

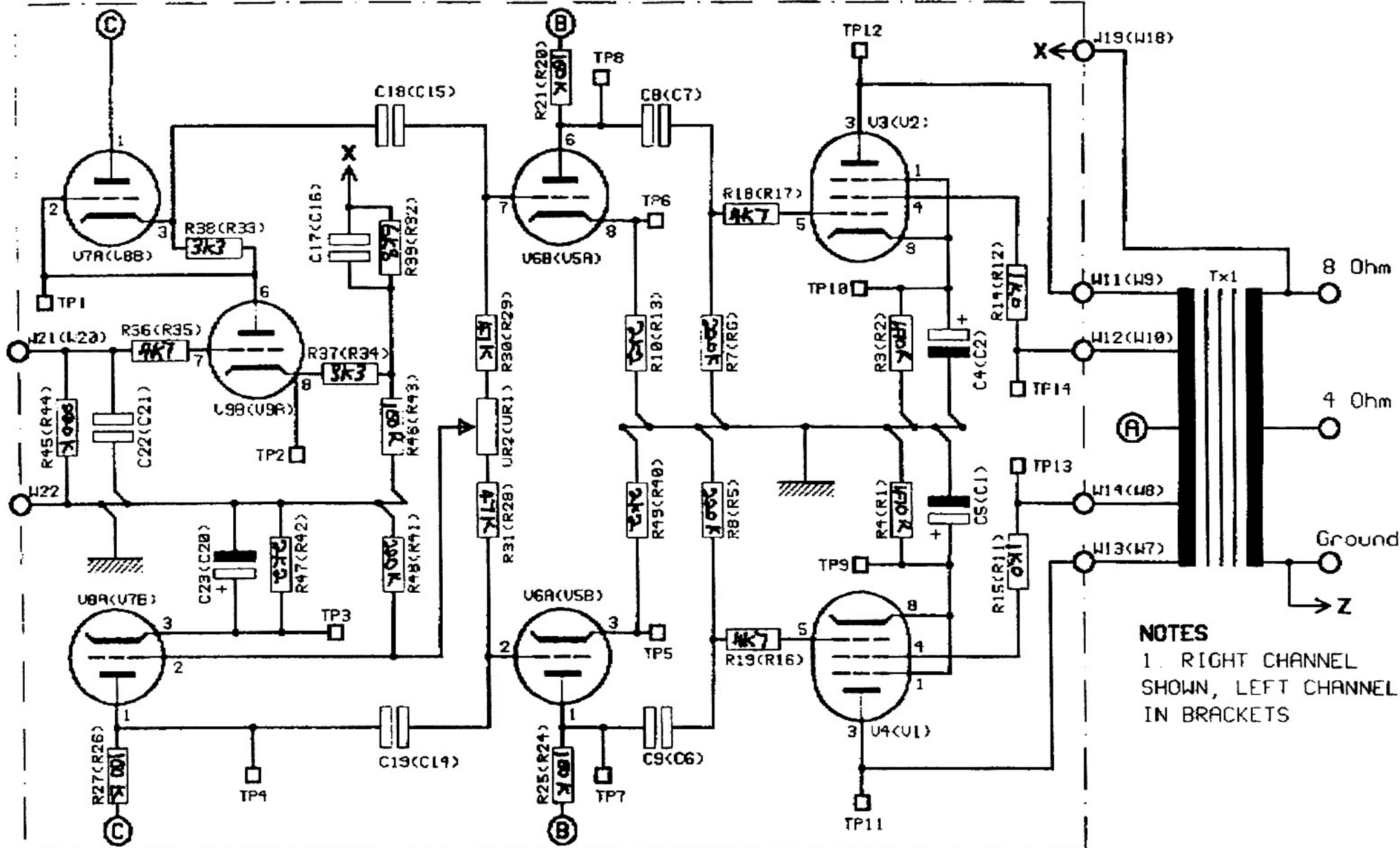
NOTES

- 1. RIGHT CHANNEL SHOWN
LEFT CHANNEL IN BRACKETS

AUDIO COMPONENTS LTD ©

TITLE
S700 Integrated
Circuit Diagram
Input Circuit

DRAWN RS	CHECKED	DATE 4/08/93	PAGE 1 of 3
DRAWING NO		Z711/06/01	



NOTES
 1. RIGHT CHANNEL SHOWN, LEFT CHANNEL IN BRACKETS

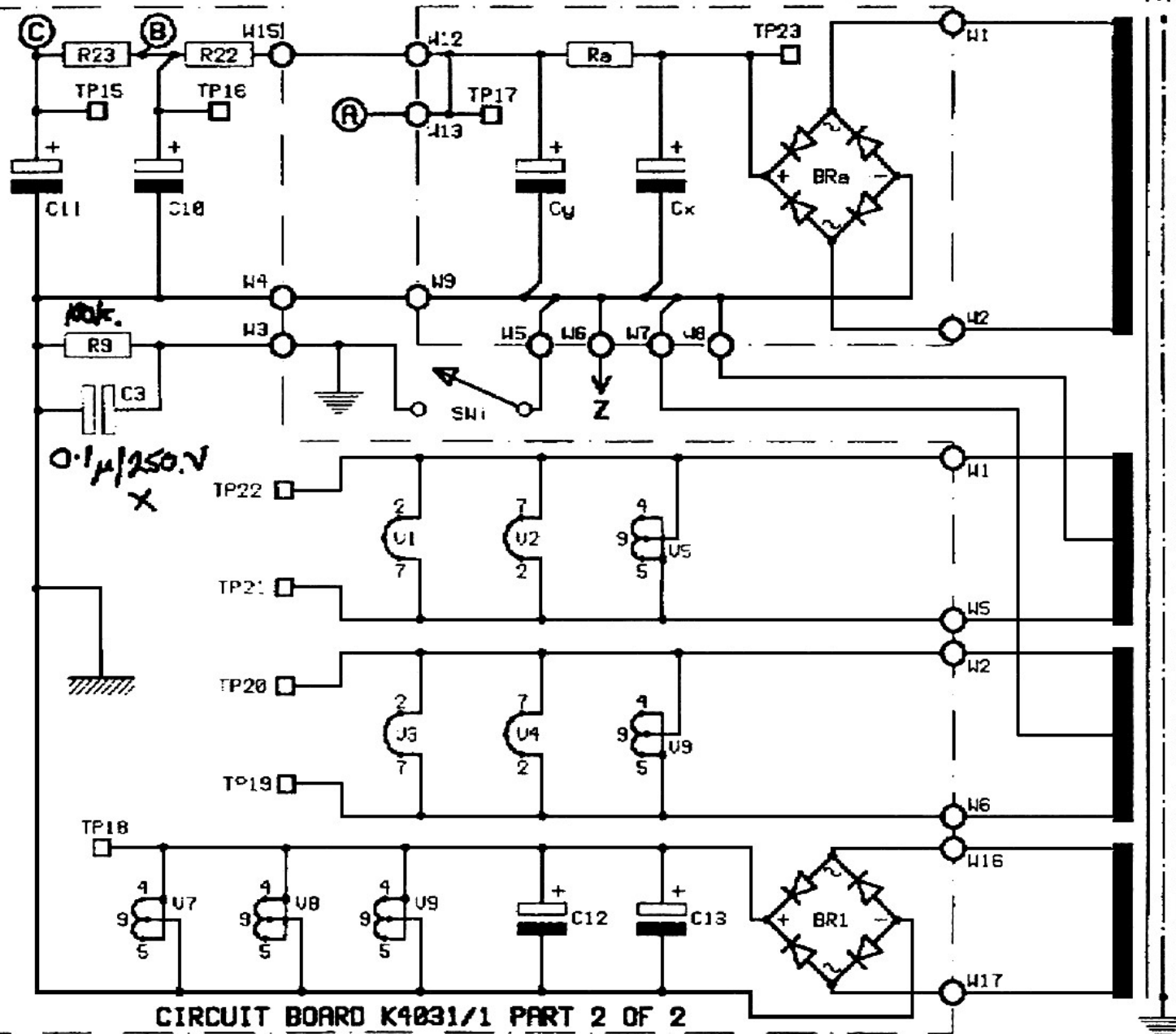
CIRCUIT BOARD K4031/1 PART 1 OF 2

AUDIO COMPONENTS LTD ©

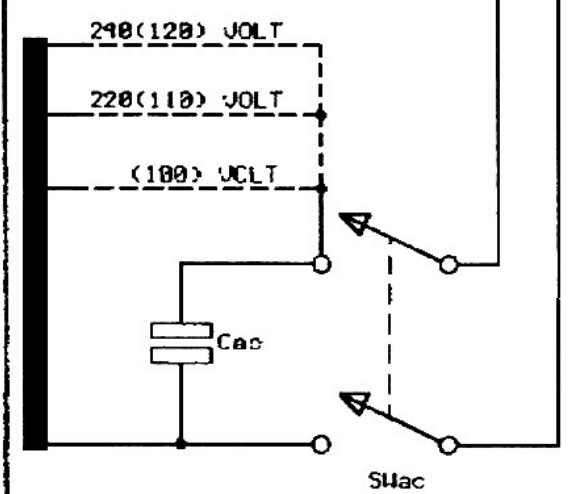
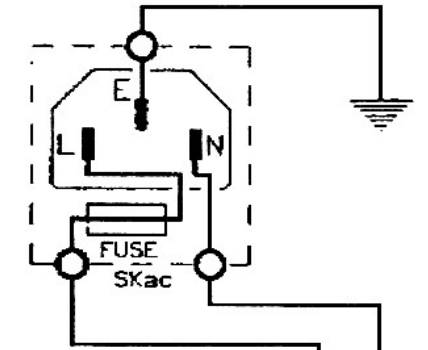
TITLE
 S700 Integrated
 Circuit Diagram
 Main Amplifier

DRAWN RS	CHECKED	DATE 4/08/93	PAGE 2 of 3
DRAWING NO		Z711/07/01	

CIRCUIT BOARD K4026/1



Tx1



NOTES

- 1 220/240 VOLT TRANSFORMER A6000/2
- 2 (100/110/120)VOLT TRANSFORMER A6016/2

CIRCUIT BOARD K4031/1 PART 2 OF 2

AUDIO COMPONENTS LTD ©

TITLE
S700 Integrated
Circuit Diagram
Power Supply

DRAWN RS	CHECKED	DATE 5/08/93	PAGE 3 of 3
DRAWING NO		Z711/08/01	

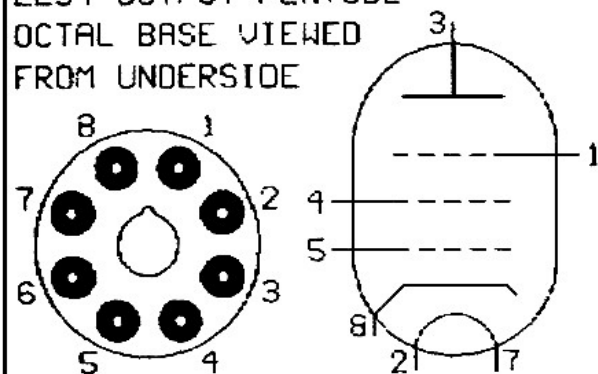
VOLTAGE MEASUREMENTS AUDIO INNOVATIONS SERIES 700 INTEGRATED AMPLIFIER

- 1 Column A is for 220V & B for 100/110/120/240V product
 2 Voltages using 20M Ohm input impedance meter
 3 Voltages should be within +/-15% up to 10 volts, +/-10% between 10 & 250 volts and +/-5% above 250 volts
 4 All voltages are D.C with respect to GROUND unless otherwise stated

TEST POINT	Note 1		DC VOLTAGES FOR 25 VOLT PEAK-PEAK AT 8 OHM TERMINAL 1 kHz SINE WAVE 10 OHM LOAD
	A	B	
TP1	137	144	3.5 VOLTS PEAK - PEAK
TP2	1.3	1.4	
TP3	1.7	1.8	
TP4	203	214	3.5 VOLTS PEAK - PEAK
TP5	4 4	4 6	
TP6	4 4	4 6	
TP7	106	112	35 VOLTS PEAK - PEAK
TP8	106	112	35 VOLTS PEAK - PEAK
TP9	26	27	13 mV RIPPLE AT 100 Hz (No signal)
TP10	26	27	13 mV RIPPLE AT 100 Hz (No signal)
TP11	354	372	350 VOLTS PEAK - PEAK
TP12	354	372	350 VOLTS PEAK - PEAK

TEST POINT	Note 1		DC VOLTAGES FOR 25 VOLT PEAK-PEAK AT 8 OHM TERMINAL 1 kHz SINE WAVE 10 OHM LOAD
	A	B	
TP13	354	373	150 VOLTS PEAK - PEAK
TP14	354	373	150 VOLTS PEAK - PEAK
TP15	280	295	NEGLIGIBLE RIPPLE
TP16	304	320	10 mV RIPPLE AT 100 Hz
TP17	353	372	800 mV RIPPLE AT 100 Hz
TP18	6.0	6.3	
TP19			3.2 VOLTS RMS
TP20			3.2 VOLTS RMS
TP21			3.2 VOLTS RMS
TP22			3.2 VOLTS RMS
TP23	364	383	7 VOLTS RIPPLE AT 100 Hz
W21			500 mV PEAK - PEAK

EL34 OUTPUT PENTODE
 OCTAL BASE VIEWED
 FROM UNDERSIDE

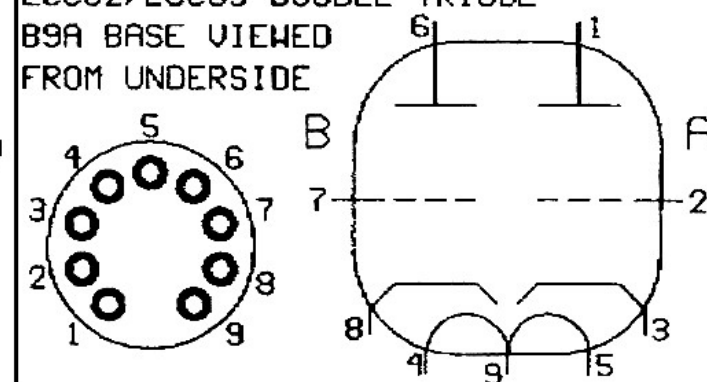


Hum & Noise

Hum and noise measured at the 8 ohm speaker terminal with shorted input and volume control at maximum should be <3mV

DRAWN	CHECKED	DATE	PAGE
RS		6/08/93	1 of 1
DRAWING NO		Z711/09/01	

ECC82/ECC83 DOUBLE TRIODE
 B9A BASE VIEWED
 FROM UNDERSIDE



BILL OF MATERIALS

K40311.PCB

Quantity	Package	Value	Components
1	BR 07	A2010 KBPC804	BR1
4	C A P 15 05	C1006 100u 100V	C1,C2,C4,C5
2	C A P 15 065	C2001 33u 350V	C10,C11
2	C A P 20 075	C1007 4700u 18V	C12,C13
8	C R N 09-011	C4005 0u47 400V	C14,C15,C18,C19,C6,C7,C8,C9
2	C A N 07 015	C3010 270p 630V	C16,C17
2	C A P 07 035	C1005 220u 10V	C20,C23
2	C A N 07 015	C3003 51p 630V	C21,C22
1	C R N 06 035	C4016 0u1 250V X	C3
4	R 17	R4016 470R 7W	R1,R2,R3,R4
6	R 07	R3018 2K2 1W	R10,R13,R40,R42,R47,R49
4	R 07	R3004 1K0 1W	R11,R12,R14,R15
6	R 07	R3005 4K7 1W	R16,R17,R18,R19,R35,R36
7	R 07	R3009 100K 1W	R20,R21,R24,R25,R26,R27,R9
1	R 17	R4003 4K7 7W	R22
1	R 07	R3020 10K 1W	R23
4	R 07	R3007 47K 1W	R28,R29,R30,R31
2	R 07	R3033 6K8 1W	R32,R39
4	R 07	R3025 3K3 1W	R33,R34,R37,R38
8	R 07	R3011 220K 1W	R41,R44,R45,R48,R5,R6,R7,R8
2	R 07	R3001 100R 1W	R43,R46
4	EL34	K2047 V/BASE OCT	V1,V2,V3,V4
5	ECC83	K2018 V/BASE B9A	V5,V6,V7,V8,V9
2	VR MIN PRE	R5009 47K PRESET	VR1,VR2
1	LAYON	MAINS Tx YELLOW	W1
2	LAYON	O/P Tx GREEN	W10,W12
2	LAYON	O/P Tx BLUE	W11,W9
2	LAYON	O/P Tx BLACK	W13,W7
2	LAYON	O/P Tx VIOLET	W14,W8
1	LAYON	HT +ve	W15
2	LAYON	MAINS Tx GREY	W16,W17
1	LAYON	FEEDBACK L	W18
1	LAYON	FEEDBACK R	W19
1	LAYON	MAINS Tx VIOLET	W2
1	LAYON	I/P LEFT HOT	W20
1	LAYON	I/P RIGHT HOT	W21
1	LAYON	I/P COM GND	W22
1	LAYON	EARTH GRN/YELLOW	W3
1	LAYON	GROUND BLACK	W4
1	LAYON	MAINS Tx WHITE	W5
1	LAYON	MAINS Tx GREEN	W6
20	SOLDER		
5	CORNER		
9	BEAD		
1	SOLDERT		
1	BEADB		
1	BEADT		
1	BEADR		
1	LINK 07		L1
22	PIN VIA		P1,P10,P11,P12,P13,P14,P15, P16,P17,P18,P19,P2,P20,P21, P22,P3,P4,P5,P6,P7,P8,P9