

Wharfedale *Pro*

Service Manual:

EVP-X15P

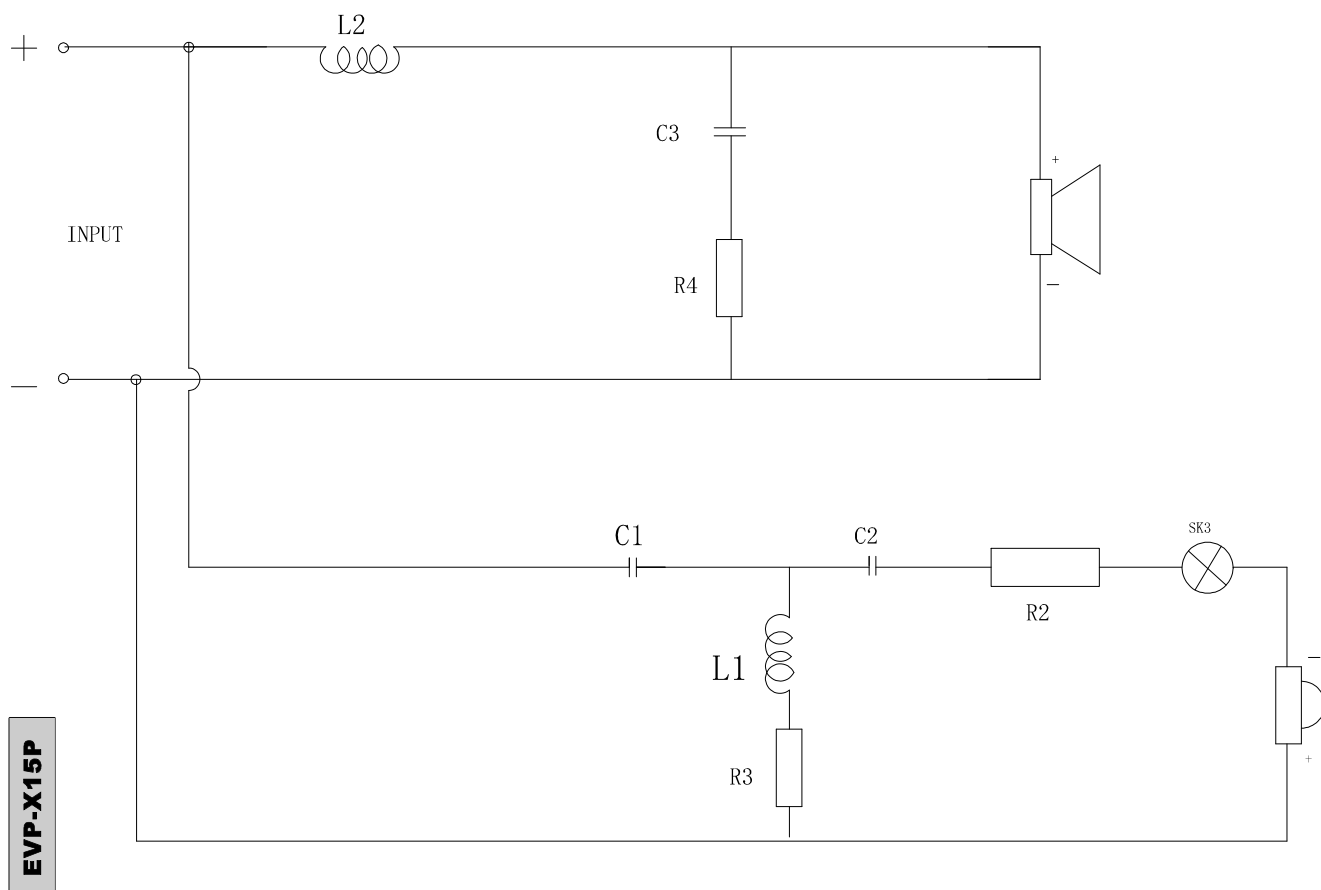
**Professional Speaker
Enclosures**

1.SPECIFICATIONS

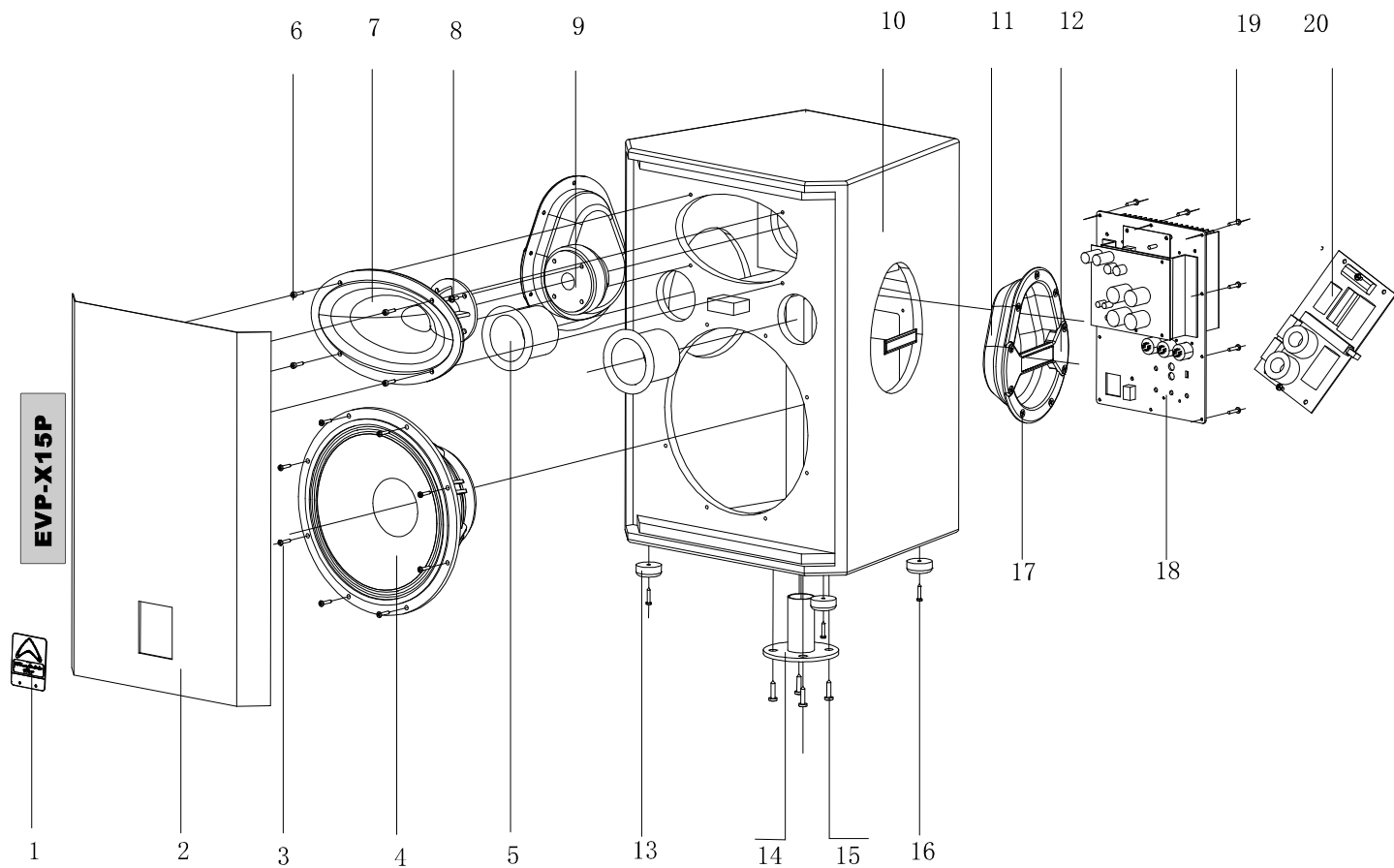
EVP-X15P

System specification	
System Type	15" 2-way
Frequency Response +/- 3dB	45Hz-20kHz
Finish Material	Black carpet
Tripol stand	
Stand Bottom	Yes
Stand Top	--
Input:	
Input A	Switchable balanced mic or line level input
Input B	Line level input
Speaker Level Input	NA
Input Connectors	
Input A	Combined jack and XLR
Input B	Combined jack, XLR and RCA Socket
Input Sensitivity	
Mic	5mV
RCA	0.5V
LINE	0.775V
Input Impedance	
Mic	470 ohms
Line Input A	47k
Line Input B	10k ohms
Line Output	
Type	Balanced Male XLR connector
Line Output High Pass Filter	
Main EQ	HF shelving +/- 12dB @10kHz LF shelving +/- 12dB @ 80Hz
Active Crossover	NA
Infrasonic Filter	NA
Phase switch	NA
POWER SECTION	
Amplifier Power	Continuous:400W Peak:600w
Extention Speaker Output	NA
Protection Type	Dynamic /AGC
Power on indicator	Red LED
System Dynamic AGC activate Indicator	Yellow LED
ENCLOSURE	
Dimention(mm) H x W x D	675x460x450
weight Net (kg)	29.5kg
weight Gross (kg)	33.6kg

2.SCHEMATIC DIAGRAM



C1=4.0uF/250V	R3=3 OHM/10W
C2=8.2uF/250V	R4=4 OHM/30W
C3=18uF/250V	L1=0.2mH
R2=5.0 OHM/25W	L2=0.35mH



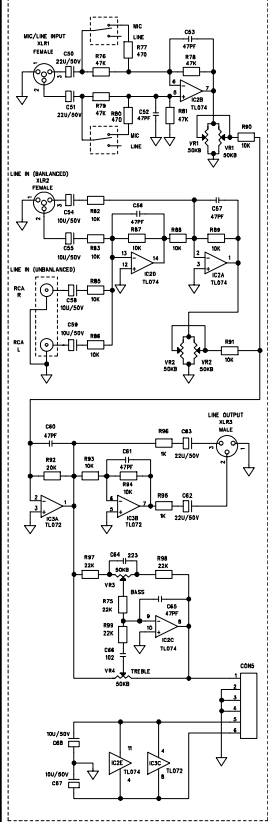
4.ASSEMBLY PARTS LIST

R/N	P/N	PART NAME	DESCRIPTION	QUA
1	217-2935000002	LOGO PLATE		1
2	310-2930000001	STEEL GRILLE		1
3	533-5001350801A	SCREWS	MT(+) 5*35 BZn	8
4	ZD-64600-01	WOOFER		1
5	233-1200750711	PLASTIC TUBE		2
6	539-4001300803A	SCREWS	MC(*) 5*35 BZn	4
7	253-2929000001	PLASTIC HORN		1
8	540-6001120306A	SCREWS	MH6*12NID	4
9	ZD-53301-01	TWEETER		1
10	344-2936000001	CABINET		1
11	328-2643000001	HANDLE1		2
12	328-2921000001	HANDLE2		2
13	226-3800601111	RUBBER OOT		4
14	259-2080000001	SUPPORT HOLDER		1
15	534-6001400801A	SCREWS	MK(+) 6*40 B Zn	4
16	553-4001209061A	SCREWS	4*20 TA H BZn	10
17	554-4001208061A	SCREWS	4*20KA H BZn	18
18	ZC-38400-01	AMPLIFIER		1
19	537-4002300801A	SCREWS	MP(+) 4*30 BZn	10
20	600-2936000010	CROSSOVER ASSEMBLED UNIT		1

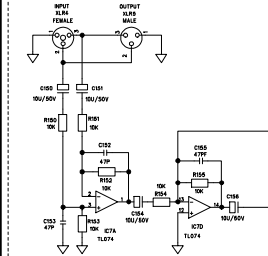
5.ELECTRONIC PARTS LIST

R/N	P/N	PART NAME	DESCRIPTION	QUA
1	053-2935003109	PCB PLATE		1
2	053-2930003109	LED PCB PLATE		1
3	019-0344122000	YELLOW LED		1
4	019-0322122001	GREEN LED		1
5	079-0020000000	LAMP(SK3)		1
6	014-8250411002	CAPACITOR	8.2uF/250V	1
7	014-4050411002	CAPACITOR	4.0uF/250V	1
8	014-1860411002	CAPACITOR	18uF/250V	2
9	001-5009519100	RESISTOR	5 OHM/25E	1
10	001-4000513050	RESISTOR	4 OHM/30W	1
11	001-3009511100	RESISTOR	3 OHM/10W	1
12	080-0300200600	INDUCTANCE	0.2mH	1
13	080-0600351000	INDUCTANCE	0.35mH	1

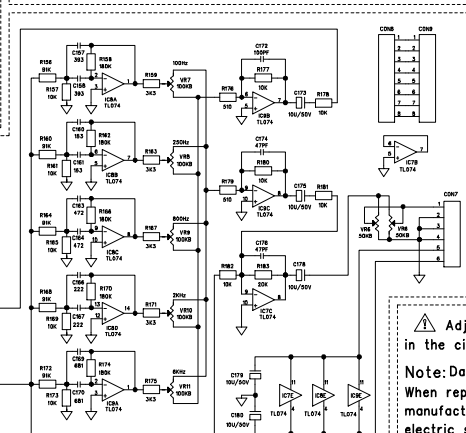
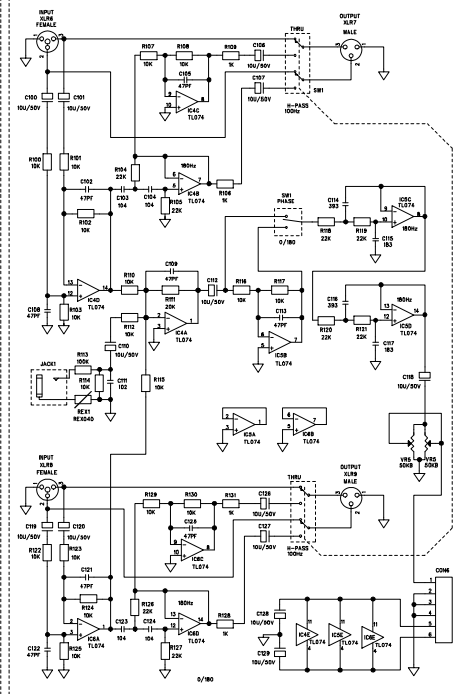
EVP-X.PRE



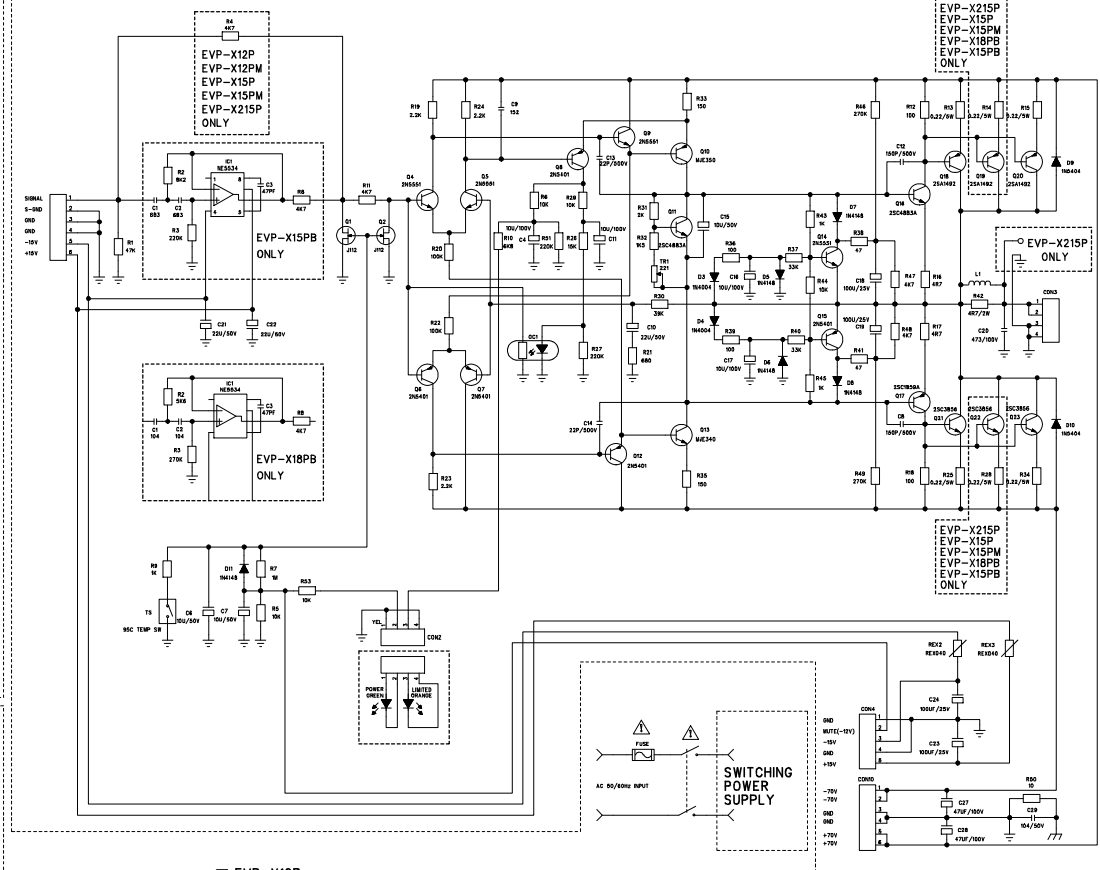
EVP-X.PM PRE



EVP-X.PB PRE



EVP-X AMPLIFIER



EVP-X SERIES:

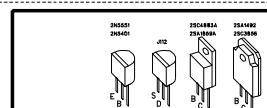
EVP-X12P
EVP-X12PM
EVP-X15P
EVP-X15PM
EVP-X215P
EVP-X15PB
EVP-X18PB

⚠ Adjacent to the relevant component denoting specific component shall be replaced only by the component specified in the circuit for safety reasons.

Note: Damage requiring service, unplug this product from the wall outlet and refer servicing to qualified service personnel. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards. Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

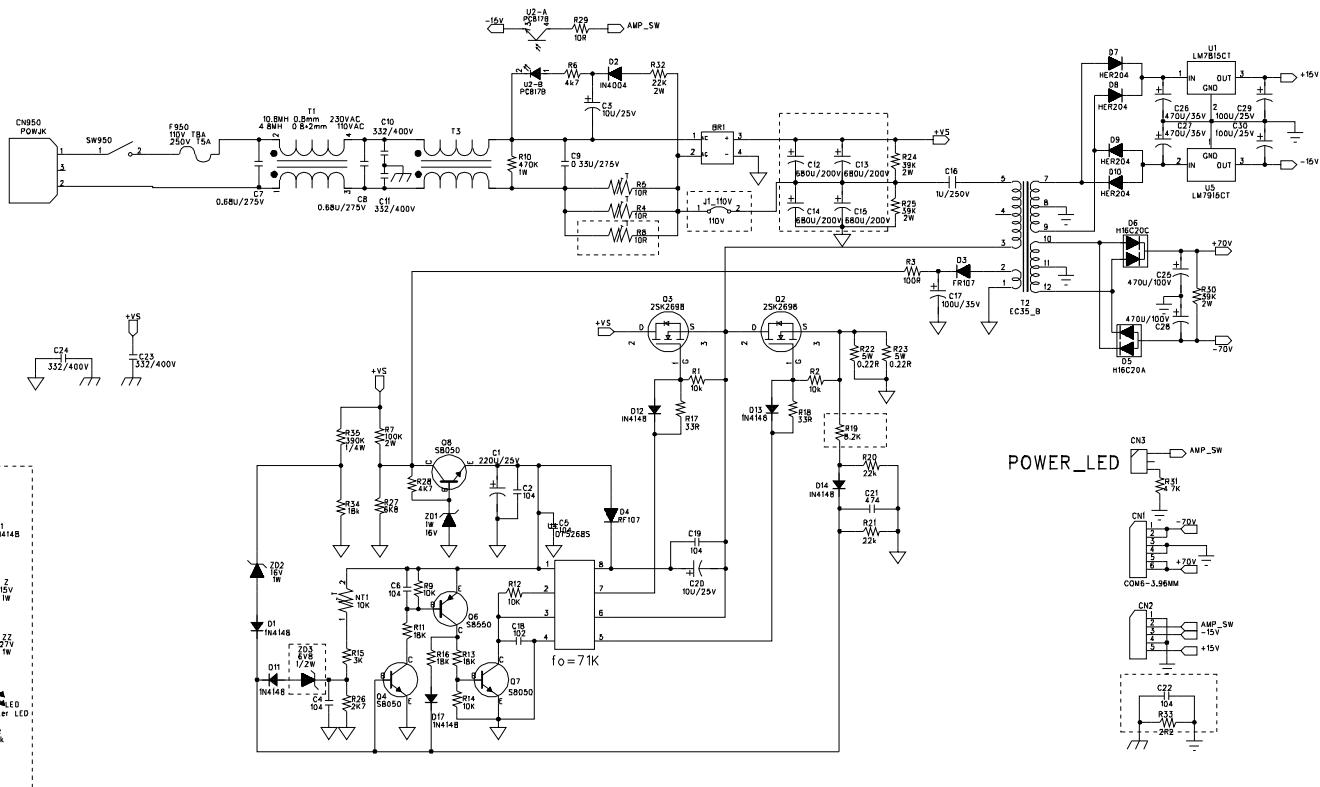
FUSE CONFIG TABLE			
X15P, X15PM	100-120V	T8AL125V	
X215P, X15PB	220-240V	T4AL250V	
X18PB	100-120V	T6.3AL125V	
X12P, X12PM	220-240V	T3.15AL250V	

EVP-X SWITCHING POWER SUPPLY



SANECORE MUSIC INSTR CO., LTD			
TITLE: EVP-X SERIES SCHEMATIC	MODEL: C-384	SCH No: C-384A04	
DWG: Y.Q.J	DATE: 2005.5.23		
CHK:	DATE:		
APPR:	DATE:		

Manufactured in PRC



7.ASSEMBLY PARTS LIST (AMP)

R/N	P/N	PART NAME	DESCRIPTION	QUA
1	300-1384020000	AL PANEL		1
2	306-1384020000	RADIATOR		1
3	307-2300500081	COPPER POST		5
4	307-2300500241	COPPER POST		2
5	310-1385130000	GRILLE		1
6	527-3012100811A	SCREWS	SP(+) ³ *10 DC H BZn	6
7	535-3031080801A	SCREWS	MPW(+) ³ *8 BZn	7
8	537-3001080801A	SCREWS	MP(+) ³ *8 BZn	4
9	537-3001140801A	SCREWS	MP(+) ³ *14 BZn	10
10	537-4001120801A	SCREWS	MP(+) ⁴ *12 BZN	8

8.ELECTRONIC PARTS LIST (AMP)

R/N	P/N	PART NAME	DESCRIPTION	QUA
	088-1384001300	SEMAPHORE PCB		1
1	053-1384001113	PCB PLATE		1
2	001-4703203010	RESISTOR	47K 1/8W F	4
3	001-4701203010	RESISTOR	470 ohm 1/8W F	2
4	001-1003203010	RESISTOR	10K 1/8W F	11
5	001-2003203010	RESISTOR	20K 1/8W F	1
6	001-1002203010	RESISTOR	1K 1/8W F	2
7	001-2203203010	RESISTOR	22K 1/8W F	4
8	006-2201051163	CAPACITOR	SM 22uF 50V 10%	4
9	006-1001051163	CAPACITOR	SM10uF 50V 10%	6
10	008-4700005004	CAPACITOR	47P-50V-J	7
11	014-1020211028	CAPACITOR	MKS2 1NF 63V 10%	1
12	014-2230211028	CAPACITOR	22nF 63V 10% PH=7.5mm	1
13	017-0650000000	IC	TL072(CN)	1
14	017-1530000000	IC	TL074CN	1
15	020-5052119425	POTENTIOMETERS	RD 16K124A068-50KCBX2SII	4
16	051-0500000000	JACK	RCA JK0200560N	1
17	048-3000000000	JACK	NYS143 J3Y1 3pin PCB	1
18	049-2510222016	JACK	CXLF-07	2
19	056-4106221100	JACK	JS-1001-6(2802-06GS)	1
20	089-0500000012	REMOVE SWITCH	SS-22F20-G12	2
	088-1384001000	AMP PCB		1
1	053-1384001110	PCB PLATE		1
2	001-1003205010	RESISTOR	10K 1/4W F	5
3	001-2704205010	RESISTOR	270K 1/4WF	2
4	001-4702205010	RESISTOR	4.7K 1/4W F	4
5	001-2204205010	RESISTOR	220K 1/4W F	2
6	001-2202205010	RESISTOR	2.2K 1/4W F	3
7	001-3903205010	RESISTOR	39K 1/4W F	1
8	001-1005205010	RESISTOR	1M 1/4W F	1
9	001-1004205010	RESISTOR	100K 1/4W F	2
10	001-1501205010	RESISTOR	150 ohm 1/4W F	2
11	001-6801205010	RESISTOR	680 ohm 1/4W F	1
12	001-1002205010	RESISTOR	1K 1/4W F	3
13	001-2002205010	RESISTOR	2K 1/4W F	1
14	001-1802205010	RESISTOR	1.8K 1/4W F	1
15	001-1001205010	RESISTOR	100 ohm 1/4W F	4
16	001-3303205010	RESISTOR	33K 1/4W F	2
17	001-4700205010	RESISTOR	47 ohm 1/4W F	2
18	001-4709205010	RESISTOR	4.7 ohm 1/4W F	2
19	001-1000205100	RESISTOR	10 OHM/1/4W	1

8.ELECTRONIC PARTS LIST (AMP)

20	001-0229510050	RESISTOR	0.22 ohm 5W J	6
21	001-0470308050	RESISTOR	4.7 ohm 2W J	1
22	005-2001306101	RESISTOR	PA0631-HA1-B201	1
23	006-1004061194	CAPACITOR	10uF 100V	6
24	006-1001051163	CAPACITOR	SM10uF 50V 10%	1
25	006-2201051163	CAPACITOR	SM 22uF 50V 10%	1
26	006-1011061143	CAPACITOR	SM 100uF 25V 10%	4
27	006-4704101392	CAPACITOR	47 UF/100V 10*12.5	2
28	013-1040210801	CAPACITOR	104/63V	1
29	013-1520210501	CAPACITOR	152 63V 5%	1
30	008-2201050004	CAPACITOR	22P/500V 10%	2
31	008-1512050004	CAPACITOR	151/500V 10%	2
32	014-4730300001	CAPACITOR	47N-100V-J CL11	1
33	067-1104148000	DIODE	IN4148	5
34	067-2204004000	DIODE	IN4004	2
35	067-2205404000	DIODE	IN5404	2
36	019-0315132000	LED		1
37	018-2905401115	AUDION	2N5401 TO-92	5
38	018-2905551115	AUDION	2N5551 TO-92	4
39	018-1900350113	AUDION	MJE350 TO-126	1
40	018-1900340113	AUDION	MJE340 TO-126	1
41	018-0101492116	POWER TUBE	2SA1492 TO-3P	3
42	018-0101859113	AUDION	2SA1859A	1
43	018-0303856116	POWER TUBE	2SC3856 TO-3P	3
44	018-0304883113	AUDION	2SC4883A	2
45	018-2800112115	FIELD EFFECT TRANSISTOR	J112 TO-92	2
46	026-2794103170	INDUCTANCE	2.7UH	1
47	004-6609000000	RESISTOR	3-11K	1
48	079-0401000000	PROTECTOR	PTC RXE040	2
49	066-0095010000	SWITCH	TO-2P	1
50	056-4104221100	JACK	DJ2802-4P	1
51	056-6104224400	JACK	VH3.96 4PIN	1
52	056-4105220000	JACK	JS-1135-05	1
53	056-0106003300	JACK	6PIN 3.96PH	1
54	277-0100000000	TRANSISTOR BASE		3
55	001-4703205010	RESISTOR	47K 1/4W F	1
56	001-6802205010	RESISTOR	6.8K 1/4W F	1
57	001-1503205010	RESISTOR	15K 1/4W F	1
	088-9384000400	POWER PCB		1
1	053-9384001604	PCB PLATE		1
2	001-1000203010	RESISTOR	10 ohm 1/8W F	1
3	001-3300103050	RESISTOR	33 ohm 1/8W J	2

8.ELECTRONIC PARTS LIST (AMP)

4	001-1001203010	RESISTOR	100 ohm 1/8W F	1
5	001-4702203010	RESISTOR	4.7K 1/8W F	3
6	001-6802203010	RESISTOR	6.8K 1/8W F	1
7	001-1003203010	RESISTOR	10K 1/8W F	5
8	001-3002203010	RESISTOR	3K 1/8W F	1
9	001-2702203010	RESISTOR	2.7K 1/8W F	1
10	001-1803203010	RESISTOR	18K 1/8W F	3
11	001-3303203010	RESISTOR	33K 1/8W F	1
12	001-2203203010	RESISTOR	22K 1/8W F	2
13	001-1005203010	RESISTOR	1M 1/8W F	1
14	001-4704205010	RESISTOR	470K 1/4W F	1
15	001-0220106050	RESISTOR	2.2 ohm 1/2W J	1
16	001-4703107050	RESISTOR	470K 1W 5%	1
17	001-2203208010	RESISTOR	22K 2W 1%	1
18	001-0393108050	RESISTOR	39K 2W 5%	3
19	001-1004208050	RESISTOR	100K2W 5%	1
20	001-0229810050	RESISTOR	BPR56F 0.22 5%	2
21	004-3307000000	RESISTOR	10D-20	3
22	004-3312000000	RESISTOR	NTC 10K	1
23	006-1001051163	CAPACITOR	SM10uF 50V 10%	2
24	006-1011061143	CAPACITOR	SM 100uF 25V 10%	2
25	006-1014081463	CAPACITOR	SM 100uF 50V 20%	1
26	006-2214081443	CAPACITOR	220uF 25V	1
27	006-4711102053	CAPACITOR	470uF 35V 10% 10*20mm	2
28	006-4714162593	CAPACITOR	470UF/100V 16*25	2
29	006-6814253603	CAPACITOR	680UF 200V 25*3	4
30	014-1020100002	CAPACITOR	AMZ 0.001UF 50V 5%	2
31	008-1004005017	CAPACITOR	104-Y5P-50V-Z	4
32	008-3302040006	CAPACITOR	332/400V 20%	4
33	009-2240507110	CAPACITOR	224 50V 20%	1
34	014-1050411006	CAPACITOR	1UF/250V 10%	2
35	013-3340722502	CAPACITOR	0.33uF 275V 10%	1
36	017-0190000000	IC	NJM7815FA	1
37	017-0200000000	IC	NJM7915FA	1
38	017-4660000000	IC	DT5268S Dip 8P	1
39	018-3408550115	AUDION	SS8550C TO-92	1
40	018-3408050115	AUDION	SS8050 TO-92	3
41	018-0502698121	FIELD EFFECT TRANSISTOR	2SK2698 TO-247	2
42	034-1119992508	BRIDGE RECTIFIERS	RBV2510	1
43	056-0106003300	JACK	6PIN 3.96PH	1
44	056-4103221100	JACK	DJ2802-3P	1
45	056-4105221100	JACK	DJ2802-05	1

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46	067-1104148000	DIODE	IN4148	6
47	067-2200107000	DIODE	HER107	3
48	067-2200207000	DIODE	HER204	4
49	067-2201620000	DIODE	H16C20C	1
50	067-2201620001	DIODE	H16C20A	1
52	067-3305246000	ZENER	16V 1/2W IN5246	2
53	067-3305235000	ZENER	6.8V 1/2W IN5235	1
54	080-0210012016	INDUCTANCE	13.6MH 0.8MM 230V AC	2
55	022-1014101245	TRANSFORMER		1
56	085-0052800200	PLASTIC CAP		2
58	520-3006400000	PLASTIC WASHER	TW-4	4
61	537-3001120801A	SCREWS	MP(+)*3*12 BZn D	6
62	537-3001080801A	SCREWS	MP(+)*3*8 BZn D	6
63	307-2300500081	COPPER POST	M3	5
64	517-3000000300A	WASHER	M3 Zn	10
65	513-3006080300A	WASHER		8
66	500-3050240800A	NUT	M3 BZn	6
67	306-1385080000	RADIATOR		1
68	306-1386200000	RADIATOR		1
72	042-1003005000	POWER SWITCH		1
73	019-0311122001	LED		1