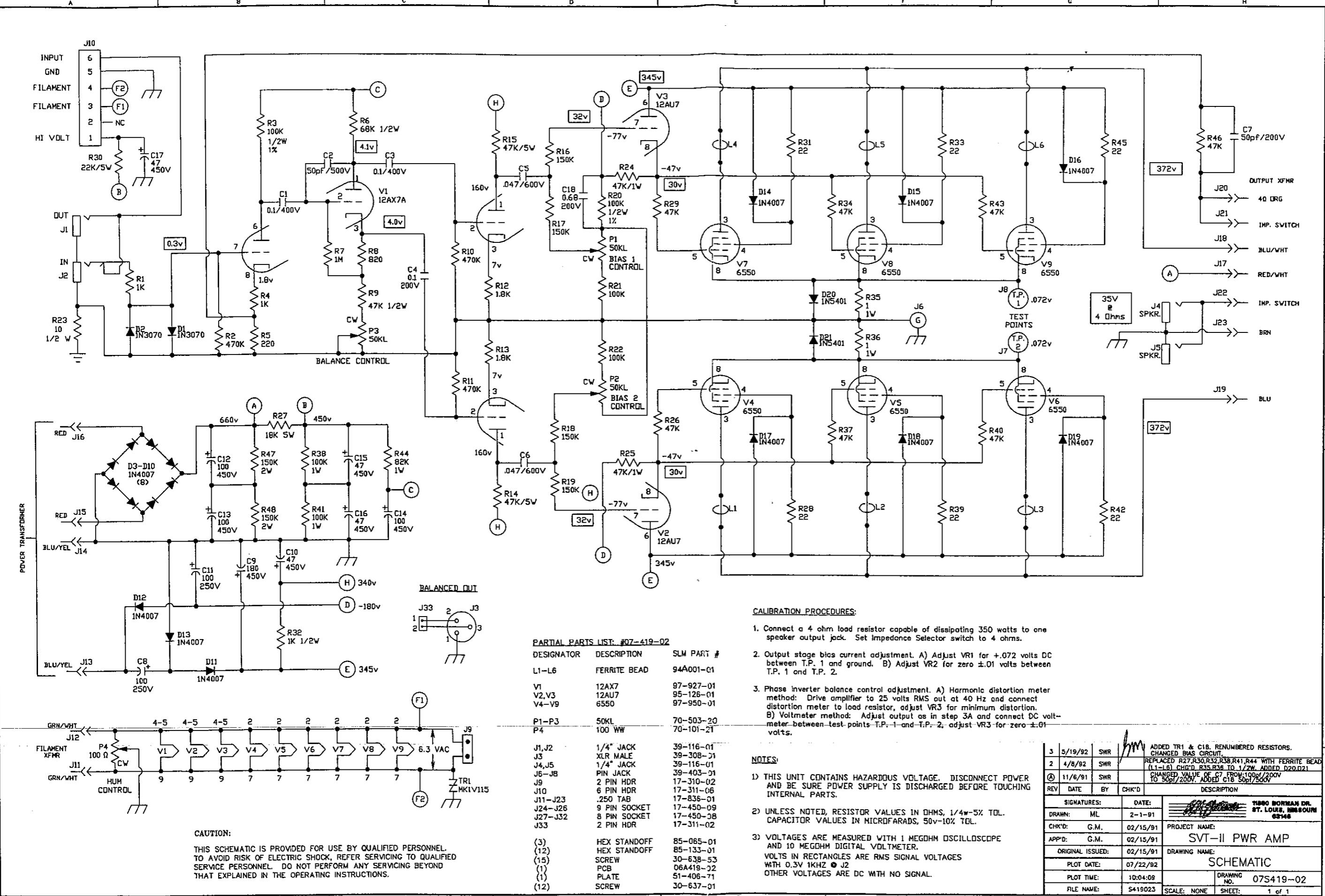
DESIGNATOR	PART #	DESCRIPTION								
C1	10-472-01	.0047	100V	R2	76-473-01	47K		V1	97-127-01	12AX7 TUBE
C2	10-104-10	.1	400V	R3	76-335-01	3.3M		V2	97-127-01	12AX7 TUBE
C3	10A222-11	.0022	100V	R4	77-104-02	100K	1/2W	V3	97-127-01	12AX7 TUBE
C4	10A222-11	.0022	100V	R5	76-152-01	1.5K				
C5	10A222-11	.0022	100V	R6	77-224-02	221K	1/2W	3	85-065-01	1 7/16 STANDOFF
C6	10A101-21	100pf	200V	R7	76-104-01	10K		3	30-638-53	6-32 x 3/8" SCREW
C7	10A104-01	.1	50V	R8	76-154-01	150K		1	06A519-02	PRINTED CIRCUIT BOARD
C8	10-104-10	.1	400V	R9	76-154-01	150K		1	68-935-01	LED MOUNT
C9	10A102-11	.001	100V	R10	76-683-01	68K				
C10	10A103-11	.01	100V	R11	76-103-01	10K				
C11	10A471-21	470pf	200V	R12	76-105-01	1M				
C12	10A472-11	.0047	100V	R13	77-104-02	100K	1/2W			
C13	10A104-01	.1	50V	R14	76-152-01	1.5K				
C14	10-684-21	0.68	250V	R15	76-332-01	3.3K				
C15	10-223-10	.022	400V	R16	76-224-01	220K				
C16	12A106-11	10uF	16V	R17	76-223-01	22K				
C17	10-684-21	0.68	250V	R18	76-124-01	120K				
C18	10-224-03	.22	100V	R19	76-224-01	220K				
C19	10-154-02	.15	PDLY	R20	77-224-02	221K	1/2W			
C20	10-333-02	.033	100V	R21	76-561-01	560				
C21	10-333-02	.033	100V	R22	76-103-01	10K				
C22	10A473-11	.047	100V	R23	76-474-01	470K				
C23	10-500-02	50pf	500V	R24	76-474-01	470K				
C24	10A150-21	15pf	200V	R25	76-332-01	3.3K				
C25	10A101-21	100pf	200V	R26	77-104-02	100K	1/2W			
C26	10A102-11	.001	100V	R27	77-104-02	100K	1/2W			
C27	12-106-91	10	400V	R28	76-332-01	3.3K				
D1	21-591-01	RED/GRN LED		R29	76-332-01	3.3K				
J1	39-120-01	T/R/S JACK		R30	76-104-01	100K				
J2	39-120-01	T/R/S JACK		R31	76-105-01	1M				
J3	17-311-06	156 R/A-HEADER		R32	76-473-01	47K				
J4	17-310-08	156 HEADER		R33	76-561-01	560				
J5	17-450-09	TUBE SOCKET		R34	76-224-01	220K				
J6	17-450-09	TUBE SOCKET		R35	76-561-01	560				
J7	17-450-09	TUBE SOCKET		R36	76-224-01	220K				
JW1-JW10	76-000-05	JUMPER		R37	76-224-01	220K				
L1	94-602-32	800mH		R38	76-224-01	220K				
P1	70-105-12	1MA		R39	76-101-01	100				
P2	70-105-12	1MA		R40	76-223-01	22K				
P3	70-503-17	50KL		R41	76-222-01	2.2K				
P4	70-105-12	1MA		R42	76-335-01	3.3M				
R1	76-104-01	100K		R43	76-332-01	3.3K				
S1	88-303-01	SWITCH								
S2	88-107-01	SWITCH								
S3	88-303-01	SWITCH								

PC BOARD ART REV. 1

NOTES  
 1> CAUTION: SHOCK HAZARD!!  
 THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER  
 AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE  
 TOUCHING INTERNAL PARTS.  
 2> UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.  
 CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.

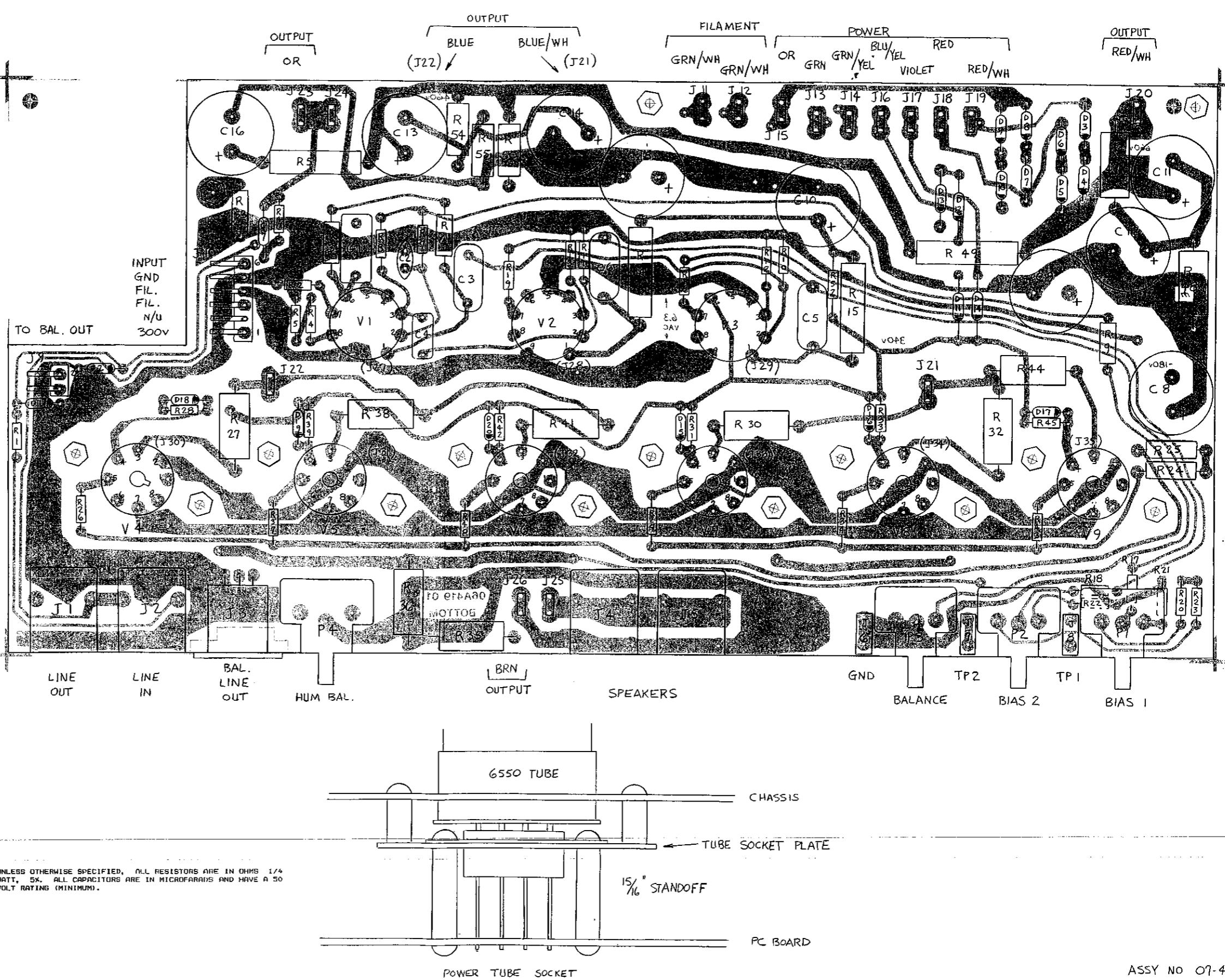
RELEASED

SIGNATURES:	DATE:	
DRAWN:	SWR	5/11/92
CHK'D:	GM	06/09/92
APP'D:	GM	06/09/92
ORIGINAL ISSUED:	06/09/92	
PLOT DATE:	08/11/92	
PLOT TIME:	14:26:20	
FILE NAME:	P51902	
SCALE:	1:1	HEET: 1 OF 1
T1550 BORMAN DR.		ST. LOUIS, MISSOURI
63146		
PROJECT NAME: SVT-II		
DRAWING NAME: PRE-AMP PICTORIAL		
DRAWING NO. 06P519-02		



## TRANSFORMER HOOKUP

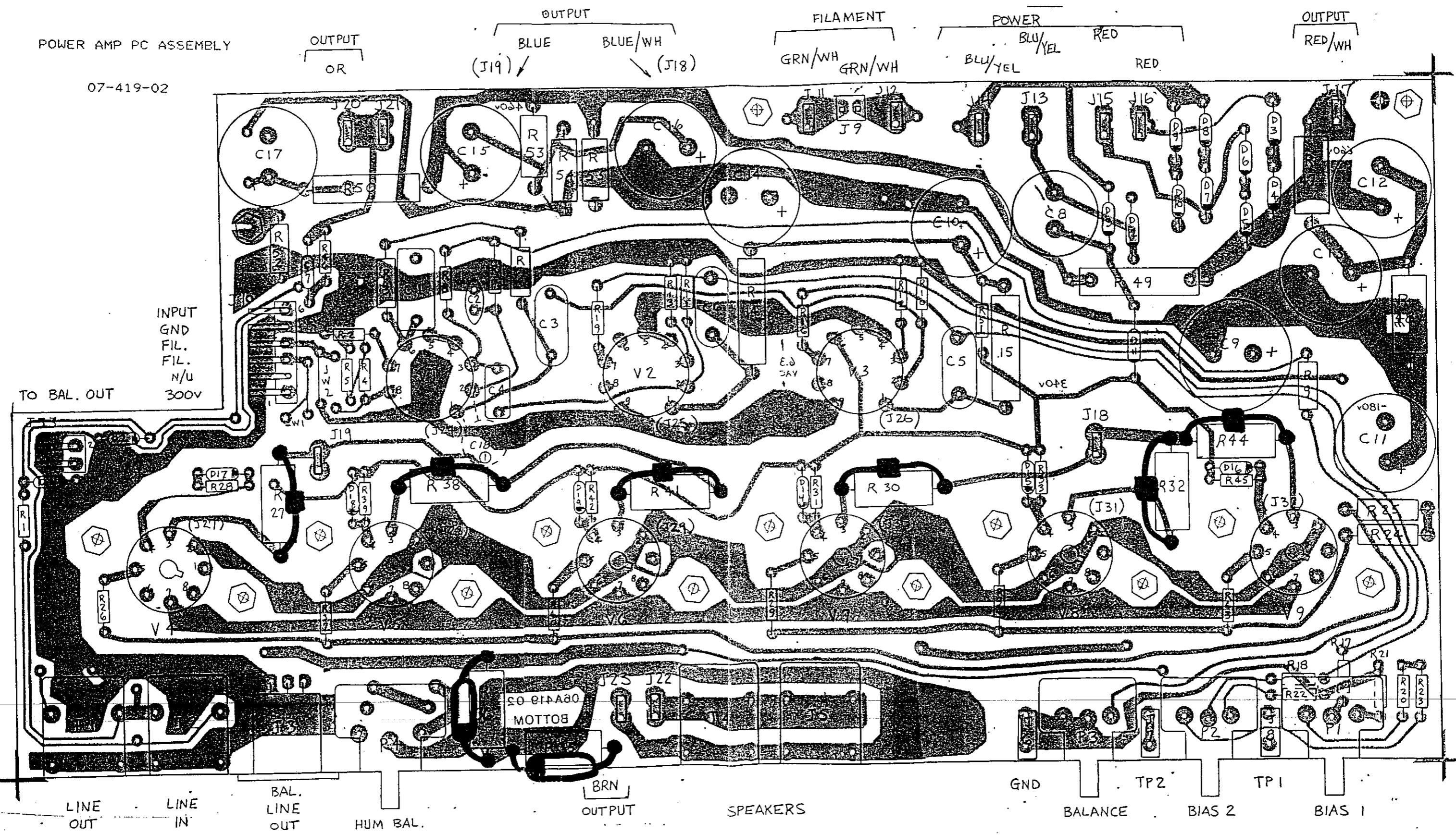
PART	VALUE	BLM PART NO.
R1	1K	76-102-01
R2	470K	76-474-01
R3	100K 1/2W 1%	77-104-02
R4	1K	76-102-01
R5	220	76-221-01
R6	68K 1/2W	77-683-01
R7	1M	76-105-01
R8	820	76-821-01
R9	47K 1/2W	77-473-01
R10	470K	76-474-01
R11	470K	76-474-01
R12	1.8K	76-182-01
R13	1.8K	76-182-01
R14	47K 5W	76-473-05
R15	47K 5W	76-473-05
R16	150K	76-154-01
R17	150K	76-154-01
R18	150K	76-154-01
R19	150K	76-154-01
R20	180K	76-184-01
R21	100K	76-104-01
R22	100K	76-104-01
R23	180K	76-184-01
R24	47K 1W	76-473-01
R25	47K 1W	76-473-01
R26	47K	76-473-01
R27	5 5W	76-058-05
R28	22	76-220-01
R29	47K	76-473-01
R30	5 5W	76-058-05
R31	22	76-220-01
R32	5 5W	76-058-05
R33	22	76-220-01
R34	47K	76-473-01
R35	1 5W	78-010-01
R36	1 5W	78-010-01
R37	47K	76-473-01
R38	5 5W	76-058-05
R39	22	76-220-01
R40	47K	76-473-01
R41	5 5W	78-058-05
R42	22	76-220-01
R43	47K	76-473-01
R44	5 5W	78-058-05
R45	22	76-220-01
R46	47K	76-473-01
R47	150K 2W	78-154-02
R48	150K 2W	78-154-02
R49	18K 5W	78-182-05
R50	82K 1W	78-823-01
R51	22K 5W	78-223-05
R52	1K 1/2W	77-102-01
R53	10 1/2W	77-100-01
R54	100K 1W	78-104-01
R55	100K 1W	78-104-01
C1	.1 400V	10-104-41
C2	50p 500V	10-508-02
C3	.1 400V	10-104-41
C4	.1 200V	10-104-21
C5	.047 600V	10-473-61
C6	.047 600V	10-473-61
C7	100p 200V	101101-21
C8	100 250V	12-107-62
C9	100 450V	12-107-93
C10	47 450V	12-476-42
C11	100 450V	12-107-93
C12	100 450V	12-107-93
C13	47 450V	12-476-42
C14	47 450V	12-476-42
C15	47 450V	12-476-42
C16	47 450V	12-476-42
D1,2	IN3070	21A370-01
D3-20	IN4007	21A407-01
V1	12AX7	95-127-01
VR_3	12AU7	95-126-01
VA_3	6550	95-650-01
P1-3	600V L	70-583-20
P4	100 HM	70-101-21
J1,2	1/4" JACK	39-116-01
J3	XLR MALE	39-300-01
J4,5	1/4" JACK	39-116-01
J6-B	PIN JACK	39-403-01
J9	2 PIN HOR	17-311-02
J10	6 PIN HOR	17-311-05
J11-26	.250 1/8"	17-836-01
J27-29	5 PIN SOCKET	17-450-03
J30-35	5 PIN SOCKET	17-450-03
(3)	HEX STANDOFF	85-065-01
(12)	HEX STANDOFF	85-133-01
(27)	6-32 SCREW	30-620-53
(1)	PC BOARD	060419-01
(1)	PLATE	51-406-71

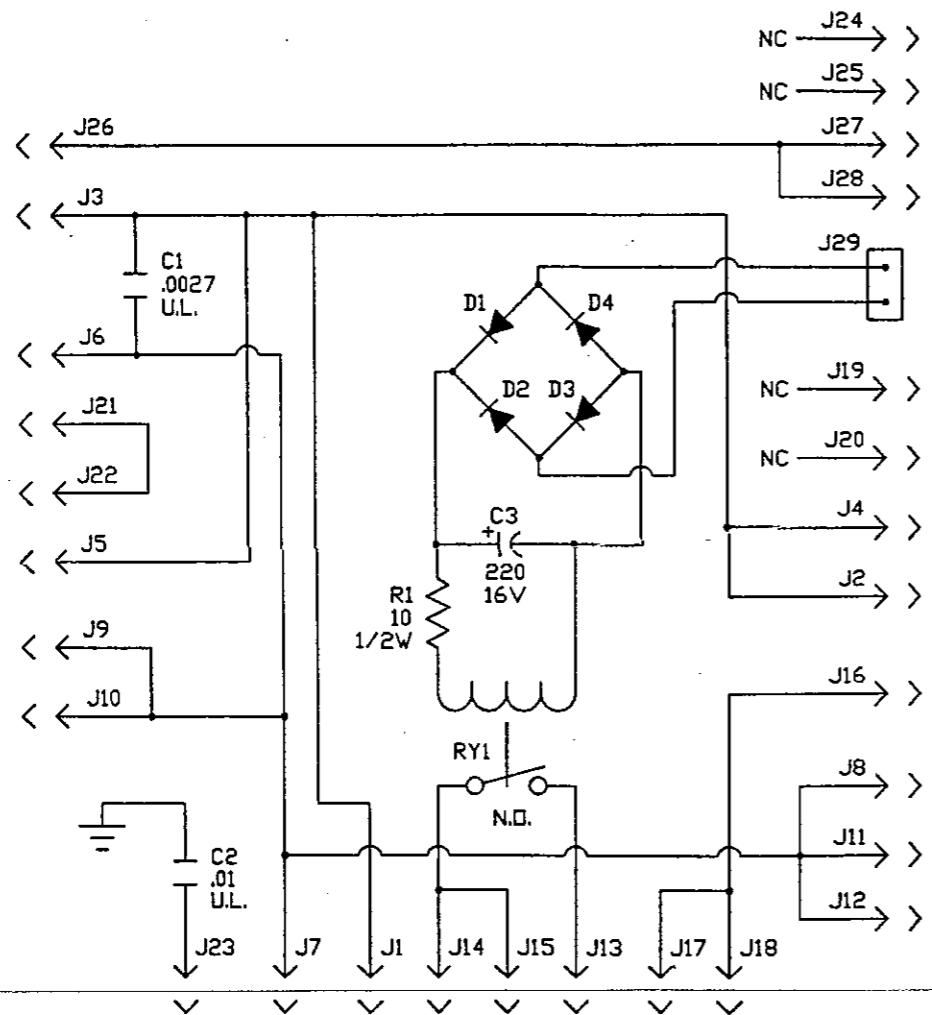


ASSY NO 07-419-01

TOLERANCES (EXCEPT AS NOTED)	REVISIONS		
	NO.	DATE	BY
DECIMAL	1		
FRACTIONAL	2		
ANGULAR	3		
	4		
	5		

SVT-II PWR AMP PICTORIAL  
SLM ELECTRONICS  
1400 FERGUSON ST LOUIS, MO 63133  
DRAWN BY S.M. SCALE - MATERIAL -  
CHKD DATE 10-21-88 APPROVED BY M.  
DRAWING NO. 07-419-01



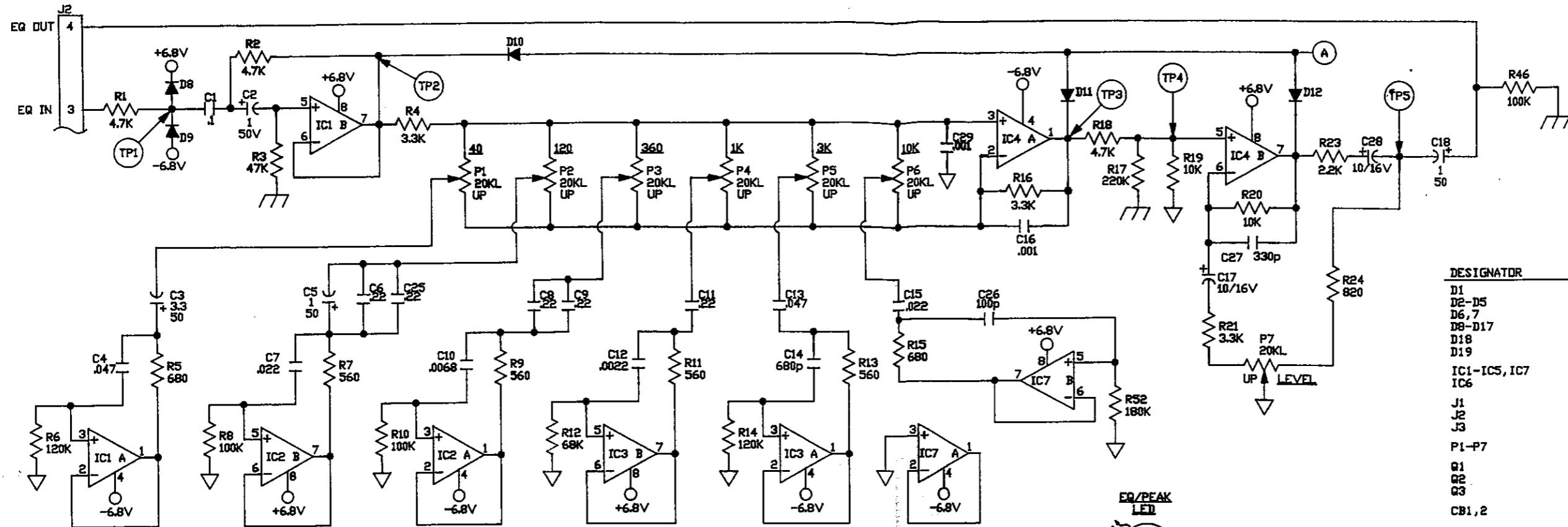


NOTES

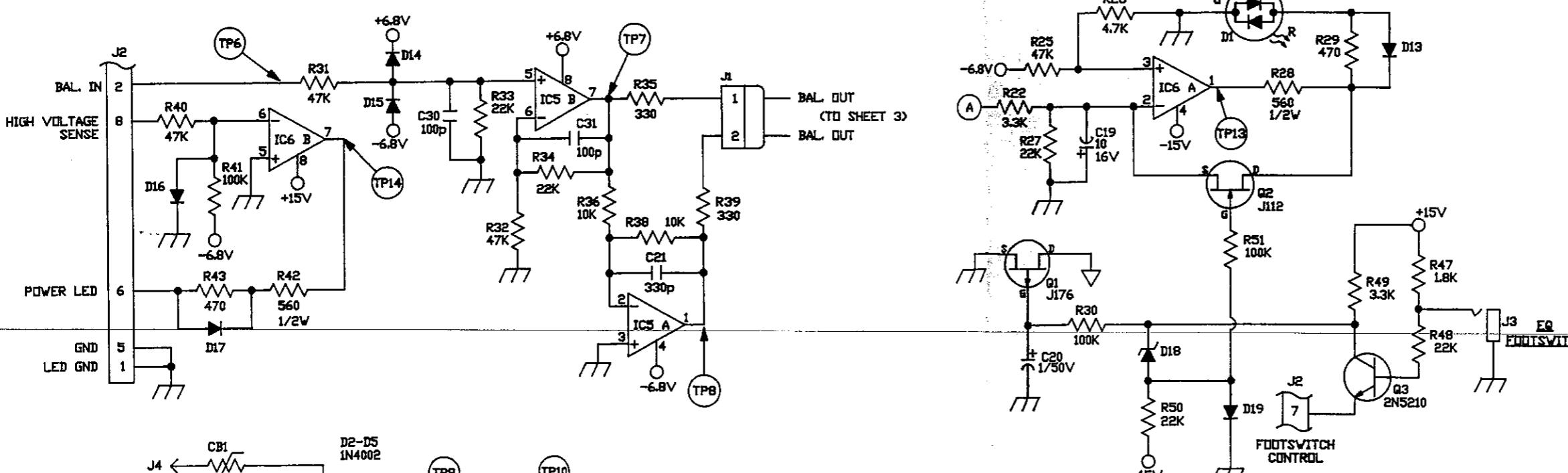
- 1) CAUTION: SHOCK HAZARD!! THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.
- 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.
- 3) CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
- 4) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.
- 5) CIRCUIT GROUND  $\nabla$  SWITCH GROUND  $\nabla$  CHASSIS GROUND  $\nabla$

**CAUTION:**  
THIS SCHEMATIC IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.  
TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL. DO NOT PERFORM ANY SERVICING BEYOND  
THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

SIGNATURES:	DATE:	1880 BORMAN DR. ST. LOUIS, MISSOURI 63146	
DRAWN:	ML	2-7-91	
CHK'D:			PROJECT NAME:
APP'D:			SVT-II/300 AC TERM.
ORIGINAL ISSUED:			DRAWING NAME:
PLOT DATE:	02/11/91		SCHEMATIC
PLOT TIME:	09:19:09		DRAWING NO. 16-319-02
FILE NAME:	1631902	SCALE: NONE	HEET: 1 of 1



DESIGNATOR	DESCRIPTION	SLM PART #
D1	LED, RED-GREEN	21-591-51
D2-D5	1N4002	21A402-01
D6,7	1N754	21A754-01
D8-D17	1N914	21A914-01
D18	1N4743	21A443-01
D19	1N914	21A914-01
IC1-IC5, IC7	TLD72	37-072-01
IC6	NE5532	37-532-01
J1	2 PIN HEADER	17-311-02
J2	8 PIN HEADER	17-311-08
J3	1/4" JACK	39-012-01
P1-P7	20K POT (SLIDER)	70-203-51
Q1	J176	96-176-01
Q2	J112	96-112-01
Q3	2N5210	96-510-01
CB1,2	1/4A THERMISTER	73-101-01



TEST POINTS	VOLTAGE V P-P	VOLTAGE VDC
1	.5	0
2	.5	0
3	.5	0
4	.5 EQ OFF	0
5	.33 EQ ON	0
6	.5	0
7	.23	0
8	.23	0
9	—	+15
10	—	+6.8
11	—	-15
12	—	-6.8
13	V / 3 @ TP1	+14
14	—	-14 (ON)
14	—	+14 (STANDBY)

CONDITIONS  
VOLTAGES ARE MEASURED WITH ALL POTS  
IN CENTER POSITION, FRONT PANEL EQ  
ENABLED (J2-7 @ GND) & BALANCED IN  
INPUT. 1KHz SINE WAVE @ .5Vp-p ER  
IN (J2-3) & BALANCED IN (J2-8)  
TO GND (J2-5).

- NOTES:
- 1) THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.
  - 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.
  - 3) CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
  - 4) VOLTAGES ARE MEASURED WITH 1 MEGOHM OSCILLOSCOPE AND 10 MEGOHM DIGITAL VOLTMETER.
  - 5) CIRCUIT GROUND  $\nparallel$  SWITCHED GROUND  $\nparallel$  CHASSIS GROUND  $\nparallel$

3	3/10/82	SWR	REDESIGN
(2)	11/6/81	SWR	CHANGED VALUE OF C3,C4,C14,C15, C16,R13,R21,R22, AND R26
1	12/6/80	ML	REDRAWN DUE TO CIRCUIT CHANGES
REV	DATE	BY	CHK'D
			DESCRIPTION
			SIGNATURES: DATE: DRAWN: MGA 7-18-89
			CHK'D:
			APP'D:
			ISSUED:
			PLOT DATE: 04/09/82
			PLOT TIME: 12:43:54
			DRAWING NO. 07S728-01
			FILE NAME: 7S728013 SCALE: NONE SHEET: 1 of 1