

NAD SERVICE **MANUAL**

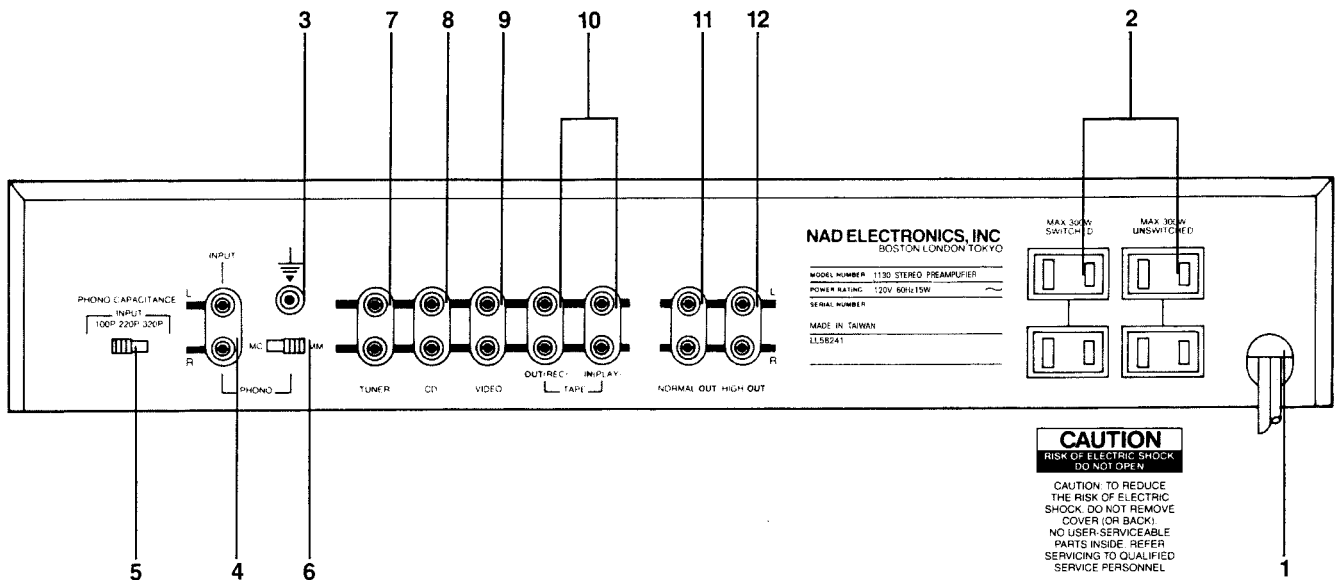
1130
STEREO PREAMPLIFIER

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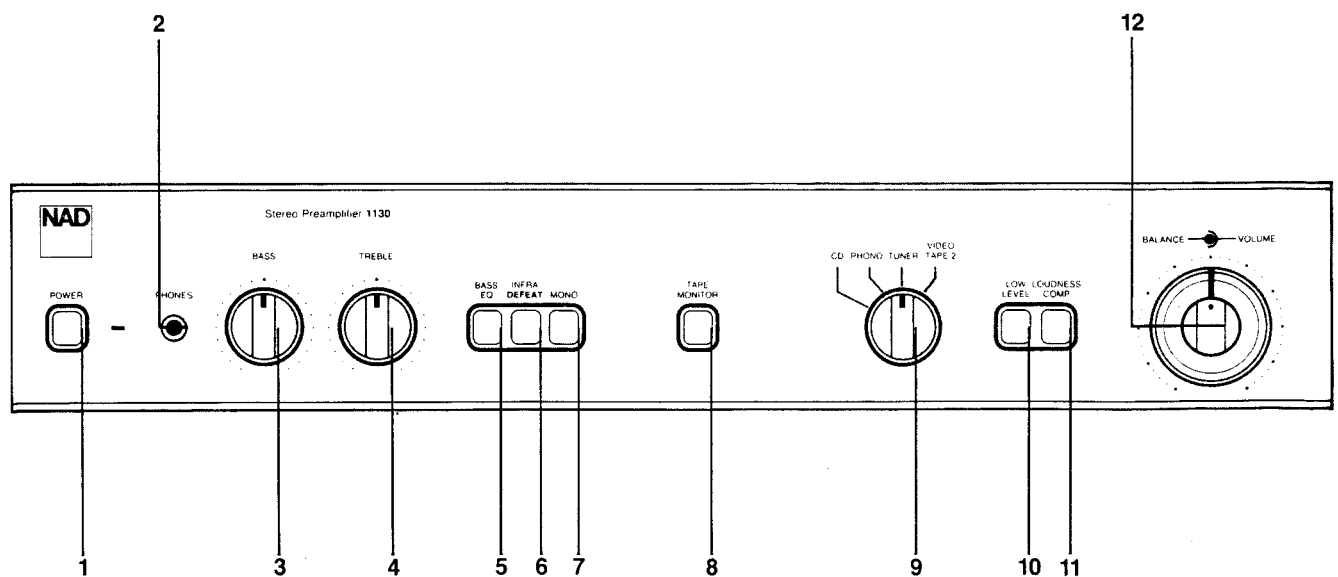
REAR PANEL

1. AC Line Cord.
2. AC Convenience Outlets.
3. Phono Ground.
4. Phono Input.
5. Capacitance Selector.
6. MM/MC Selector.
7. Tuner Input.
8. CD Input.
9. Video Input.
10. Tape Rec/Play.
11. Preamp Output (Normal)
12. Preamp Output (High Level)



FRONT PANEL

1. Power.
2. Phones.
3. Bass.
4. Treble.
5. Bass EQ.
6. Infrasonic Filter Defeat.
7. Mono.
8. Tape Monitor.
9. Input Selector.
10. Low Level.
11. Loudness Compensation.
12. Volume/Balance.



SPECIFICATIONS, NAD 1130 STEREO PREAMPLIFIER

Input Sensitivity (1KHz)

MC	0.1mV
MM	1.5mV
High-Level	90mV

Rated output Voltage 20-20KHz 8V

Rated Distortion 20—20KHz 0.02%

Max output Voltage (at clipping point)

50K ohm load	8V
600 ohm load	2.5V

Signal to noise ratio

MC	Flat (INFRASONIC DEFEAT OFF)	59dB
	A-weighted	75dB
MM	Flat (INFRASONIC DEFEAT OFF)	75dB
	A-weighted	85dB
	High-Level Flat (INFRASONIC DEFEAT ON)	80dB
	A-weighted	90dB

RIAA PHONO ± 0.5 dB

Frequency Response 20—20KHz ± 0.5 dB

Tone control

Treble	(10KHz)	± 7 dB
Bass	(50Hz)	± 9.5 dB
Loudness	(10KHz)	$+3$ dB/ ± 0.5 dB
Loudness	(50Hz)	$+6$ dB/ ± 1 dB

Bass Equalization

(at 70Hz)	$+2$ dB
(at 40 Hz)	$+5$ dB

Audio Muting (Low Level) -20 dB ± 1 dB

Infrasonic filter -3 dB at 9Hz, 12dB/octave

Max output Voltage (at clipping point)

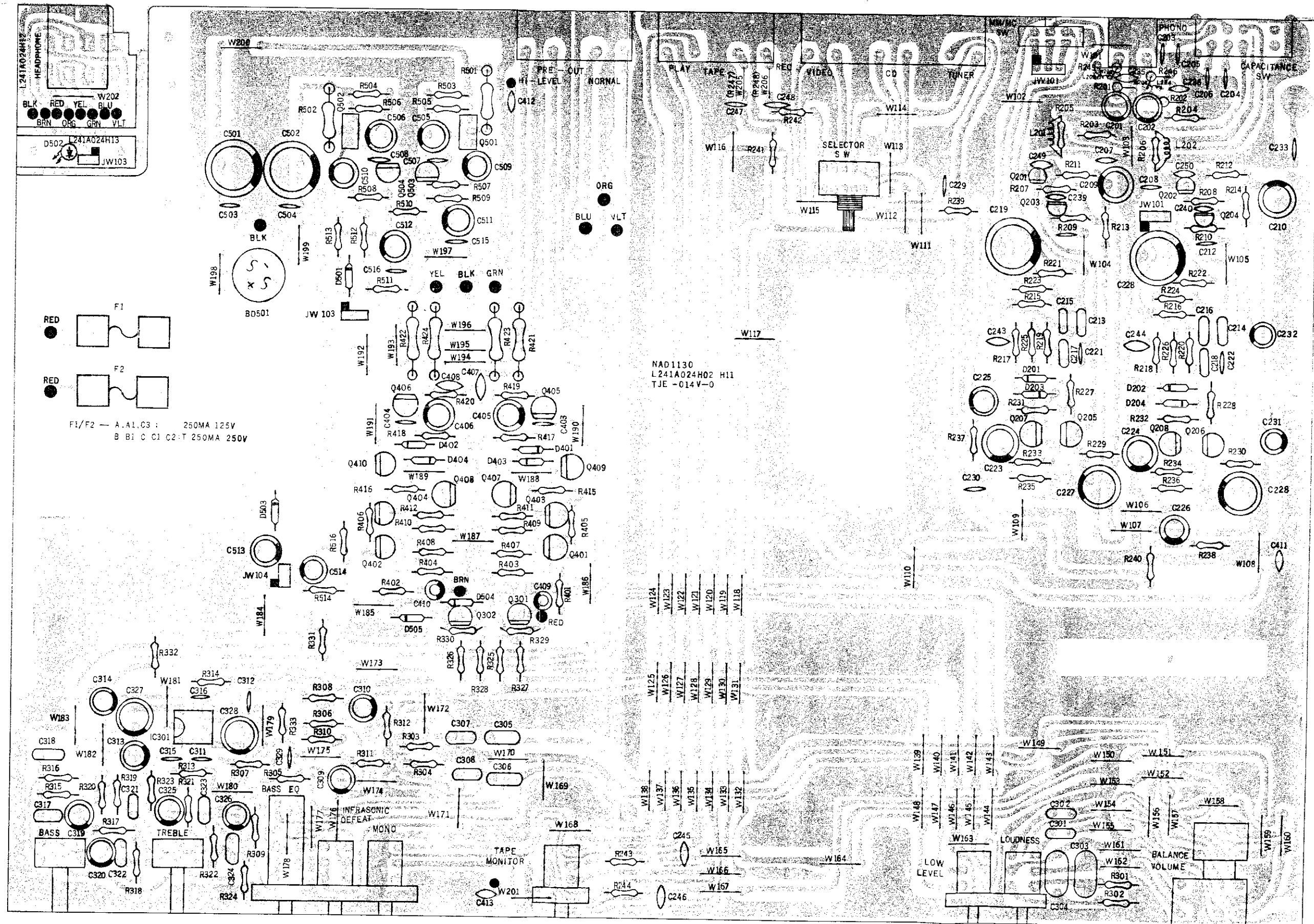
50K ohm Load	13V
600 ohm Load	9V
8 ohm Load	300mV

Net Weight 4.25 Kg/9 lb, 6 oz.

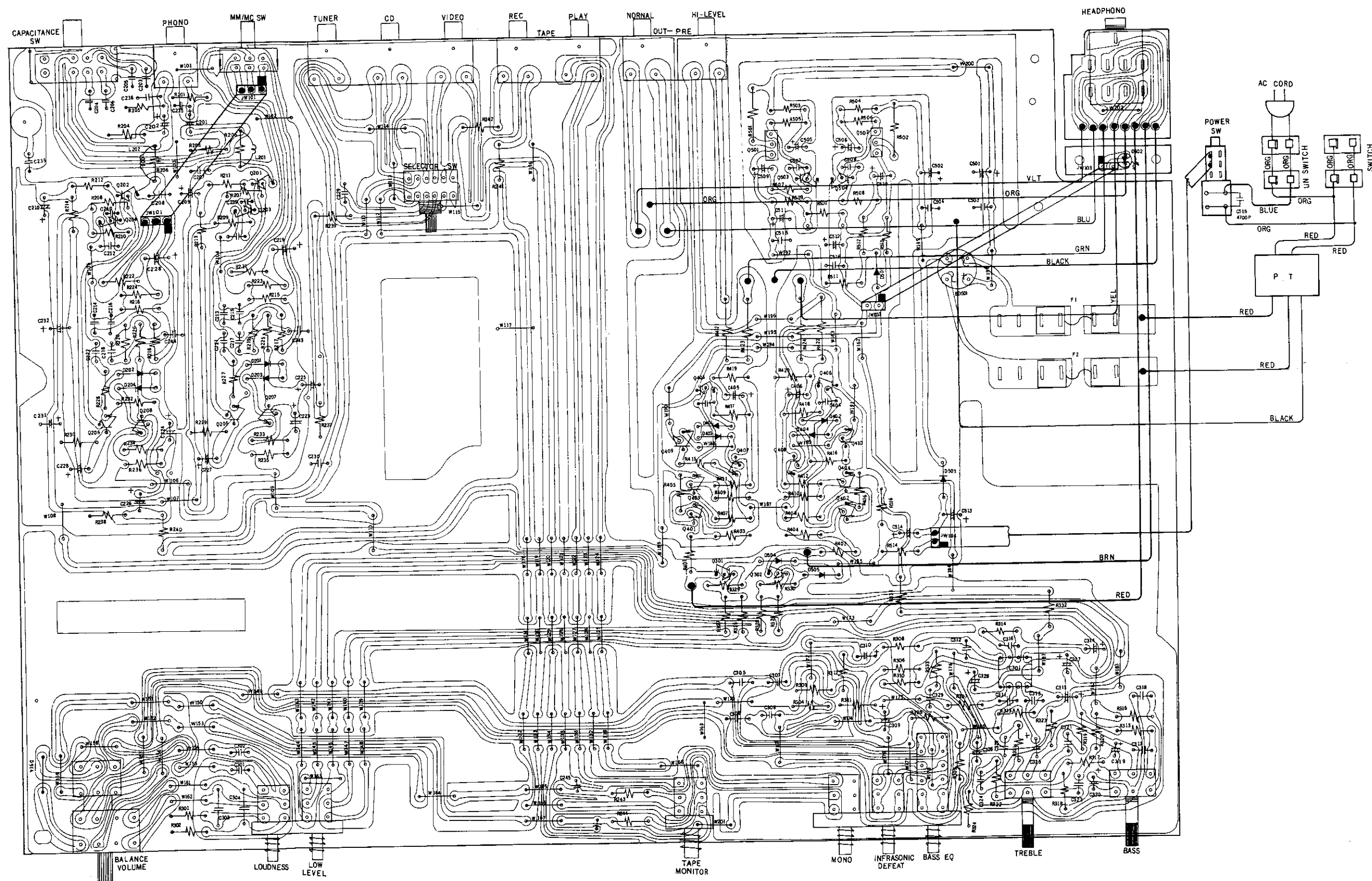
Shipping Weight 4.7 Kg/10 lb, 5 oz.

Power consumption 50/60 Hz at 120.
220 or 240 VAC
17 W

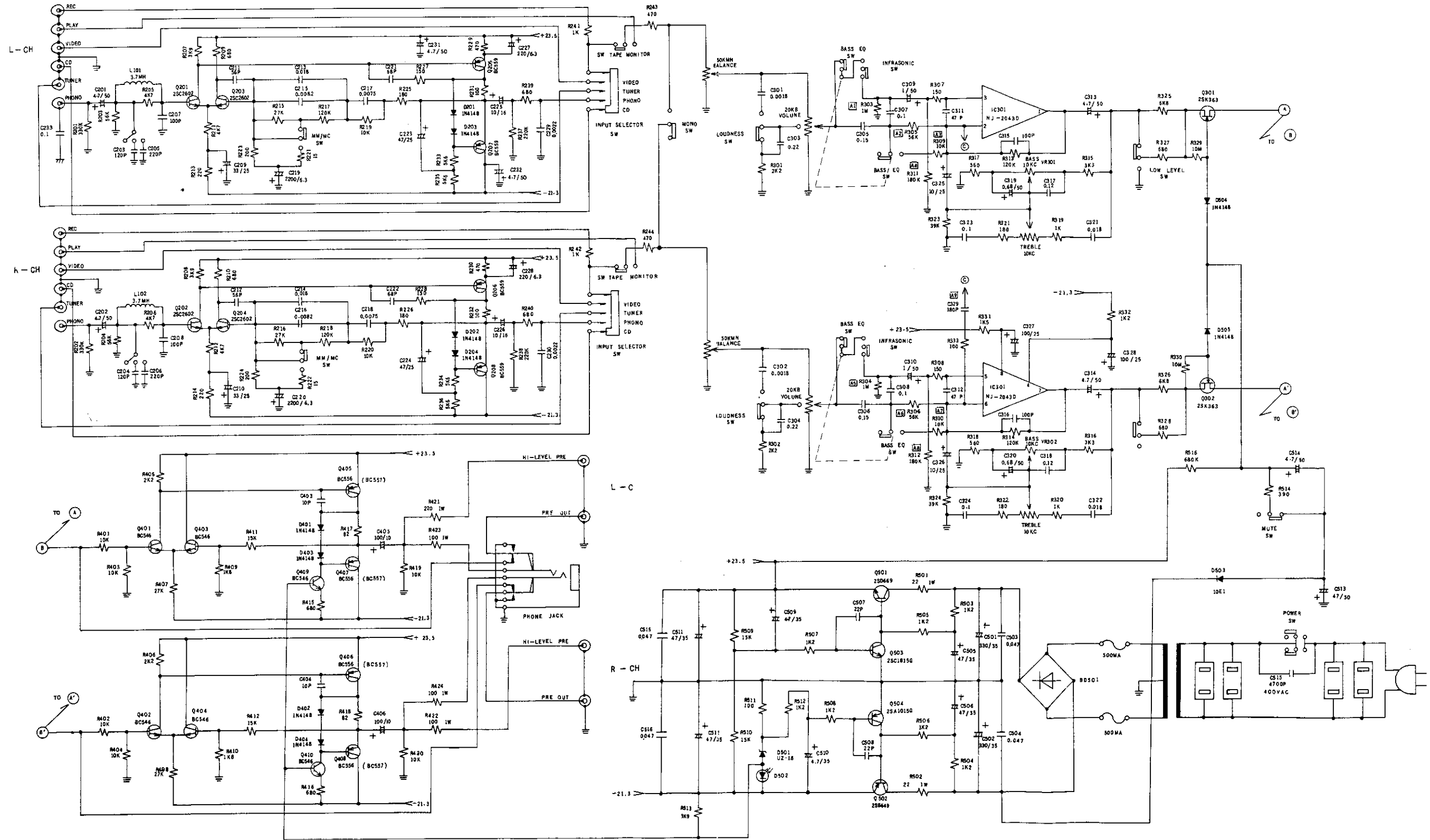
MAIN PCB COMPONENT LOCATION



PCB LAYOUT AND WIRING DIAGRAM



SCHEMATIC DIAGRAM



NAD 1130 PARTS LIST

SYMBOL NO.	PART NO.	DESCRIPTION	REF
R201	L103Y214H49	Res, Carb. 330K ±5% 1/4W	
R202	"	" " " " "	
R203	L103Y214H40	" 56K " " "	
R204	"	" " " " "	
R205	U103S104H27	" 4.7K " " "	
R206	"	" " " " "	
R207	L103Y214H26	" 3.9K " " "	
R208	"	" " " " "	
R209	L103Y214H17	" 680 " " "	
R210	"	" " " " "	
R211	L103Y214H27	" 4.7K " " "	
R212	"	" " " " "	
R213	L103Y214H11	" 220 " " "	
R214	"	" " " " "	
R215	L103Y216H59	" 27K ±2% " "	
R216	"	" " " " "	
R217	L103Y216H75	" 120K " " "	
R218	"	" " " " "	
R219	L103Y216H49	" 10K " " "	
R220	"	" " " " "	
R221	L103Y214H02	" 15 ±5% " "	
R222	"	" " " " "	
R223	L103Y216H08	" 200 ±2% " "	
R224	"	" " " " "	
R225	L103Y214H10	" 180 ±5% " "	
R226	"	" " " " "	
R227	L103Y214H09	" 150 " " "	
R228	"	" " " " "	
R229	L103Y214H15	" 470 " " "	
R230	"	" " " " "	
R231	L103Y214H07	" 100 " " "	
R232	"	" " " " "	
R233	L103Y214H28	" 5.6K " " "	
R234	"	" " " " "	
R235	"	" " " " "	
R236	"	" " " " "	
R237	L103Y214H47	" 220K " " "	
R238	"	" " " " "	
R239	L103Y214H17	" 680 " " "	
R240	"	" " " " "	
R241	L103Y214H19	" 1K " " "	
R242	"	" " " " "	
R243	L103Y214H15	" 470 " " "	
R244	"	" " " " "	
R301	L103Y214H23	" 2.2K " " "	
R302	"	" " " " "	
R303	L103Y214H55	" 1M " " "	
R304	L103Y214H55	" 1M " " "	
R305	L103Y214H40	" 56K " " "	
R306	"	" " " " "	
R307	L103Y214H09	" 150 " " "	
R308	"	" " " " "	
R309	L103Y214H31	" 10K " " "	
R310	"	" " " " "	
R311	L103Y214H46	" 180K " " "	
R312	"	" " " " "	
R313	L103Y214H44	" 120K " " "	
R314	"	" " " " "	
R315	L103Y214H25	" 3.3K " " "	
R316	"	" " " " "	
R317	L103Y214H16	" 560 " " "	
R318	"	" " " " "	
R319	L103Y214H19	" 1K " " "	
R320	"	" " " " "	
R321	L103Y214H10	" 180 " " "	

SYMBOL NO.	PART NO.	DESCRIPTION	REF
R322	L103Y214H10	Res, Carb. 180 ±5% 1/4W	
R323	L103Y214H38	" 39K " " "	
R324	"	" " " " "	
R325	L103Y214H29	" 6.8K " " "	
R326	"	" " " " "	
R327	L103Y214H17	" 680 " " "	
R328	"	" " " " "	
R329	L103Y214H59	" 10M " " "	
R330	"	" " " " "	
R331	L103Y214H21	" 1.5K " " "	
R332	L103Y214H20	" 1.2K " " "	
R333	L103Y214H07	" 100 " " "	
R401	L103Y214H31	" 10K " " "	
R402	"	" " " " "	
R403	L103Y214H31	" " " " "	
R404	"	" " " " "	
R405	L103Y214H23	" 2.2K " " "	
R406	"	" " " " "	
R407	L103Y214H36	" 27K " " "	
R408	"	" " " " "	
R409	L103Y214H22	" 1.8K " " "	
R410	"	" " " " "	
R411	L103Y214H33	" 15K " " "	
R412	"	" " " " "	
R413	"	" " " " "	
R414	"	" " " " "	
R415	L103Y214H17	" 680 " " "	
R416	"	" " " " "	
R417	L103Y214H70	" 82 " " "	
R418	"	" " " " "	
R419	L103Y214H31	" 10K " " "	
R420	"	" " " " "	
R421	U105S005H17	" 220 " 1W	
R422	"	" " " " "	
R423	U105S005H13	" 100 " 1W	
R424	"	" " " " "	
R501	U105S005H05	" 22 " 1W	
R502	"	" " " " "	
R503	L103Y214H19	" 1K " 1/4W	
R504	"	" " " " "	
R505	"	" " " " "	
R506	"	" " " " "	
R507	"	" " " " "	
R508	"	" " " " "	
R509	L103Y214H33	" 15K " " "	
R510	"	" " " " "	
R511	L103Y214H07	" 100 " " "	
R512	L103Y214H20	" 1.2K " " "	
R513	L103Y214H26	" 3.9K " " "	
R514	L103Y214H14	" 390 " " "	
R515	"	" " " " "	
R516	L103Y214H53	" 680K " " "	
C201	L182Y322H63	Cap, El. 4.7μF +75-10% 50V	
C202	"	" " " " "	
C203	L140Y203H37	Cap, Cer. 120PF ±5% 50WV	
C204	"	" " " " "	
C205	L140Y306H05	" 220PF ±10% 50WV	
C206	"	" " " " "	
C207	L140Y203H35	Cap, Cer. 100PF ±5% 50WV	
C208	"	" " " " "	
C209	L183Y322H36	Cap, El. 33μF +50-10% 25V	
C210	"	" " " " "	
C211	L140Y203H29	Cap, Cer. 56Pf ±5% 50WV	
C212	"	" " " " "	

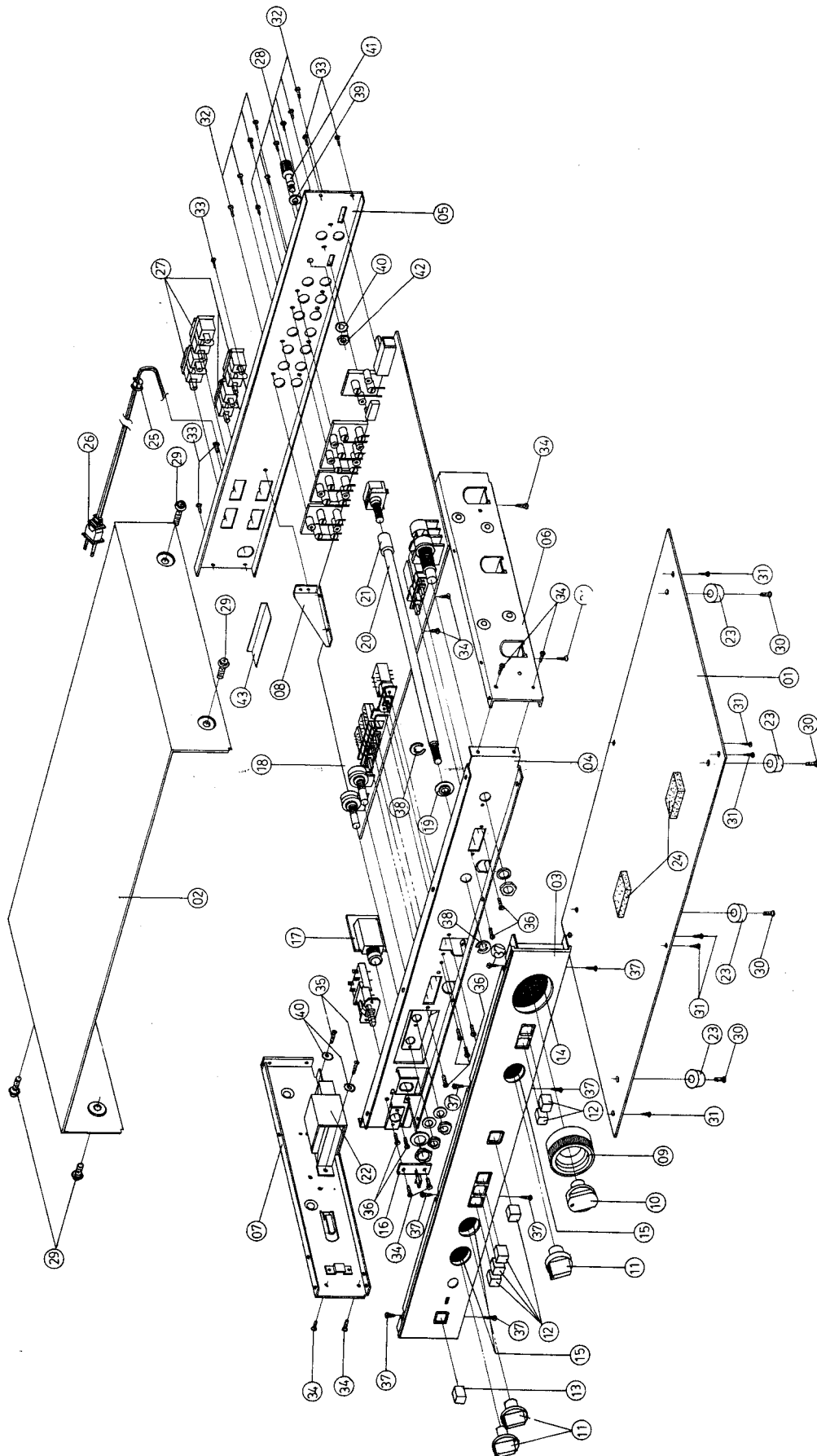
SYMBOL NO.	PART NO.	DESCRIPTION	REF
C213	L172Y306H16	Cap, Poly. 0.018μF ±5% 50WV	
C214	"	" " " " "	
C215	L172Y306H12	" 0.0082μF " " "	
C216	"	" " " " "	
C217	L172Y004H01	" 0.0075μF " " "	
C218	"	" " " " "	
C219	U182S022H07	Cap, El. 2200μF +50-10% 6.3V	
C220	"	" " " " "	
C221	L140Y203H31	Cap, Cer. 88PF ±5% 50WV	
C222	"	" " " " "	
C223	L182Y322H37	Cap, El. 47μF +50-10% 25V	
C224	"	" " " " "	
C225	L182Y322H22	Cap, El. 10μF +50-10% 16V	
C226	"	" " " " "	
C227	L182Y322H03	" 220μF " 6.3V	
C228	"	" " " " "	
C229	L172Y306H05	Cap, Poly. 0.0022μF ±5% 50WV	
C230	"	" " " " "	
C231	L182Y322H63	Cap, El. 4.7μF +75-10% 50V	
C232	"	" " " " "	
C233	L140Y201H25	Cap, Cer. 0.1μF ±10% 50WV	
C301	L172Y306H04	Cap, Poly 0.0018μF ±5% 50WV	
C302	"	" " " " "	
C303	U172S002H15	" 0.22μF " " "	
C304	"	" " " " "	
C305	U172S002H14	" 0.15μF " " "	
C306	"	" " " " "	
C307	L172Y306H25	Cap, Poly. 0.1μF ±5% 50WV	
C308	"	" " " " "	
C309	U182S033H40	Cap, El. 1μF +75-10% 50V	
C310	"	" " " " "	
C311	L140Y203H27	Cap, Cer. 47PF ±5% 50WV	
C312	"	" " " " "	
C313	L182Y322H63	Cap, El. 4.7μF +75-10% 50V	
C314	"	" " " " "	
C315	L140Y203H35	Cap, Cer. 100pF ±5% 50WV	
C316	"	" " " " "	
C317	L172Y306H26	Cap, Poly 0.12μF " " "	
C318	"	" " " " "	
C319	U192S022H59	Cap, El. 0.68μF +75-10% 50V	
C320	"	" " " " "	
C321	L172Y306H16	Cap, Poly 0.018μF ±5% 50WV	
C322	"	" " " " "	
C323	L172Y306H25	" 0.1μF " " "	
C324	"	" " " " "	
C325	L182Y322H34	Cap, El. 10μF +50-10% 25V	
C326	"	" " " " "	
C327	L182Y322H38	" 100μF " " "	
C328	"	" " " " "	
C329	L140Y306H04	Cap, Cer. 180pF ±5% 50WV	
C401	"	" " " " "	
C402	"	" " " " "	
C403	L140Y203H11	Cap, Cer. 10pF ±0.5pF 50WV	
C404	"	" " " " "	
C405	L182Y322H14	Cap, El. 100μF +50-10% 10V	
C406	"	" " " " "	
C501	U182S022H51	Cap, El. 330μF +50-10% 35V	
C502	"	" " " " "	
C503	L140Y306H45	Cap, Cer. 0.047μF +80-20% 50WV	
C504	"	" " " " "	
C505	L182Y322H48	Cap, El. 47μF +50-10% 35V	
C506	"	" " " " "	
C507	L140Y203H19	Cap, Cer. 22pF ±5% 50WV	
C508	"	" " " " "	
C509	L182Y322H63	Cap, El. 4.7μF +75-10% 50V	

SYMBOL NO.	PART NO.	DESCRIPTION	REF
C510	L182Y322H63	Cap, El. 4.7μF +75-10% 50V	
C511	L182Y302H48	Cap, El. 47μF +50-10% 35V	
C512	"	" " " " "	
C513	L182Y322H67	" 47μF " 50V	
C514	L182Y322H63	" 4.7μF +75-10% 50V	
C515	L140Y306H45	Cap, Cer. 0.047μF +80-20% 50WV	
C516	L140Y306H45	" " " " "	
Q201	L260D023H02	TR, 2SC2602 (G)	
Q202	"	" " " " "	
Q203	"	" " " " "	
Q204	"	" " " " "	
Q205	L260D027H03	TR, BC559B	
Q206	"	" " " " "	
Q207	"	" " " " "	
Q208	"	" " " " "	
Q301	L260D036H01	TR, 2SK363 (GR)	
Q302	"	" " " " "	
Q401	L260D034H02	TR, BC546A	
Q402	"	" " " " "	
Q403	"	" " " " "	
Q404	"	" " " " "	
Q405	L260D035H06	TR, BC557B	
Q406	"	" " " " "	
Q407	"	" " " " "	
Q408	"	" " " " "	
Q409	L260D034H02	TR, BC546A	
Q410	"	" " " " "	
Q501	L260D024H05	TR, 2SD669A (C)	
Q502	L260D021H05	TR, 2SB649A (C)	
Q503	U260S061H03	TR, 2SC1815 (GR)	
Q504	L260D020H03	TR, 2SA1015 (GR)	
D201	U264D037H01	DIODE, 1N4148	
D202	"	" " " " "	
D203	"	" " " " "	
D204	"	" " " " "	
D401	U264D037H01	DIODE 1N4148	
D402	"	" " " " "	
D403	"	" " " " "	
D404	"	" " " " "	
D501	U264C003H01	DIODE, ZENER UZ-18B (H)	
D502	"	" " " " "	
D503	U264S003H01	DIODE 10E1	
D504	U264D037H01	DIODE 1N4148	
D505	"	" " " " "	
BD501	L264D017H01	DIODE PB153M	
IC301	L262C020H01	IC, NJM2043 (D)	
LED	L268Y026H01	LED, SE-9421D (GREEN)	
L201	L351Y004H01	COIL, TOROIDL	
L202	"	" " " " "	
VR201	L121Y011H01	VR, VOLUME 20KB+50KMN	
VR301	L121Y010H01	VR, 10KB	
VR302	"	" " " " "	
SW	L430Y009H01	SW, SELECT CD/PHONO/TU/VIDEO	
SW	L431Y012H01	SW, SLIDE MM/MC	
SW	L431Y021H01	SW, SLIDE CAPACITANCE	
SW	L432Y028H01	SW, PUSH LOW LEVEL LOUDNESS	
SW	L432Y029H01	SW, PUSH TAPE MONITOR	

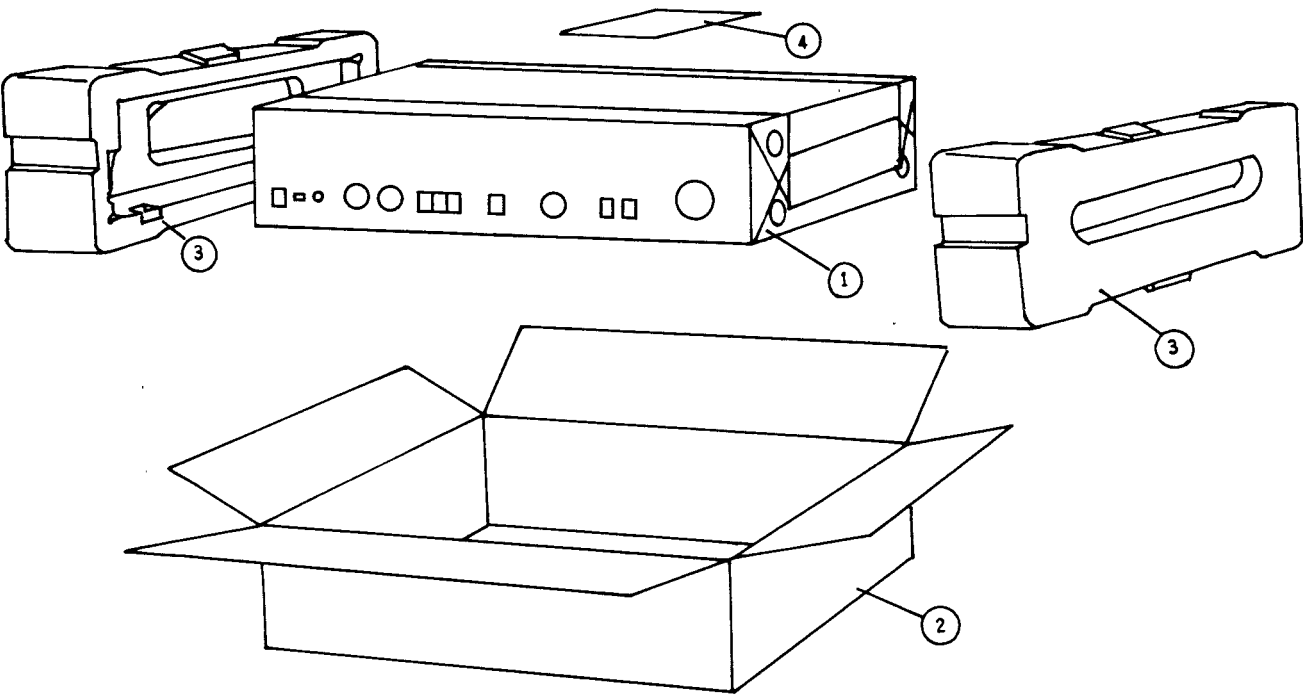
SYMBOL NO.	PART NO.	DESCRIPTION	REF
SW	L432Y045H01	SW, PUSH MONO/INF/BASS	
J	L440Y005H01	JACK RAC PHONO	
J	L440Y006H01	JACK RCA PRE-OUT TAPE	
J	L440Y008H01	JACK RCA TU/CD/VIDEO	
J	L451Y017H01	JACK HEAD PHONE	
TP	U685S223H01	PIN	
PT	L350Y049H01	TRANS. POWER	A1
PT	L350Y050H01	"	A
PT	L350Y051H01	"	B
PT	L350Y052H01	"	C1
PT	L350Y052H01	"	C
PT	L350Y051H01	"	B1
PT	L350Y053H01	"	C3
PT	L350Y052H01	"	C2
SW	L432Y035H01	SW, POWER	A1
SW	L432Y035H01	SW, POWER	A
SW	L432Y034H01	"	B
SW	L432Y034H01	"	C1
SW	L432Y034H01	"	C
SW	L432Y034H01	"	B1
SW	L432Y034H01	"	C3
SW	L432Y034H01	"	C2
F	U283S017H04	FUSE UL	A1
F	"	"	A
F	U283S022H27	FUSE, SEMKO	B
F	"	"	C1
F	"	"	C
F	U283S022H27	FUSE SEMKO	B1
F	U283S017H04	FUSE UL	C3
F	U283S022H27	FUSE SEMKO	C2
	L230Y002H01	CONNECTOR	B
	"	"	C1
	"	"	C
	"	"	B1
	"	"	C2
	L457D501H01	FUSE HOLDER	

ITEM	PARTS NO.	NAME	Q'TY
01	L580B004H01	Cover Bott	1
02	L561B006H01	Cabinet	1
03	L702A016H01	Panel Front	1
04	L547B009H01	Chassis Front Sub.	1
05	L582B003H01	Panel Rear	1
05	L582B003H01	" A	1
05	L582B003H02	" B	1
05	L582B003H03	" C1	1
05	L582B003H03	" C	1
05	L582B003H02	" B1	1
05	L582B003H03	" C3	1
05	L582B003H04	" C2	1
06	L547B008H01	Frame (R)	1
07	L547B007H01	Frame (L)	1
08	L541D089H01	Bracker, PCB Support	1
09	L704D062H01	Knob Volume	1
10	L704D065H01	Knob Balance	1
11	L704D064H01	Knob Rotary	3
12	L704D061H01	Knob Push	6
13	L704D061H02	Knob Power	1
14	L550D037H02	Felt Ring	1
15	L550D037H01	Felt Ring	3
16	L241A024H13	PCB-Main (LED)	1
17	L241A024H12	PCB Main (HEAD PHONE)	1
18	L241A024H01	PCB Main (PRE AMP)	1
19	L550D036H01	Guide Shaft	1
20	L531D017H02	Shaft Rotary	1
21	L562D022H01	Sleeve, input selector Switch	1
22	L350Y049H01	Transformer, Power	1
23	L771D006H01	Foot Rubber	4
24	L552D015H01	Cushion Sponge	2
25	L540D501H01	Clamper	1
26	L242Y501H01	AC Cord	1
26	L242Y501H01	" A	1
26	U242C872H06	" B	1
26	U242C809H18	" C1	1
26	U242C809H18	" C	1
26	L242Y013H01	" B1	1
26	L242C310H01	" C3	1
26	U242C809H18	" C2	1
27	L449Y002H02	AC Socket	4
27	L449Y002H02	" A	4
27	L449Y002H02	" C3	4
27	L449Y002H02	" C2	4
28	L531D018H01	Shaft Gnd	1
29	L650D005H02	Screw-B M4x5	4
30	U650S025H31	Screw-P M4 x 10	4
31	U656S263H23	Screw-Tap 2-3x6	6
32	U656S164H24	Screw-Tap 1-3x8	10
33	U656S164H24	Screw-Tap 1-3x8	5
34	U656S263H33	Screw-Tap 2-3x6	10
35	U656S165H22	Screw-Tap 1-3x5	2
36	U650S063H19	Screw-B M3x6	8
37	U656S164H23	Screw-Tap 1-3x6	8
38	U685S100H08	E-Ring 5	2
39	L683D011H01	Washer Post	1
40	U680S322H03	Washer Toothed 3	3
41	L670D002H01	Nut Gnd	1
42	L670D004H01	Nut M3.5	1
43	L840D009H01	Cover AC Socket	1
43	"	Cover AC Socket A	1
43	"	Cover AC Socket C3	1
43	"	Cover AC Socket C2	1

EXPLODED VIEW



PACKING DIAGRAM



Item	Number	NAME	Q'ty
1	L831D004H01	Bag-Poly	1
2	L800D004H02	Carton Individual	1
3	L813A010H01	Styro Packing	2
4	L871B001H72	Instruction	1