SERVICE MANUAL

NAD

SERVICE SAFETY PRECAUTIONS (UL)

1. Use exact replacement parts for critical locations marked "⚠"
2. Return lead dress to original position and re-install protective covers.
3. Before returning to customer, test for shock hazard; use either mothod A or B:

A. Leakage test "cold":
1. Unplug the AC cord; turn power switch ON.
2. Connect one lead of High Voltage Insulation Tester to both prongs of the AC plug.
3. Touch other lead to all exposed metal parts.
4. Impedance measurement must be 0.3-5.0 Megohms.

B. Leakage test, "live" :
1. Plug unit directly into the AC outlet: do not use isolation transformer.
2. Connect one lead of the Leakage Current Tester to earth ground.
3. Touch other lead to all exposed metal parts.
4. Leakage measurement must be less than 0.5 milliamps.

114 STEREO AMPLIFIER

114
STEREO AMPLIFIER

CONTENTS

SPECIFICATIONS

Measured in accordance with EIA Standard RS-490 (IHF T-202).

PHONO INPUT

Input impedance (R and C)	MM/ MC	47 kohm + 200pF
Input sensitivity ref. 0.5V		1.5mV
Input overload at 20Hz/1kHz/20kHz		
	MM	20mV/200mV/1700mV
	MC	1.3mV/13mV/110mV
Signal/Noise ratio	MM	78dB ref. 0.5mV
(A-weighted with cartridge connected)	MC	76dB ref. 0.5mV
THD (20Hz-20kHz) and IM dist		<0.02%
RIAA response accuracy	MM/ MC	+/-0.5dB 20Hz-20kHz
		+/-0.5dB 50Hz-20kHz
		-0.5dB at 20Hz

LINE LEVEL INPUTS (CD, Video, Tuner, Tape1, Tape2, Aux)

Input impedance (R and C)	20 kohm + 450pF
Input sensitivity ref. 0.5V	80mV
Signal/Noise ratio, A-weighted ref. 0.5V	98dB
Frequency response, 20Hz-20kHz	+/-0.2dB
Voltage gain	16dB
THD +SMPTE+IHF I.M	<0.02%
Infrasonic filter	-3dB at 10Hz

LINE LEVEL OUTPUTS

Output impedance	Pre out	220 ohm
	Tape	Source Z +2 kohm
	Headphones	120 ohm
Maximum output level	Pre out	>12V
	Tape	>10V
	Phones	>8V into 600 ohm
		>250mV into 8 ohm

CONTROLS

Treble	+/-7dB at 10kHz
Bass	+/-10dB at 50Hz

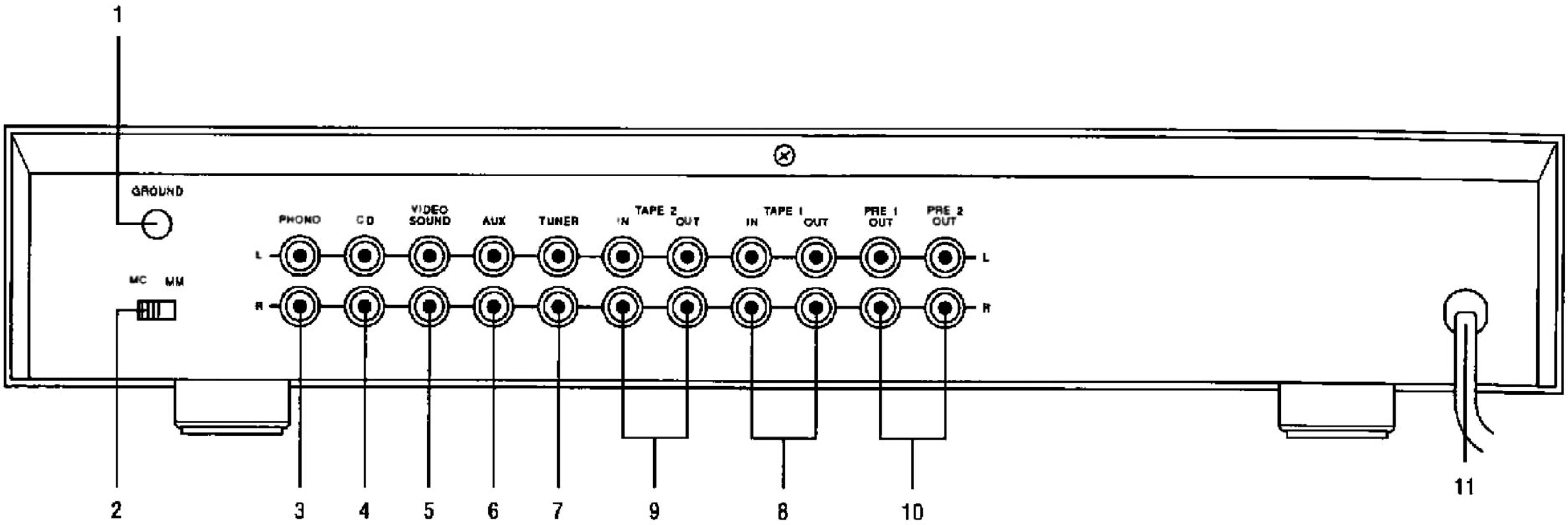
PHYSICAL SPECIFICATIONS

Dimensions in mm (Width x Height x Depth)	435 x85 x280
Net Weight	3.7Kg/8.2lbs
Shipping Weight	4.4Kg/9.7lbs

REAR PANEL /FRONT PANEL VIEW

REAR PANEL

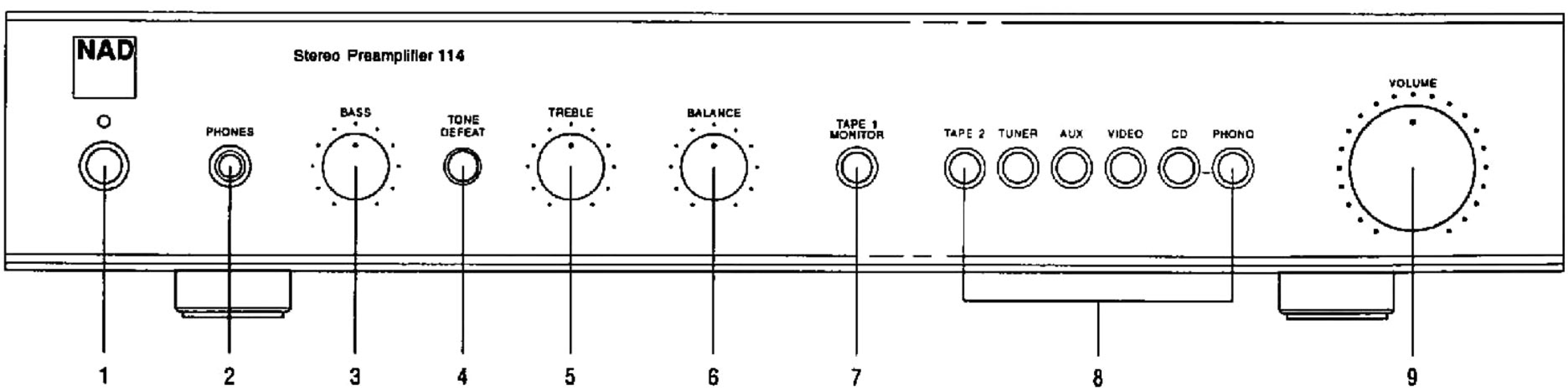
WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



1. PHONO GROUND
2. MM/MC SELECTOR
3. PHONO INPUT
4. CD INPUT
5. VIDEO SOUND INPUT
6. AUXILIARY INPUT
7. TUNER INPUT
8. TAPE 1 INPUT/OUTPUT
9. TAPE 2 INPUT/OUTPUT
10. PRE OUT 1& 2
11. AC LINE CORD

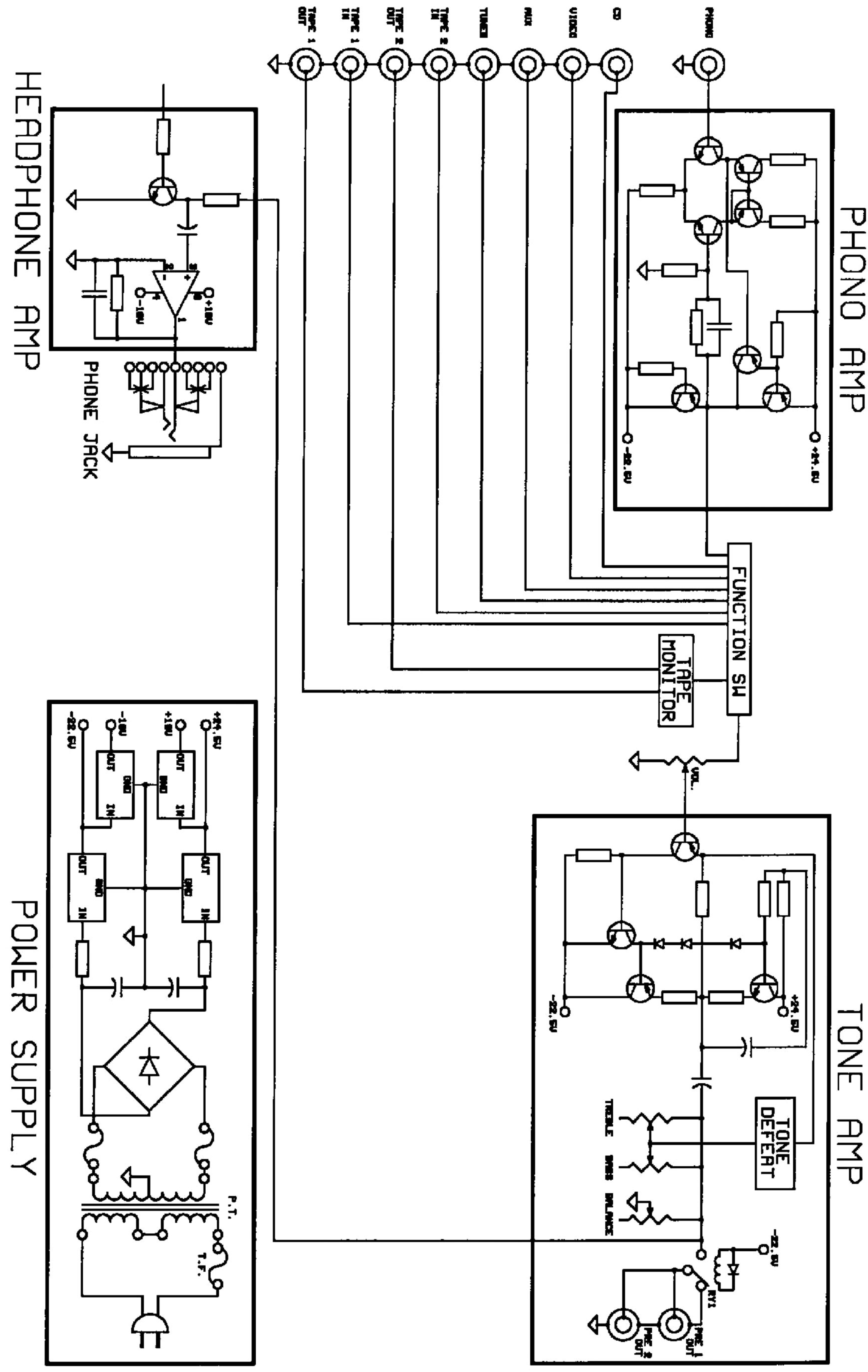
The lightning flash with arrowhead, within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.	The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance

FRONT PANEL

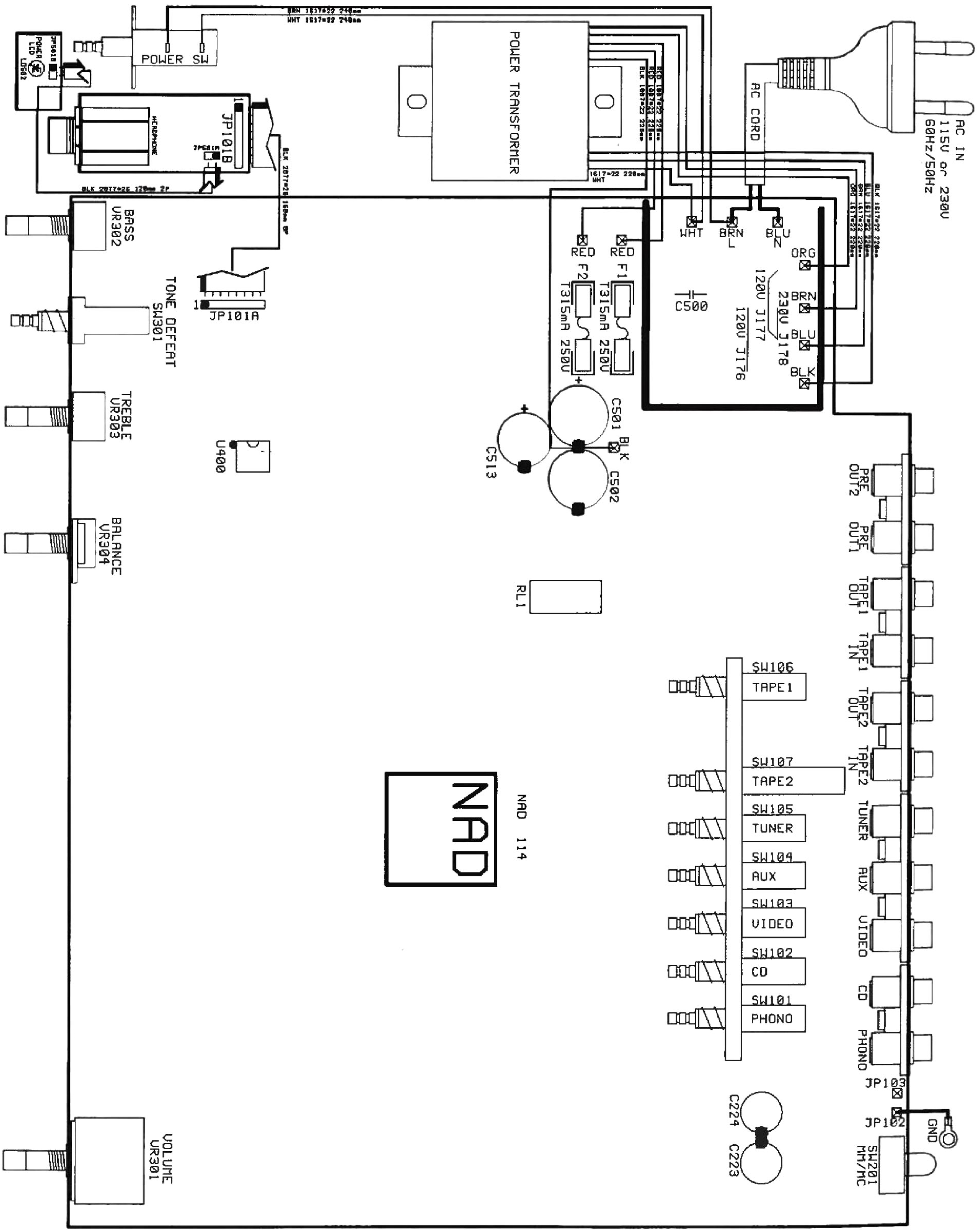


1. POWER
2. PHONES
3. BASS
4. TONE DEFEAT
5. TREBLE
6. BALANCE
7. TAPE 1 MONITOR
8. INPUT SELECTOR(TAPE2,TUNER,AUX, VIDEO,CD,PHONO)
9. VOLUME

BLOCK DIAGRAM



WIRING DIAGRAM



DISASSEMBLY INSTRUCTIONS

TOP COVER REMOVAL

1. Remove parts in order of disassembly as numbered.
   a.① - ④ Machine screws M 4.0x6.0 from the side panels.
   b.⑤ Tapping screw T 3.0x6.0 from the back side.
   (See Fig. 1.)

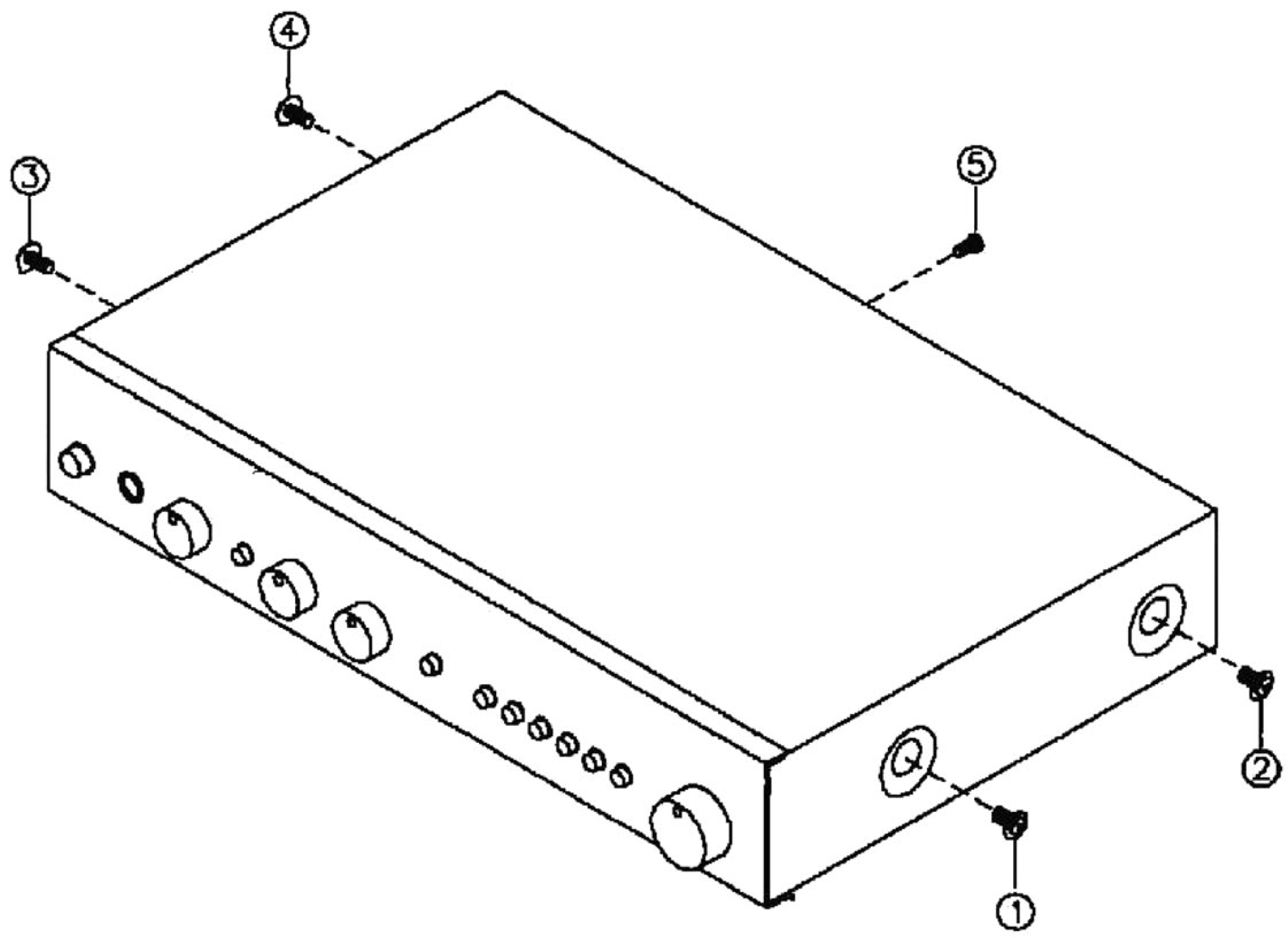


Fig. 1.

2. Pull both sides of TOP COVER outward and then remove in the direction as indicated by pointer ⑥. (See Fig. 2.)

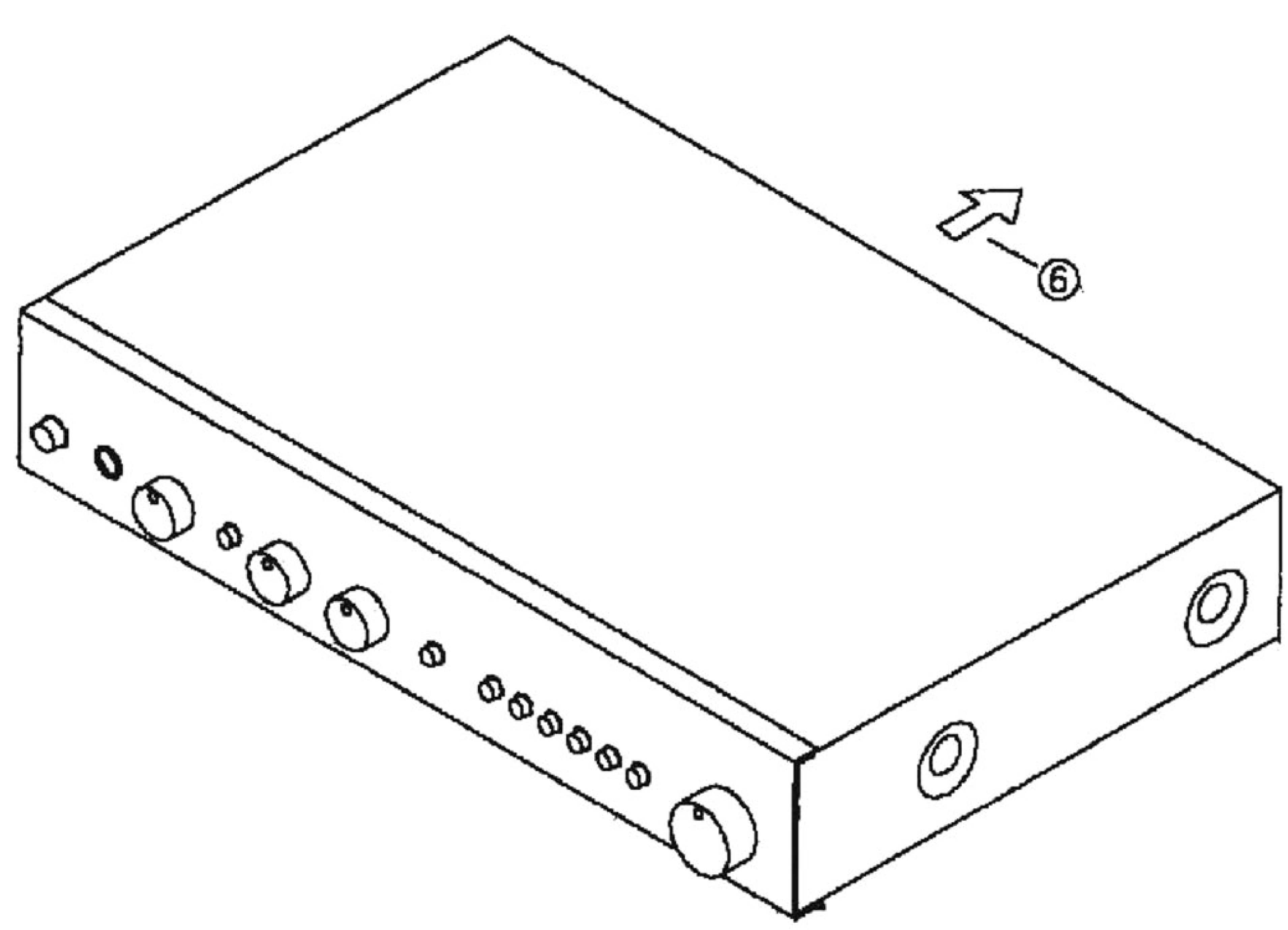
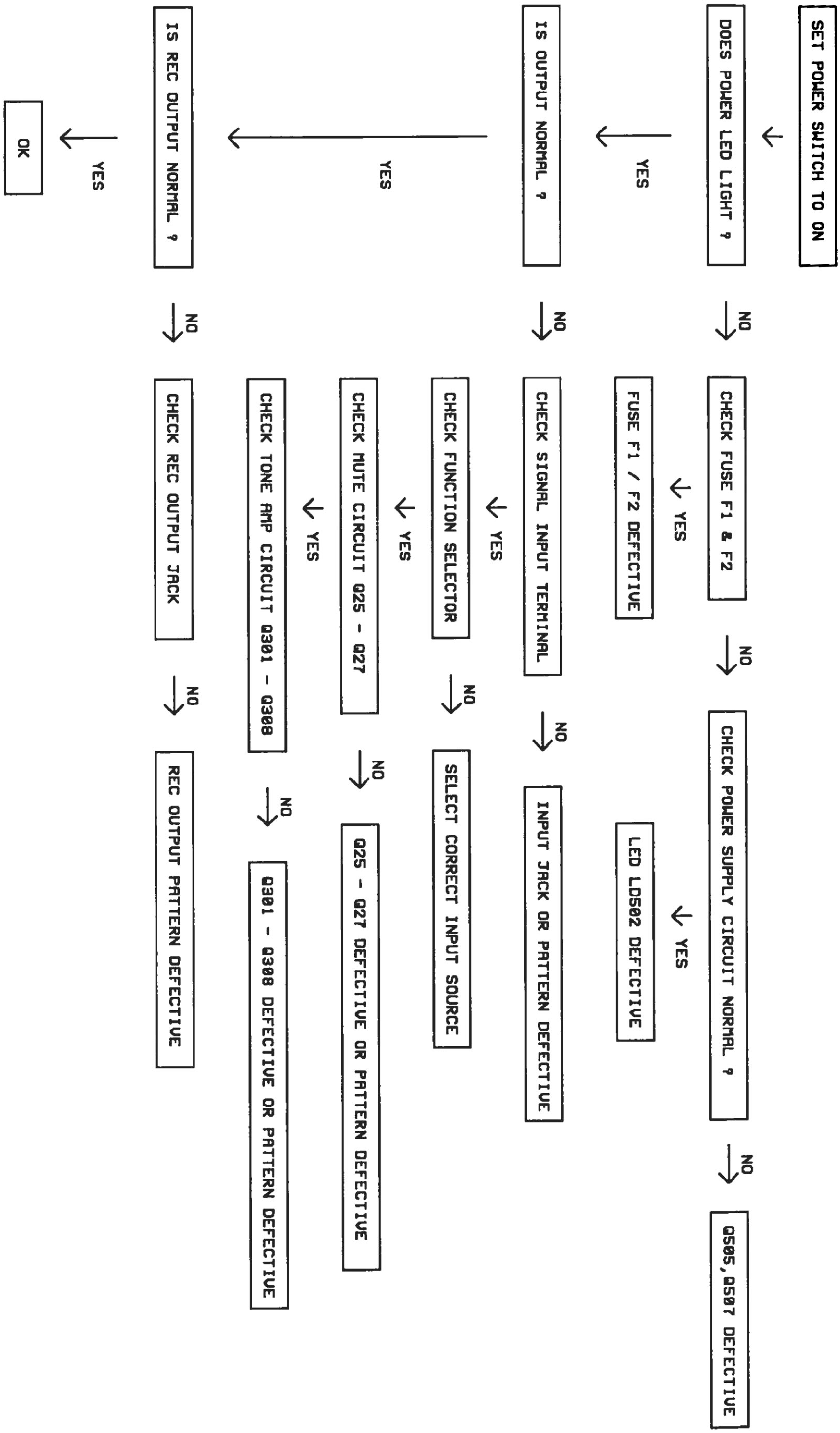
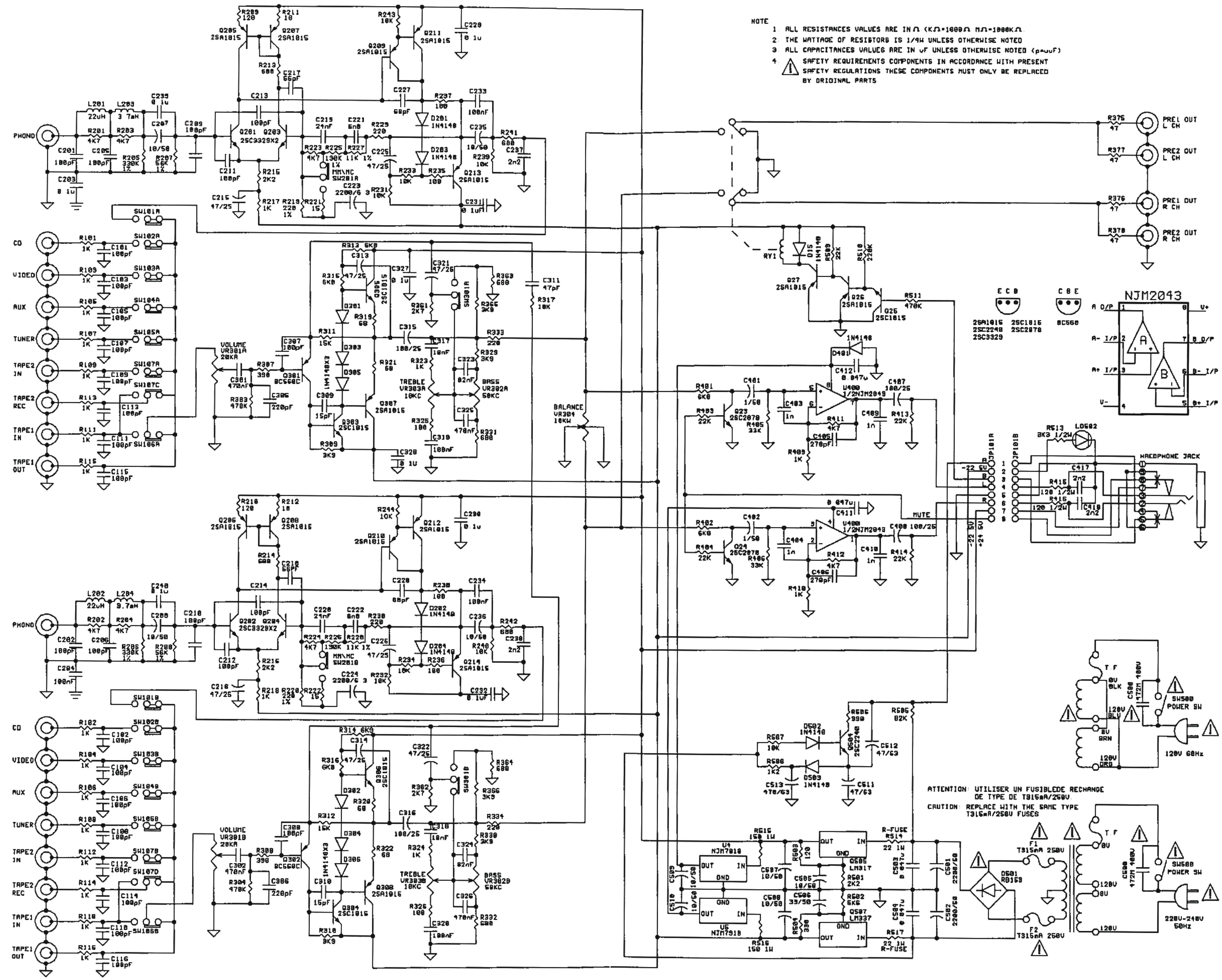


Fig. 2.

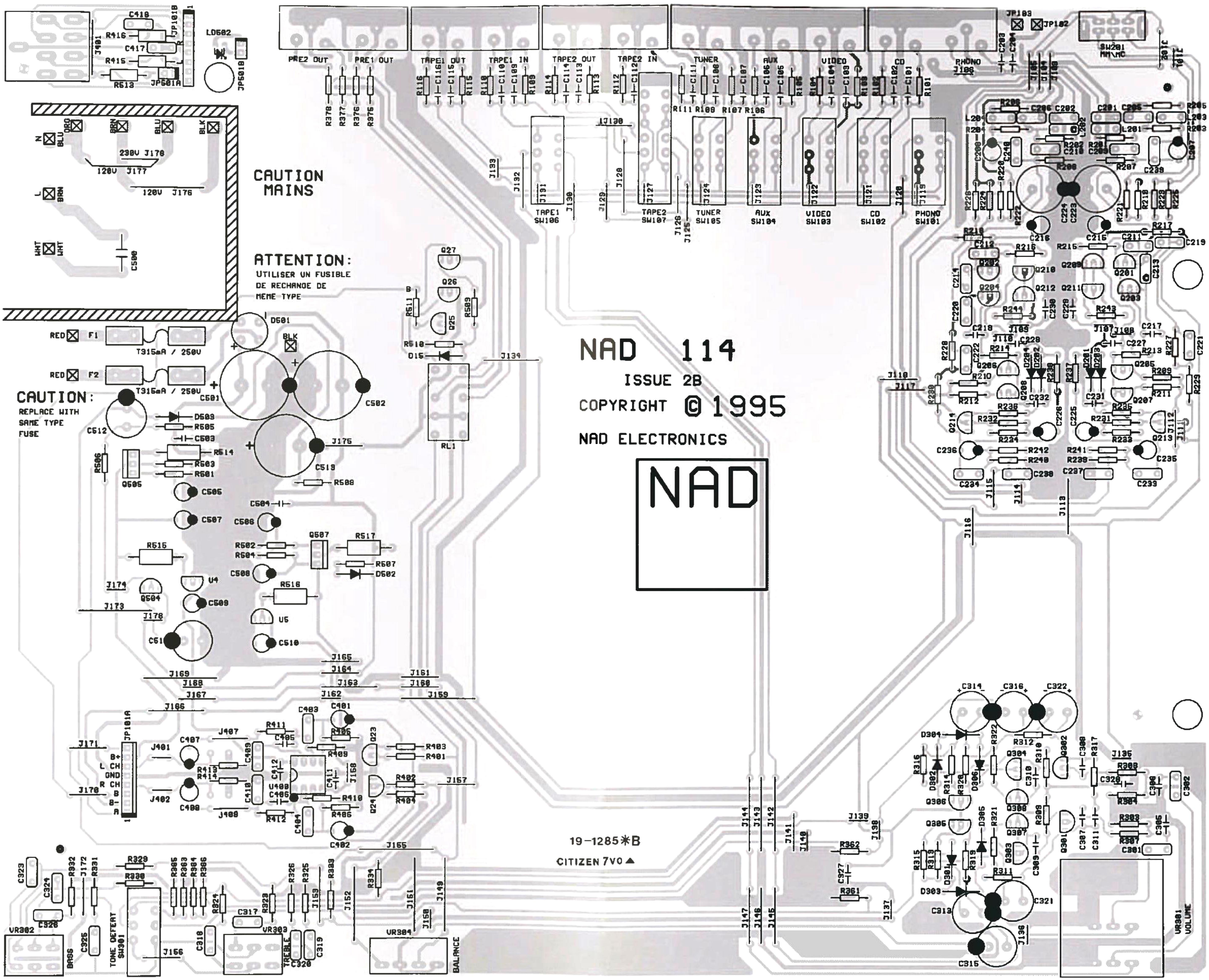
TROUBLE SHOOTING GUIDE



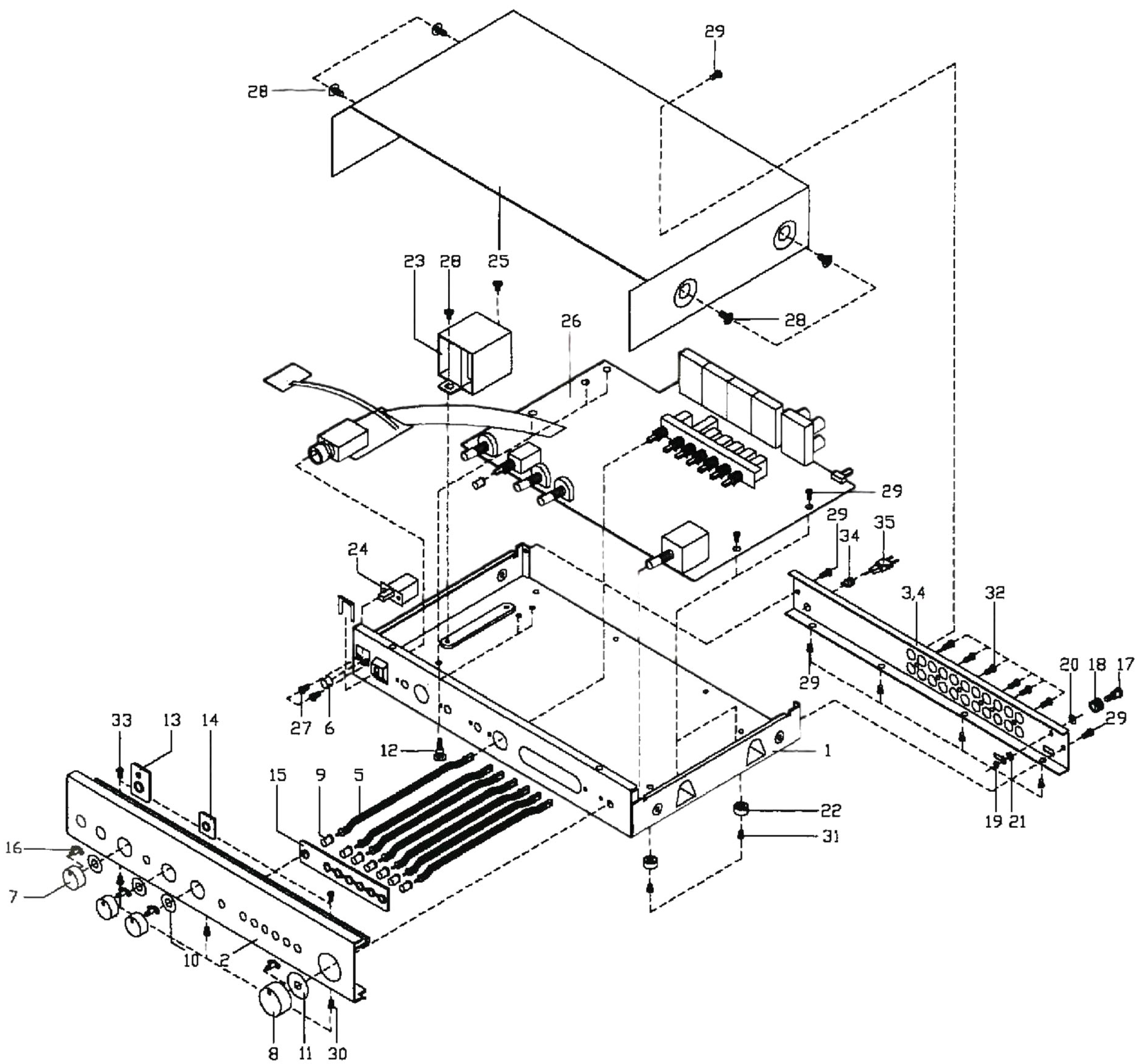
SCHEMATIC DIAGRAM



PCB LAYOUT (PARTS SIDE)



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION		QTY
1	11-6197	MAIN CHASSIS		1
2	11-8526	FRONT PANEL	NAD 114	1
3	11-8527-1*AH	REAR PANEL	(115V)	1
4	11-8527-2*B/B1/C	REAR PANEL	(220V-240V)	1
5	12-1119	LINK		7
6	12-3153	BUTTON,GREEN		1
7	12-3154	KNOB	BASS,TREBLE,BALANCE	3
8	12-3155	KNOB	VOLUME	1
9	12-3156	BUTTON,BLACK	TONE DEF,MONITOR,INPUTS	8
10	12-9002	FELT RING		3
11	12-9003	FELT RING		1
12	13-8229	PCB SPACER	SCB-10	3
13	13-8252	BEZEL,POWER		1
14	13-8259	BEZEL,1 HOLE	TONE DEF.	1
15	13-8260	BEZEL,7 HOLE	INPUTS	1
16	13-9002	POINTER		4
17	15-2037	GND BOLT		1
18	15-2037-1	GND NUT		1
19	15-2037-2	NUT M3.5		1
20	15-2037-3	STOP WASHER		1
21	15-2037-5	GEAR WASHER		1
22	28-1050	RUBBER-FOOT		4
23	29-2160	TRANSFORMER	S3821	1
24	31-1213	SWITCH,POWER	SDDLB1007U-EK TV-3	1
25	50-1042	COVER,TOP		1
26	90-1285	PCB ASS'Y	WITH COMPONENTS	1
27	S1B03+106SL-2	MACHINE SCREW	M3*6	2
28	S1K04+106SL-2	MACHINE SCREW	M4*6 W/WASHER	6
29	S2B03+106SL-2	TAPPING SCREW	T3*6	12
30	S2B03+108SL-2	TAPPING SCREW	T3*8	3
31	S2J03+108SL-2	TAPPING SCREW	T3*8	4
32	S3B03+108SL-2	TAPPING SCREW	T3*8	6
33	S2B03+106SL-2	TAPPING SCREW	T3*6	2
34	14-5003	BUSHINGS	4RF-5	1
35	14-5027*AH	POWER CORD	AH VERSION	1
35	14-5029*B	POWER CORD	B VERSION	1
35	14-5022*B1	POWER CORD	B1 VERSION	1
35	14-5028*C	POWER CORD	C VERSION	1

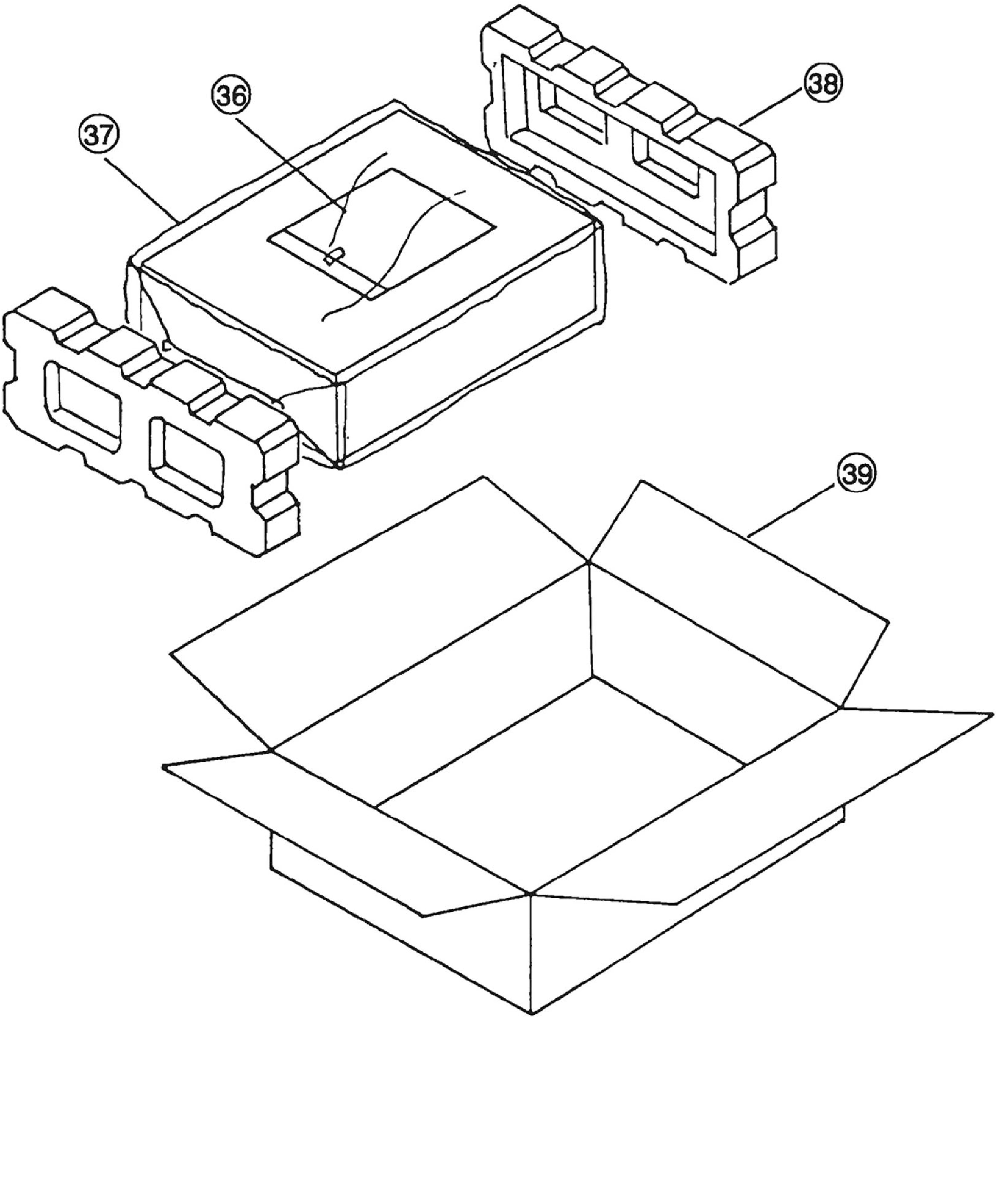
PARTS LIST

SYMBOL NO.	REF. NO.	PART NO.	DESCRIPTION		Q'TY
MAIN PCB A'SSY	(90-1285)	(90-1285)	NAD-114	WITH COMPONENTS	1
PC BOARD					
PCB1	19-1285	19-1285	CEM-1 (330X264X1.6T)	WITHOUT COMPONENTS	1
CAPACITORS					
C101-C116	17-5DR101J	17-5DR101J	CAP. NPO	C.C.,100pF/50V,+/-5%	16
C201,C202	17-5SR101J	17-5SR101J	CAP.	E.PS.,100pF/50V,+/-5%	2
C203,C204	17-5MD104M	17-5MD104M	CAP.(BLUE)	M.CER.,0.1uF/50V,+/-20%	2
C205,C206	17-5SR101J	17-5SR101J	CAP.	E.PS.,100pF/50V,+/-5%	2
C207,C208	17-5ER106M	17-5ER106M	CAP.	ELE.,10uF/50V,+/-20%	2
C209-C212	17-5SR101J	17-5SR101J	CAP.	E.PS.,100pF/50V,+/-5%	4
C213,C214	17-5SR101J	17-5SR101J	CAP.	E.PS.,100pF/50V,+/-5%	2
C215,C216	17-2.5ER476M	17-2.5ER476M	CAP.	ELE.,47uF/25V,+/-20%	2
C217,C218	17-5MD560J	17-5MD560J	CAP.(BLUE)	M.CER.,56pF/50V,+/-5%	2
C219,C220	17-5PR243J	17-5PR243J	CAP. RODAN	P.P.,24nF/50V,+/-5%	2
C221,C222	17-5PR682J	17-5PR682J	CAP. RODAN	P.P.,6n8F/50V,+/-5%	2
C223,C224	17-0.63ER228M	17-0.63ER228M	CAP.	ELE.,2200uF/6V3,+/-20%	2
C225,C226	17-2.5ER476M	17-2.5ER476M	CAP.	ELE.,47uF/25V,+/-20%	2
C227,C228	17-5MD680J	17-5MD680J	CAP.(BLUE)	M.CER.,68pF/50V,+/-5%	2
C229-C232	17-5MD104M	17-5MD104M	CAP.(BLUE)	M.CER.,0.1uF/50V,+/-20%	4
C233,C234	17-6.3GR104J	17-6.3GR104J	CAP.	M.PE.,0.1uF/50V,+/-5%	2
C235,C236	17-5ER106M	17-5ER106M	CAP.	ELE.,10uF/50V,+/-20%	2
C237,C238	17-5PR222J	17-5PR222J	CAP. RODAN	P.P.,2n2F/50V,+/-5%	2
C239,C240	17-6.3GR104J	17-6.3GR104J	CAP.	M.PE.,0.1uF/50V,+/-5%	2
C301,1C302	17-5FR474J	17-5FR474J	CAP.	M.PE.,0.47uF/50V,+/-5%	2
C305,C306	17-5DR221J-N	17-5DR221J-N	CAP. NPO	C.C.,220pF/50V,+/-5%	2
C307,C308	17-5DR101J-N	17-5DR101J-N	CAP. NPO	C.C.,100pF/50V,+/-5%	2
C309,C310	17-5DR150J	17-5DR150J	CAP. NPO	C.C.,15pF/50V,+/-5%	2
C311	17-5DR470J	17-5DR470J	CAP. NPO	C.C.,47pF/50V,+/-5%	1
C313,C314	17-2.5ER476ML	17-2.5ER476ML	CAP. L.L	ELE.,47uF/25V,+/-20%	2
C315,C316	17-2.5ER107ML	17-2.5ER107ML	CAP. L.L	ELE.,100uF/25V,+/-20%	2
C317,C318	17-5PR183J	17-5PR183J	CAP. RODAN	P.P.,18nF/50V,+/-5%	2
C319,C320	17-6.3GR104J	17-6.3GR104J	CAP.	M.PE.,0.1uF/50V,+/-5%	2
C321,C322	17-2.5ER476ML	17-2.5ER476ML	CAP. L.L	ELE.,47uF/25V,+/-20%	2
C323,C324	17-5PR823J	17-5PR823J	CAP. RODAN	P.P.,82nF/50V,+/-5%	2
C325,C326	17-5FR474J	17-5FR474J	CAP.	M.PE.,0.47uF/50V,+/-5%	2
C327,C328	17-5MD104M	17-5MD104M	CAP.(BLUE)	M.CER.,0.1uF/50V,+/-20%	2
C401,C402	17-5ER105M	17-5ER105M	CAP.	ELE.,1uF/50V,+/-20%	2
C403,C404	17-5PR102J	17-5PR102J	CAP. RODAN	P.P.,1nF/50V,+/-5%	2
C405,C406	17-5DR271J	17-5DR271J	CAP. NPO	C.C.,270pF/50V,+/-5%	2
C407,C408	17-2.5ER107M	17-2.5ER107M	CAP.	ELE.,100uF/25V,+/-20%	2
C409,C410	17-5PR102J	17-5PR102J	CAP. RODAN	P.P.,1nF/50V,+/-5%	2
C411,C412	17-5MD473M	17-5MD473M	CAP.(BLUE)	M.CER.,47nF/50V,+/-20%	2
C417,C418	17-5PR222J	17-5PR222J	CAP. RODAN	P.P.,2n2F/50V,+/-5%	2
C500	17-40CR472M	17-40CR472M	CAP. AC,	C.C.4n7F/400V.+-20%	1
C501,C502	17-5ER228M	17-5ER228M	CAP.	ELE.,2200uF/50V,+/-20%	2
C503,C504	17-5MD473M	17-5MD473M	CAP.(BLUE)	M.CER.,47nF/50V,+/-20%	2
C505	17-5ER106M	17-5ER106M	CAP.	ELE.,10uF/50V,+/-20%	1
C506	17-5ER336M	17-5ER336M	CAP.	ELE.,33uF/50V,+/-20%	1
C507-C510	17-5ER106M	17-5ER106M	CAP.	ELE.,10uF/50V,+/-20%	4
C511,C512	17-6.3ER476M	17-6.3ER476M	CAP.	ELE.,47uF/63V,+/-20%	2
C513	17-6.3ER477M	17-6.3ER477M	CAP.	ELE.,470uF/63V,+/-20%	1
DIODES					
D15	1N4148	30-1N4148	DIODE	DIODE 1N4148	1
D201-D204	1N4148	30-1N4148	DIODE	DIODE 1N4148	4
D301-D306	1N4148	30-1N4148	DIODE	DIODE 1N4148	6
D401	1N4148	30-1N4148	DIODE	DIODE 1N4148	1
D501	RB153	30-RB153	BRIDGE DIODE	RB153	1
D502,D503	1N4148	30-1N4148	DIODE	DIODE 1N4148	2
LED					
LD502	30-LTL1234A	30-LTL1234A	LED	LTL1234A (GREEN)	1

SYMBOL NO.	REF. NO.	PART NO.	DESCRIPTION		Q'TY
FUSES					
F1,F2*AH	32S1250315TU	32S1250315TU	FUSE	T315mA/250V,5*20mm,UL/CSA	2
F1,F2*B/B1/C	32S1250315TS	32S1250315TS	FUSE	T315mA/250V,5*20mm,SEMKO	2
HEADPHONE JACK					
HD1	CPJ-061-9G	12-2128G	HEADPHONE JACK	CPJ-061-9G With Clipper	1
COILS					
L201,L202	29-1091	29-1091	COIL	Troid coil, 22uH	2
L203,L204	29-1089	29-1089	COIL	Troid coil, 3.7mH	2
TRANSISTORS					
Q23,Q24	2SC2878A	30-2SC2878A	TR.	2SC2878A, Toshiba	2
Q25	2SC1815GR	30-2SC1815GR	TR.	2SC1815GR, Toshiba	1
Q26,Q27	2SA1015GR	30-2SA1015GR	TR.	2SA1015GR, Toshiba	2
Q201-Q204	2SC3329BL	30-2SC3329BL	TR.	2SC3329BL, Toshiba	4
Q205-Q214	2SA1015GR	30-2SA1015GR	TR.	2SA1015GR, Toshiba	10
Q301,Q302	BC560C	30-BC560C	TR.	BC560C	2
Q303-Q306	2SC1815GR	30-2SC1815GR	TR.	2SC1815GR, Toshiba	4
Q307,Q308	2SA1015GR	30-2SA1015GR	TR.	2SA1015GR, Toshiba	2
Q504	2SC2240GR	30-2SC2240GR	TR.	2SC2240GR, Toshiba	1
Q505	LM317	30-LM317	IC	LM317, NS	1
Q507	LM337	30-LM337	IC	LM337, NS	1
RESISTORS					
R101-R116	16-1/4CA102J	16-1/4CA102J	RES.	C.F.,1K,1/4W,+/-5%	17
R201-R204	16-1/4MA472F	16-1/4MA472F	RES.	M.F.,4K7,1/4W,+/-1%	5
R205,R206	16-1/4MA334F	16-1/4MA334F	RES.	M.F.,330K,1/4W,+/-1%	2
R207,R208	16-1/4MA563F	16-1/4MA563F	RES.	M.F.,56K,1/4W,+/-1%	2
R209,R210	16-1/4CA121J	16-1/4CA121J	RES.	C.F.,120,1/4W,+/-5%	2
R211,R212	16-1/4CA180J	16-1/4CA180J	RES.	C.F.,18,1/4W,+/-5%	2
R213,R214	16-1/4CA681J	16-1/4CA681J	RES.	C.F.,680,1/4W,+/-5%	2
R215,R216	16-1/4CA222J	16-1/4CA222J	RES.	C.F.,47K,1/4W,+/-5%	2
R217,R218	16-1/4CA102J	16-1/4CA102J	RES.	C.F.,1K,1/4W,+/-5%	2
R219	16-1/4MA221F	16-1/4MA221F	RES.	M.F.,220,1/4W,+/-1%	1
R220	16-1/4MA221F	16-1/4MA221F	RES.	M.F.,220,1/4W,+/-1%	1
R221,R222	16-1/4MA150F	16-1/4MA150F	RES.	M.F.,15,1/4W,+/-1%	2
R223,R224	16-1/4MA472F	16-1/4MA472F	RES.	M.F.,4K7,1/4W,+/-1%	2
R225,R226	16-1/4MA134F	16-1/4MA134F	RES.	M.F.,13OK,1/4W,+/-1%	2
R227,R228	16-1/4MA113F	16-1/4MA113F	RES.	M.F.,11K,1/4W,+/-1%	2
R229,R230	16-1/4MA221F	16-1/4MA221F	RES.	M.F.,220,1/4W,+/-1%	2
R231-R234	16-1/4CA103J	16-1/4CA103J	RES.	C.F.,10K,1/4W,+/-5%	5
R235-R238	16-1/4CA101J	16-1/4CA101J	RES.	C.F.,100,1/4W,+/-5%	4
R239,R240	16-1/4MA103F	16-1/4MA103F	RES.	M.F.,10K,1/4W,+/-1%	2
R241,R242	16-1/4MA681F	16-1/4MA681F	RES.	M.F.,680,1/4W,+/-1%	2
R243,R244	16-1/4CA103J	16-1/4CA103J	RES.	C.F.,10K,1/4W,+/-5%	2
R303,R304	16-1/4CA474J	16-1/4CA474J	RES.	C.F.,470K,1/4W,+/-5%	2
R307,R308	16-1/4MA391F	16-1/4MA391F	RES.	M.F.,390,1/4W,+/-1%	2
R309,R310	16-1/4CA392J	16-1/4CA392J	RES.	C.F.,3K9,1/4W,+/-5%	2
R311,R312	16-1/4MA153F	16-1/4MA153F	RES.	M.F.,15K,1/4W,+/-1%	2
R313-R316	16-1/4CA682J	16-1/4CA682J	RES.	C.F.,6K8,1/4W,+/-5%	4
R317	16-1/4CA103J	16-1/4CA103J	RES.	C.F.,10K,1/4W,+/-5%	1
R319-R322	16-1/4CA680J	16-1/4CA680J	RES.	C.F.,68,1/4W,+/-5%	4
R323,R324	16-1/4MA102F	16-1/4MA102F	RES.	M.F.,1K,1/4W,+/-1%	2
R325,R326	16-1/4MA181F	16-1/4MA181F	RES.	M.F.,180,1/4W,+/-1%	2
R329,R330	16-1/4MA392F	16-1/4MA392F	RES.	M.F.,3K9,1/4W,+/-1%	2
R331,R332	16-1/4MA681F	16-1/4MA681F	RES.	M.F.,680,1/4W,+/-1%	2
R361,R362	16-1/4MA272F	16-1/4MA272F	RES.	M.F.,2K7,1/4W,+/-1%	2
R363-R364	16-1/4MA681F	16-1/4MA681F	RES.	M.F.,680,1/4W,+/-1%	2
R365,R366	16-1/4MA392F	16-1/4MA392F	RES.	M.F.,3K9,1/4W,+/-1%	2
R375-R378	16-1/4MA470F	16-1/4MA470F	RES.	M.F.,47,1/4W,+/-1%	4
R401,R402	16-1/4MA682F	16-1/4MA682F	RES.	M.F.,6K8,1/4W,+/1%	2
R403,R404	16-1/4CA223J	16-1/4CA223J	RES.	C.F.,22K,1/4W,+/-5%	2
R405,R406	16-1/4CA333J	16-1/4CA333J	RES.	C.F.,33K,1/4W,+/5%	2

SYMBOL NO.	REF. NO.	PART NO.	DESCRIPTION		Q'TY
R409,R410	16-1/4MA102F	16-1/4MA102F	RES.	M.F.,1K,1/4W,+/-1%	2
R411,R412	16-1/4MA472F	16-1/4MA472F	RES.	M.F.,4K7,1/4W,+/-1%	2
R413,R414	16-1/4CA223J	16-1/4CA223J	RES.	C.F.,22K,1/4W,+/-5%	2
R415,R416	16-1/2CA121J	16-1/2CA121J	RES.	M.F.,120,1/2W,+/-5%	2
R501	16-1/4CA222J	16-1/4CA222J	RES.	C.F.,2K2,1/4W,+/-5%	1
R502	16-1/4CA562J	16-1/4CA562J	RES.	C.F.,5K6,1/4W,+/-55	1
R503	16-1/4CA121J	16-1/4CA121J	RES.	C.F.,120,1/4W,+/-5%	1
R504	16-1/4CA331J	16-1/4CA331J	RES.	C.F.,330,1/4W,+/-5%	1
R505	16-1/4MA823F	16-1/4MA823F	RES.	M.F.,82K,1/4W,+/-5%	1
R506	16-1/4CA391J	16-1/4CA391J	RES.	C.F.,390,1/4W,+/-5%	1
R507	16-1/4CA103J	16-1/4CA103J	RES.	C.F.,10K,1/4W,+/-5%	1
R508	16-1/4CA122J	16-1/4CA122J	RES.	C.F.,1K2,1/4W,+/-5%	1
R509	16-1/4CA223J	16-1/4CA223J	RES.	C.F.,22K,1/4W,+/-5%	1
R510	16-1/4CA224J	16-1/4CA224J	RES.	C.F.,220K,1/4W,+/-5%	1
R511	16-1/4CA474J	16-1/4CA474J	RES.	C.F.,470K,1/4W,+/-5%	1
R513	16-1/2AN332J	16-1/2AN332J	RES.	M.X.,3K3,1/2W,+/-5%	1
R514	16-1AN220J	16-1AN220J	RES.	FUSIBLE,22,1W,+/-5%	1
R515,R516	16-1AN151J	16-1AN151J	RES.	M.X.,150,1W,+/-5%	2
R517	16-1AN220J	16-1AN220J	RES.	FUSIBLE,22,1W,+/-5%	1
RELAY					
RY1	DS2Y-S-DC-24V	29-1000S	RELAY	DS2Y-S-DC-24V	1
SWITCHES					
SW104	31-1263	31-1263	SW-SEL.7P	INPUT SELECT	1
SW201	31-1212-1	31-1212-1	SW-SLIDE (302)	MM/MC	1
SW301	31-1211	31-1211	SW-PUSH	TONE DEFEAT(302)	1
ICS					
U4	NJM78L18	30-NJM78L18	IC	NJM78L18	1
U5	NJM79L18	30-NJM79L18	IC	NJM79L18	1
U400	NJM2043(D)	30-NJM2043(D)	IC	NJM2043(D)	1
SEMI. RESISTOR					
VR301	RK27112A0-20KA	29-4210	VR VOLUME	RK27112A0-20KAX2	1
VR302	RK163121A16-10KC	29-4198	VR TREBLE (302)	RK163121A16-10KCX2(EK)	1
VR303	RK163121A144-50KC	29-4201	VR BASS (302)	RK163121A144-50KCX2(EK)	1
VR304	RK163111E293-10KW	29-4199	VR BALANCE (302)	RK163111E293-10KW(EK)	1
RCA JACKS					
	CPS-054GA	12-CPS-054GA	RCA JACK, 4P (GOLD)	(PRE OUT1/2)	1
	CPS-054C	12-2173	RCA JACK, 4P	(TAPE1/2 IN/OUT)	2
	CPS-056C	12-CPS-056C	RCA JACK, 6P	(VIDEO/AUX/TUNER)	1
	CPS-054GA-5	12-CPS-054GA-5	RCA JACK, 4P (GOLD W/T GND PLATE)	(PHONO/CD)	1

PACKING DIAGRAM



ITEM	PARTS NO.	DESCRIPTION	Q'TY
36	21-4085	OWNER'S MANUAL	1
37	26-0716	PE - BAG	1
38	34-1090	POLYLON	2
39	CT-5280	CARTON	1

SERVICE MANUAL

114 STEREO AMPLIFIER

NAD ELECTRONICS

LONDON