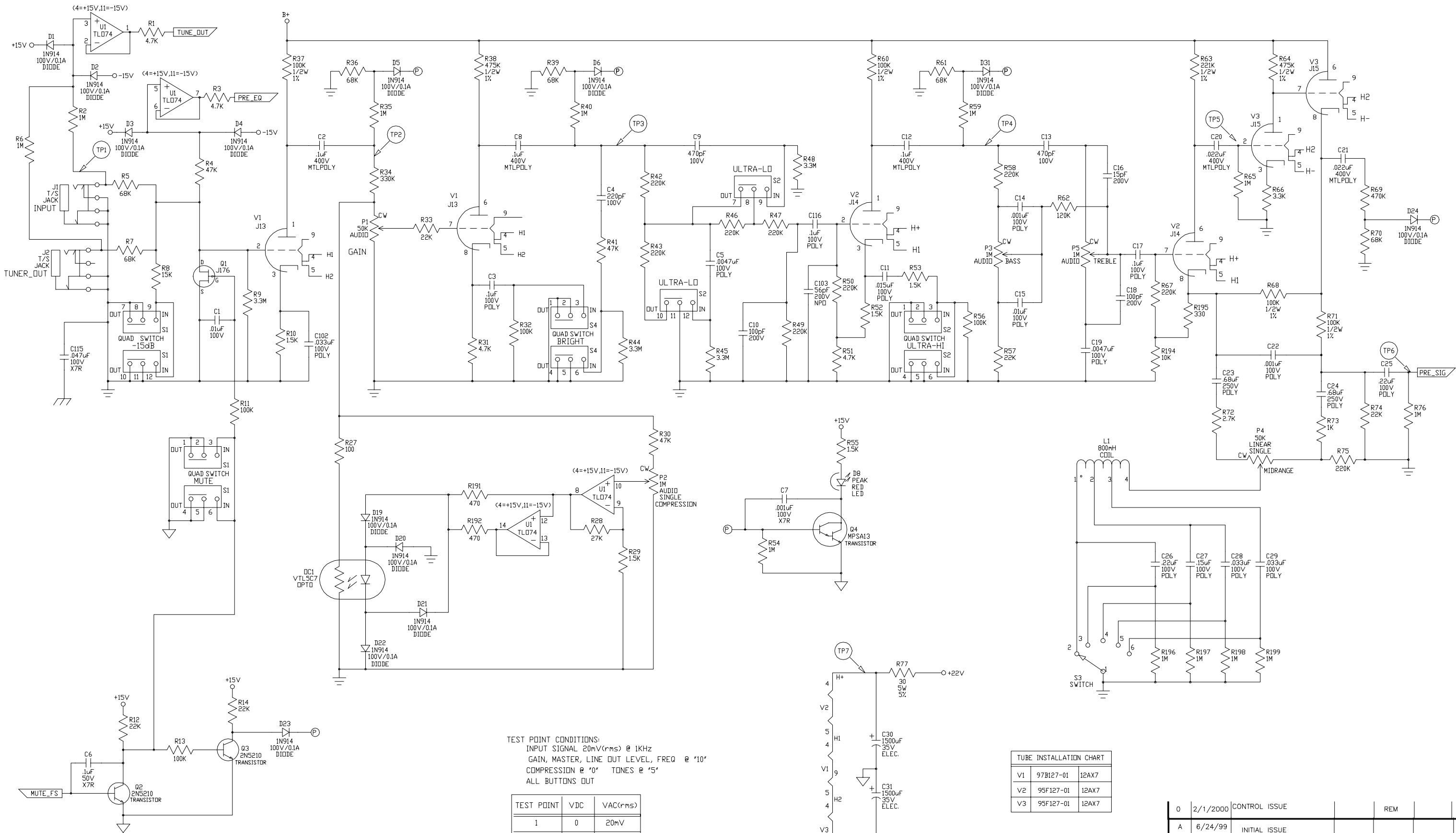


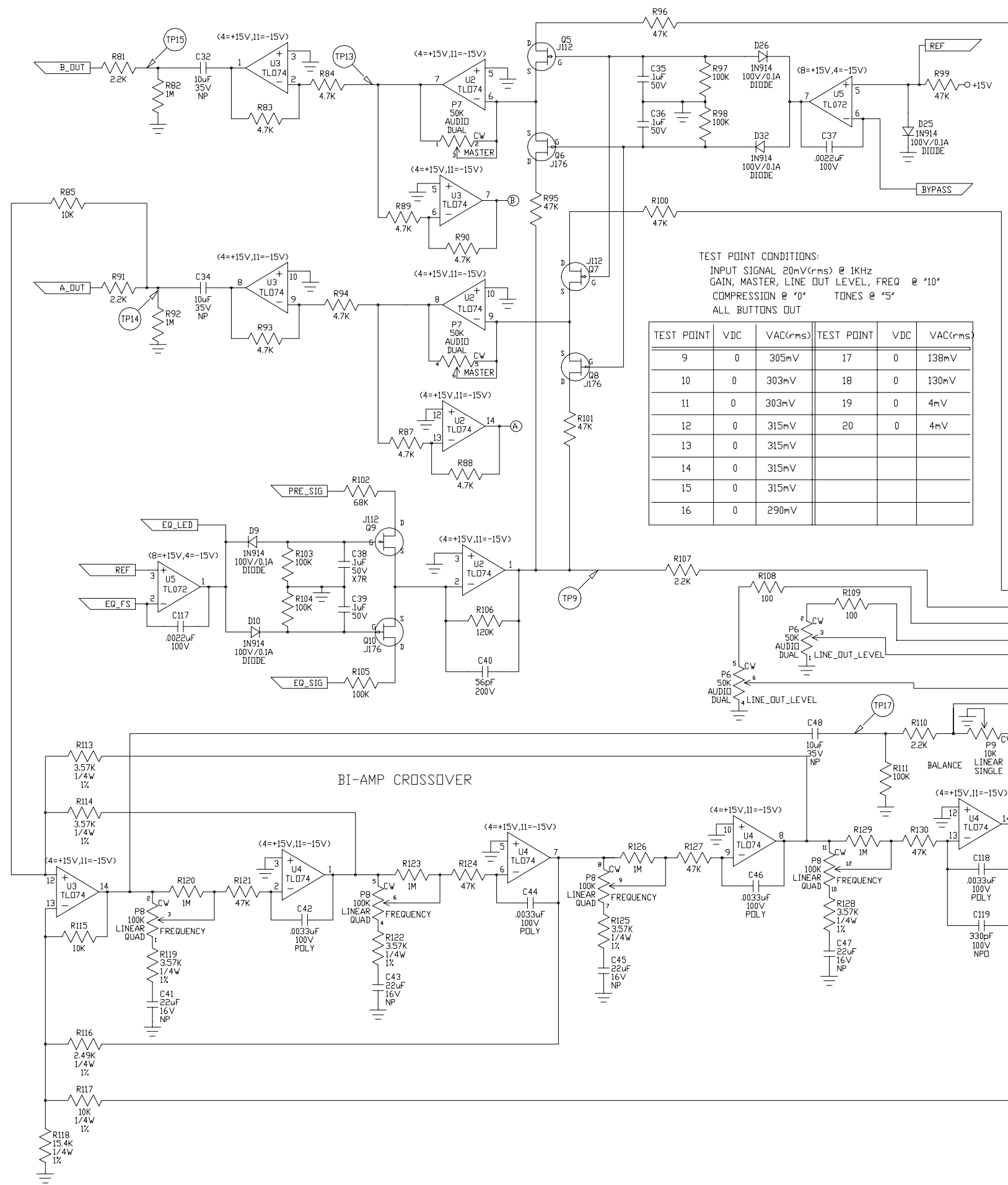


TEST POINT CONDITIONS:
INPUT SIGNAL 20mV(rms) @ 1KHz
GAIN, MASTER, LINE OUT LEVEL, FREQ @ '10'
COMPRESSION @ '0' TONES @ '5'
ALL BUTTONS OUT

TEST POINT	VDC	VAC(rms)
1	0	20mV
2	0	500mV
3	0	866mV
4	0	1.27V
5	95mV	45.5mV
6	0	162mV
7	19.2V	12nV
8	-19.2V	12nV

TUBE INSTALLATION CHART		
V1	97B127-01	12AX7
V2	95F127-01	12AX7
V3	95F127-01	12AX7

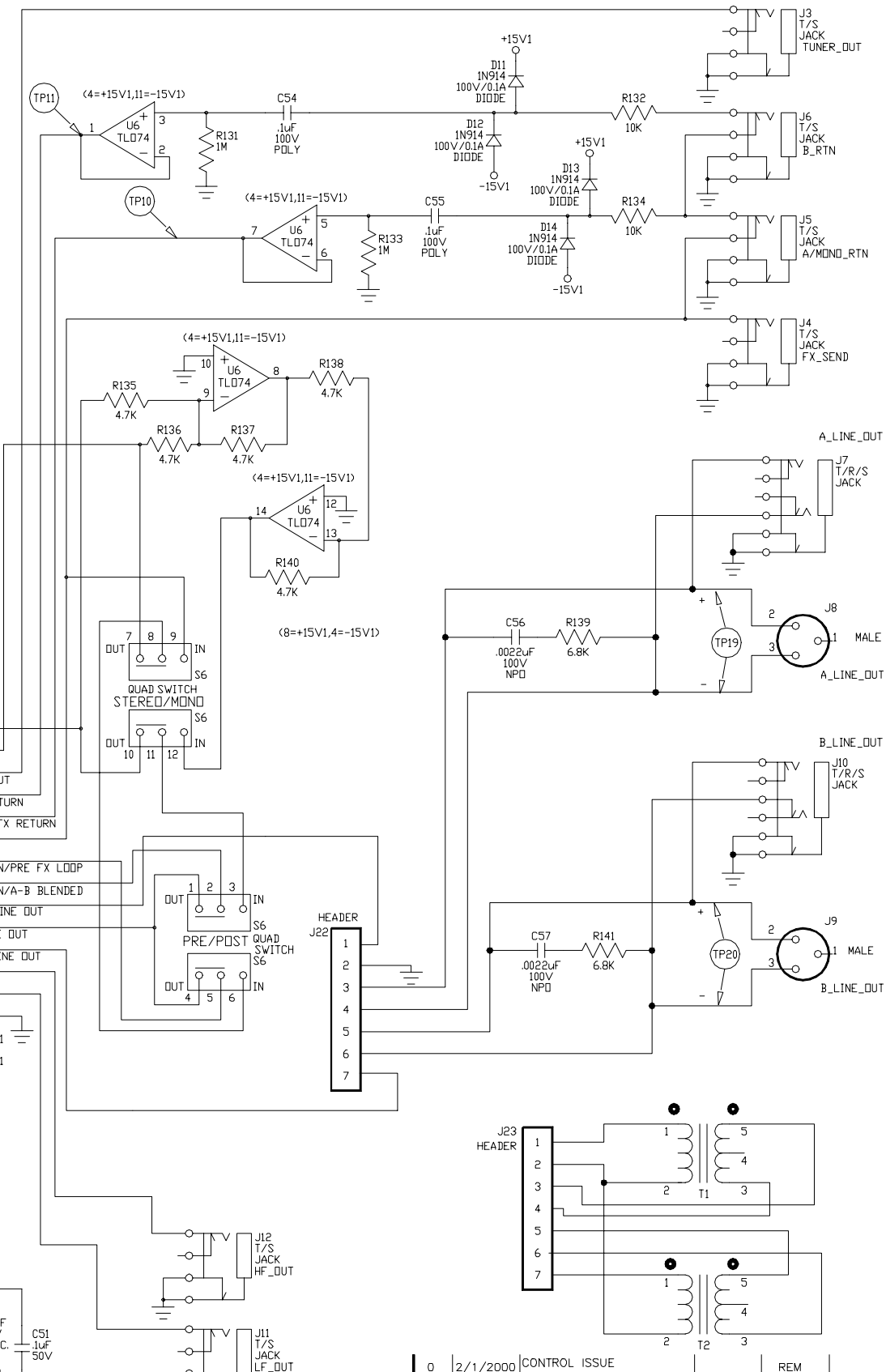
0	2/1/2000	CONTROL ISSUE		REM		
A	6/24/99	INITIAL ISSUE				
REV:	DATE:	DESCRIPTION	ECR/ECN NO:	CHNG'D BY:	APPR'D BY:	DATE:
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.						
SIGNATURES:		DATE:		FIRST USED ON:		
DRAWN:	REM	6/24/99		SVT4PROa		
CHK'D:						
RLS'D:						
TOLERANCES:	DRAWING SIZE:	D	DRAWING TITLE:		SCHEMO - BASS PREAMP	
	DRAWING TYPE:	SCHEMO	DRAWING NO.:		07S539-04	
	CLASS CODE:					
	SCALE:	NONE	SHEET:		1 of 3	



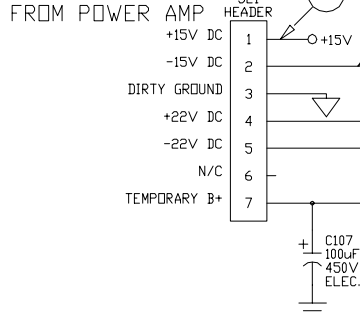
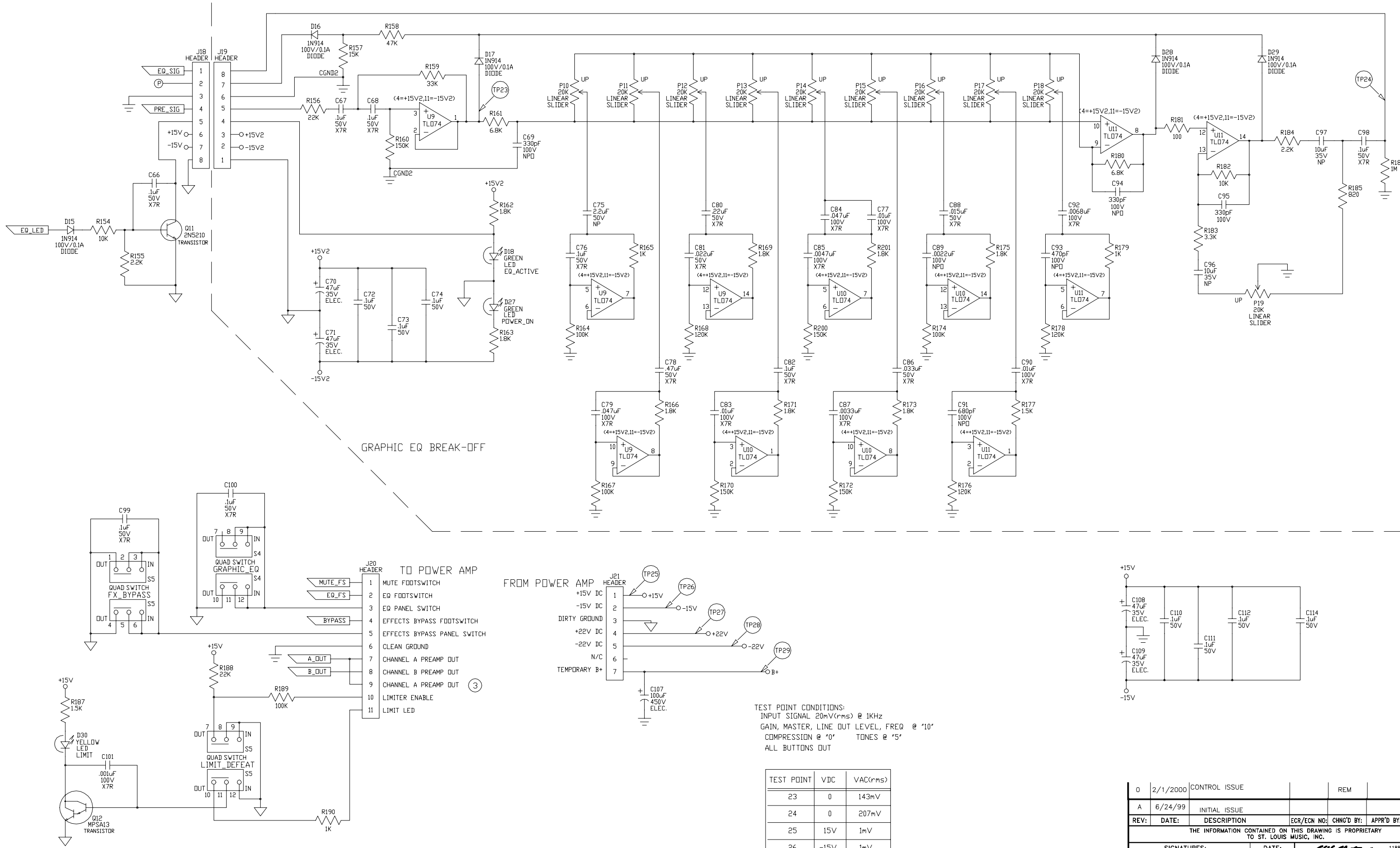
TEST POINT CONDITIONS:
INPUT SIGNAL 20mV(rms) @ 1KHz
GAIN, MASTER, LINE OUT LEVEL, FREQ @ '10'
COMPRESSION @ '0' TONES @ '5'
ALL BUTTONS OUT

TEST POINT	VDC	VAC(rms)	TEST POINT	VDC	VAC(rms)
9	0	305mV	17	0	138mV
10	0	303mV	18	0	130mV
11	0	303mV	19	0	4mV
12	0	315mV	20	0	4mV
13	0	315mV			
14	0	315mV			
15	0	315mV			
16	0	290mV			

LINE OUT BREAK-OFF

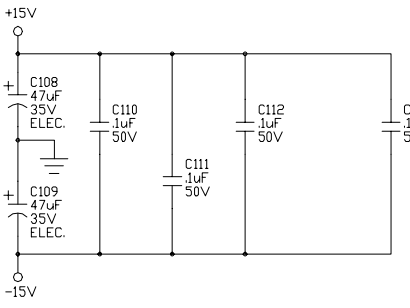


0	2/1/2000	CONTROL ISSUE		REM	
A	6/24/99	INITIAL ISSUE			
REV:	DATE:	DESCRIPTION	ECR/ECN NO:	CHNG'D BY:	APPR'D BY: DATE:
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.					
SIGNATURES:		DATE:		11880 Borman Dr. St. Louis, Missouri 63146	
DRAWN:	REM	6/24/99		SVT4PROa	
CHK'D:				FIRST USED ON:	
RLS'D				SVT4PROa	
TOLERANCES:	DRAWING SIZE:	D		DRAWING TITLE:	
	DRAWING TYPE:	SCHEMO		SCHEMO - BASS PREAMP	
	CLASS CODE:			DRAWING NO.:	
	SCALE:	NONE	SHEET:	2 OF 3	07S539-04

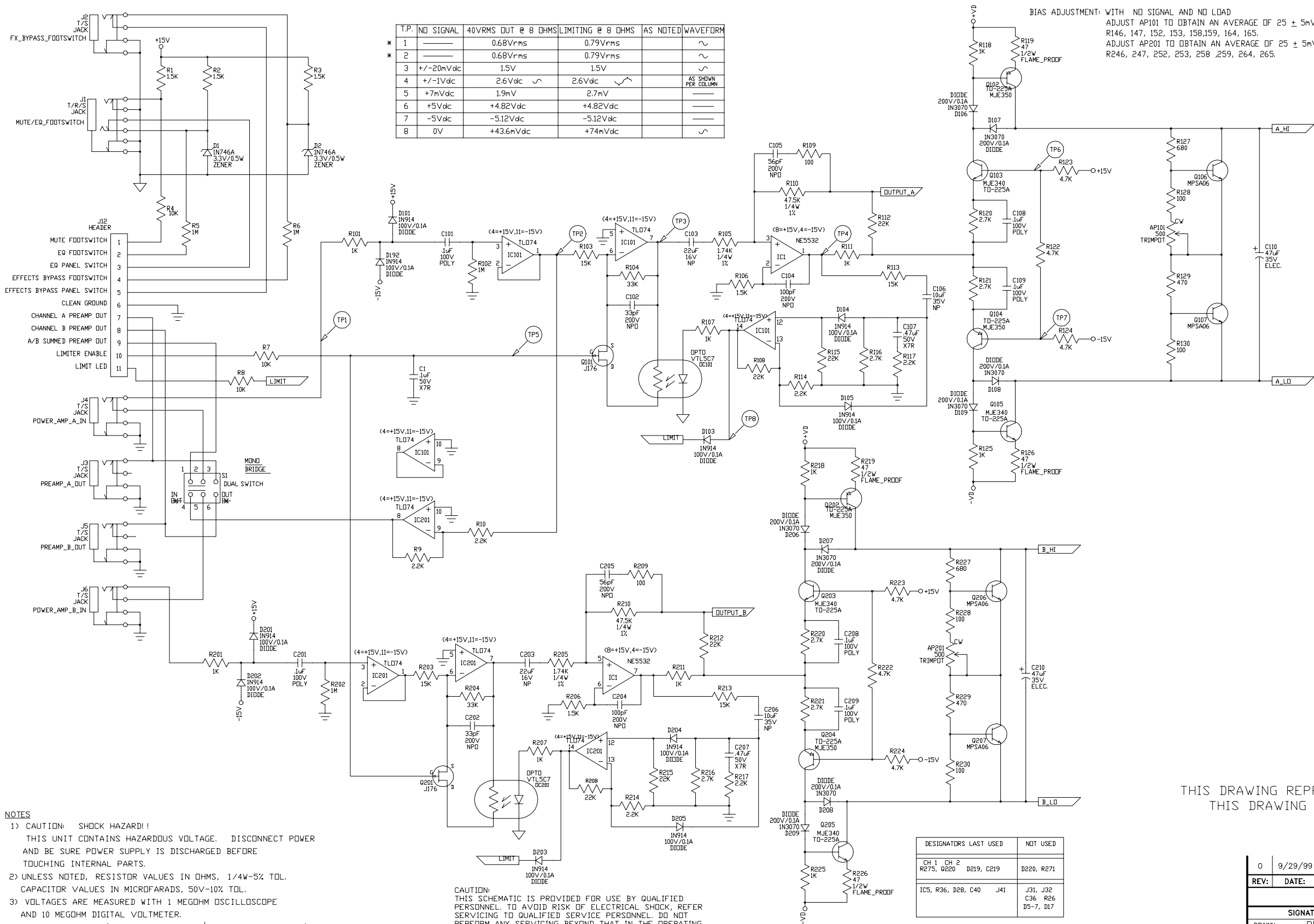


TEST POINT CONDITIONS:
INPUT SIGNAL 20mV(rms) @ 1KHz
GAIN, MASTER, LINE OUT LEVEL, FREQ @ '10'
COMPRESSION @ '0' TONES @ '5'
ALL BUTTONS OUT

TEST POINT	VDC	VAC(rms)
23	0	143mV
24	0	207mV
25	15V	1mV
26	-15V	1mV
27	24.5V	375mV
28	-24.5V	350mV
29	278V	----



0	2/1/2000	CONTROL ISSUE		REM		
A	6/24/99	INITIAL ISSUE				
REV:	DATE:	DESCRIPTION	ECR/ECN NO:	CHNG'D BY:	APPR'D BY:	DATE:
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.						
SIGNATURES:		DATE:		11880 Borman Dr. St. Louis, Missouri 63146		
DRAWN: REM		6/24/99		SVT4PROa		
CHK'D:				FIRST USED ON:		
RLS'D:				DRAWING TITLE: SCHEMO - BASS PREAMP		
TOLERANCES:		DRAWING SIZE: D		DRAWING NO.: 07S539-04		
		DRAWING TYPE: SCHEMO				
		CLASS CODE:				
		SCALE: NONE		SHEET: 3 OF 3		



T.P.	NO SIGNAL	40VRMS OUT @ 8 OHMS	LIMITING @ 8 OHMS	AS NOTED	WAVEFORM
* 1		0.68Vrms	0.79Vrms		~
* 2		0.68Vrms	0.79Vrms		~
3	+/-20mVdc	1.5V	1.5V		~
4	+/-1Vdc	2.6Vdc	2.6Vdc		AS SHOWN PER COLUMN
5	+7mVdc	1.9mV	2.7mV		
6	+5Vdc	+4.82Vdc	+4.82Vdc		
7	-5Vdc	-5.12Vdc	-5.12Vdc		
8	0V	+43.6mVdc	+74mVdc		~

BIAS ADJUSTMENT: WITH NO SIGNAL AND NO LOAD
ADJUST AP101 TO OBTAIN AN AVERAGE OF 25 ± 5mV ACROSS R139, 140
R146, 147, 152, 153, 158,159, 164, 165.
ADJUST AP201 TO OBTAIN AN AVERAGE OF 25 ± 5mV ACROSS R239, 240
R246, 247, 252, 253, 258 ,259, 264, 265.

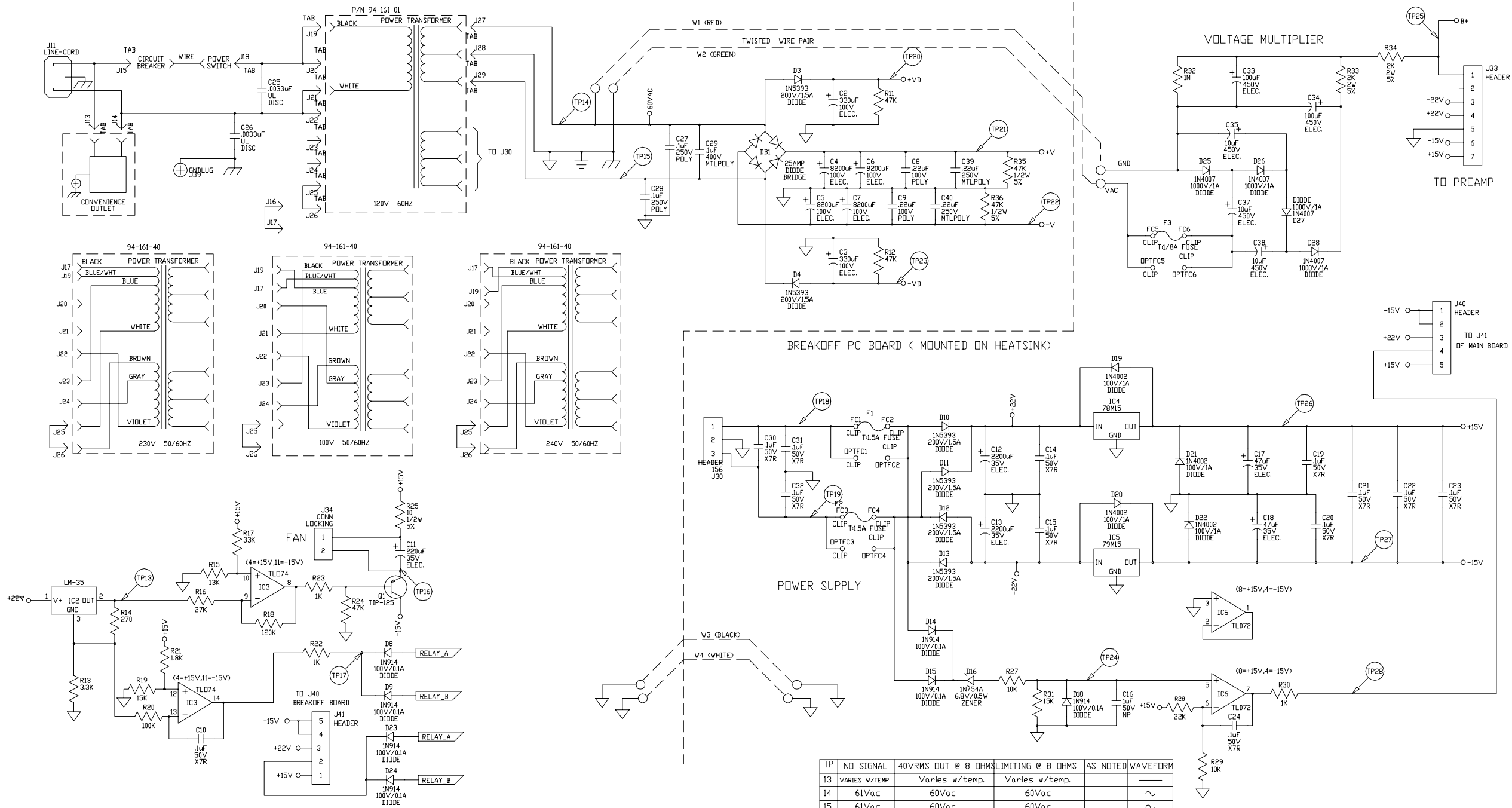
- NOTES
- 1) CAUTION: SHOCK HAZARD!!
THIS UNIT CONTAINS HAZARDOUS VOLTAGE. DISCONNECT POWER AND BE SURE POWER SUPPLY IS DISCHARGED BEFORE TOUCHING INTERNAL PARTS.
 - 2) UNLESS NOTED, RESISTOR VALUES IN OHMS, 1/4W-5% TOL.
CAPACITOR VALUES IN MICROFARADS, 50V-10% TOL.
 - 3) VOLTAGES ARE MEASURED WITH 1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

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

DESIGNATOR'S LAST USED	NOT USED
CH 1, CH 2 R275, Q220	D219, C219 D220, R271
IC5, R36, D28, C40 J41	J31, J32 C36, R26 D5-7, D17

THIS DRAWING REPRESENTS ASSY 07-428-01 & -02
THIS DRAWING SUPERCEDES 07S428-01

0	9/29/99	CONTROL ISSUE		REM	
REV:	DATE:	DESCRIPTION	ECR/ECN NO:	CHNG'D BY:	APPR'D BY:
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.					
SIGNATURES:		DATE:	11880 Borman Dr. St. Louis, Missouri 63146		
DRAWN: REM		9-26-96	SVT-4 PRO		
CHK'D:			FIRST USED ON:		
RLS'D:			PWR AMP SCH		
TOLERANCES:		DRAWING SIZE: D	DRAWING TITLE:		
		DRAWING TYPE:	DRAWING NO:		
		CLASS CODE:	07S428-XX		
		SCALE: NONE	SHEET: 1 OF 3		



- 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) CHASSIS GROUND --- SIGNAL GROUND --- CIRCUIT GROUND ---
 - 5) 94-161-30 DID NOT HAVE EXTRA BLU/WHT PRIMARY XFMR LEAD.

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

TP	NO SIGNAL	40VRMS OUT @ 8 OHMS	LIMITING @ 8 OHMS	AS NOTED	WAVEFORM
13	VARIES W/TEMP	Varies w/temp.	Varies w/temp.		---
14	61Vac	60Vac	60Vac		~
15	61Vac	60Vac	60Vac		~
16	+14Vdc	-4.6Vdc	-4.6Vdc		---
17	+14.4Vdc	+14.4Vdc	+14.4Vdc		---
18	20Vac	19Vac	19Vac		~
19	20Vac	19Vac	19Vac		~
20	+82Vdc	+76.3Vdc	+76.3Vdc		~
21	+83Vdc	+76Vdc	+76Vdc		~
22	-83Vdc	-76Vdc	-76Vdc		~
23	-82Vdc	-76.3Vdc	-76.3Vdc		~
24	+6Vdc	+5.73Vdc	+5.73Vdc		---
25	+288Vdc	+267.7Vdc	+266Vdc		---
26	+15Vdc	+15Vdc	+15Vdc		---
27	-15Vdc	-15Vdc	-15Vdc		---
28	+14.3Vdc	+14.3Vdc	+14.3Vdc		---

9	SEE SHT. 1 FOR REV HISTORY				
REV:	DATE:	DESCRIPTION	ECR/ECN NO:	CHNG'D BY:	APPR'D BY:
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.					
SIGNATURES:		DATE:		11880 Borman Dr. St. Louis, Missouri 63146	
DRAWN: REM		9/29/99			
CHK'D:				FIRST USED ON:	
RLS'D				SVT-4 PRO	
TOLERANCES:		DRAWING SIZE: D		DRAWING TITLE:	
		DRAWING TYPE:		PWR AMP SCH	
		CLASS CODE:		DRAWING NO:	
		SCALE: NONE		07S428-XX	
		SHEET: 3 OF 3			