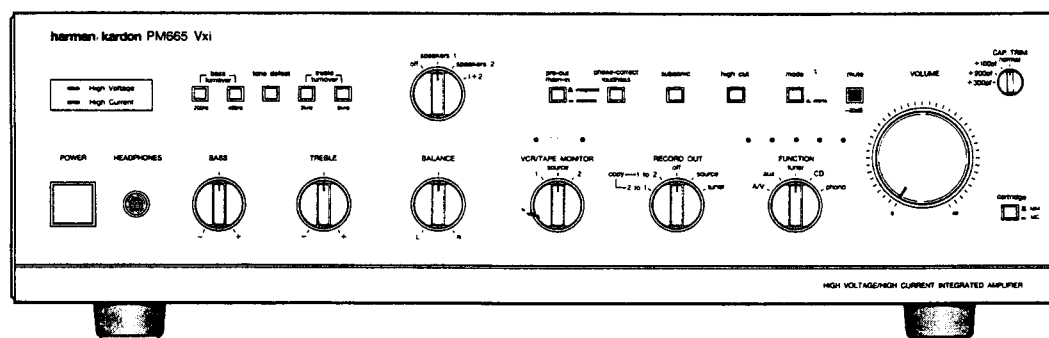


# The Harman Kardon Model PM665 Vxi STEREO INTEGRATED AMPLIFIER

Manual 115A

## Technical Manual



The following marks found in the parts list of this manual identify the models as follows.

- UA : North America area model
- BK : North America area model Black version
- G : General model
- GB : General model Black version
- N : Japan model

**harman/kardon**

240 Crossways Park West, Woodbury, N. Y. 11797  
1112-3152115A9 P-088710

## SPECIFICATIONS

	Nominal	Limit
RMS Output Power		
8Ω, 1kHz THD 0.08%	169W	≥ 150W
4Ω, 1kHz THD 0.1%	175W	≥ 150W
High Instantaneous Current Capability (HCC)	80A	≥ 65A
Half Power Bandwidth	10Hz ~ 100kHz	
Frequency Response at -3dB	0.22Hz ~ 180kHz	
Input Sensitivity		
Video/CD	135mV	± 25mV
Phono(MM)	2.2mV	± 0.3mV *
Phono(MC)	120μV	± 20μV *
Signal to Noise Ratio		
Video/CD	76dB	≥ 74dB
Phono(MM)	76dB	≥ 73dB
Phono(MC)	74dB	≥ 71dB
Channel Separation at 10kHz		
Video/CD	54dB	≥ 45dB
Phono(MM)	61dB	≥ 45dB
Phono(MC)	65dB	≥ 45dB
IM Distortion Ratio	0.022%	≤ 0.1%
Damping Factor at 1kHz	76	≥ 60
Tone Control Characteristics		
Bass Turnover Frequency (200Hz/400Hz)		
Bass at 50Hz/100Hz		
Boost	10dB	± 2dB
Cut	10dB	± 2dB
Treble Turnover Frequency (2kHz/6kHz)		
Treble at 10kHz/30kHz		
Boost	10dB	± 2dB
Cut	10dB	± 2dB

	Nominal	Limit
Filters		
Subsonic	15Hz,	-3.5dB ± 1dB/Octave
High Cut	6kHz,	-3dB ± 1dB/Octave
DC Output Voltage		
L channel		0mV ± 60mV
R channel		0mV ± 60mV
RIAA Equalization at Tape Out (20Hz/20kHz) (No load)	0.1dB	± 0.5dB / -0.2dB ± 0.5dB
Phono Over Load (No load)		
Phono (MM)	220mV	≥ 190mV
Phono (MC)	12.9mV	≥ 8mV
Dimensions (W × H × D)	17-1/2" × 5-5/16" × 15-11/16"	(443 × 134 × 398mm)
Weight	29lbs. 12oz.	(13.5kg)
Power Supplies		
North America area model	AC 120V,	60Hz
General model	AC 220/240V,	50/60Hz
Japan model	AC 100V,	50/60Hz
Power Consumption		
North America area model	600W	
General model	350VA	
Japan model	600W	

\* Input Sensitivity for General model are 2.3mV ± 0.3mV (MM) and 145μV ± 20μV (MC).

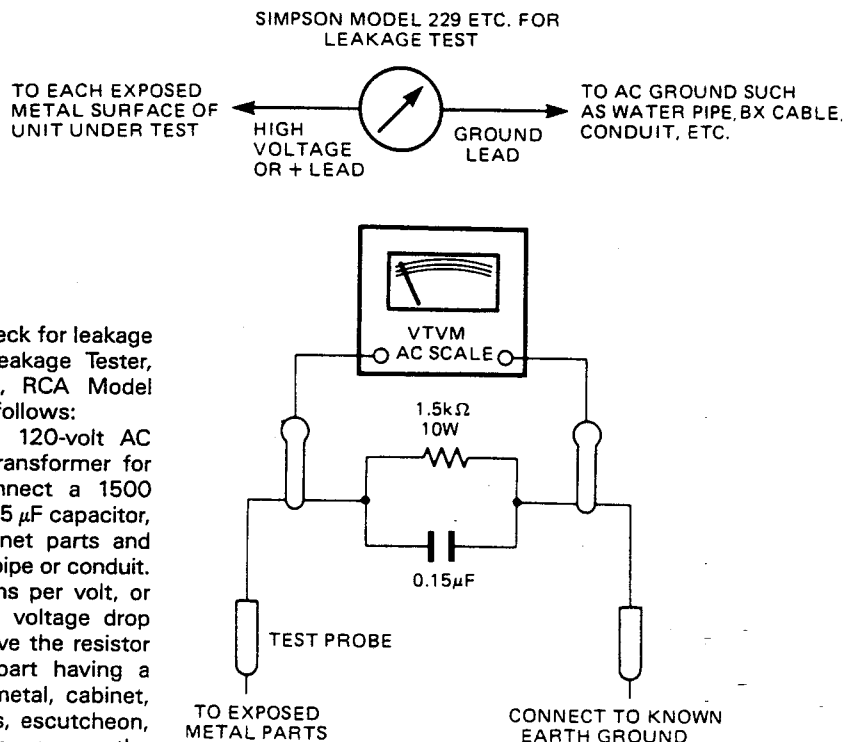
This specification is the target of servicing. But, there is a care that the specification is not applicable to the measurement condition and instrument.

Specifications and components subject to change without notice. Overall performance will be maintained or improved.

## LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A.)

Before returning the unit to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
2. Be sure that any protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. which were removed for servicing are properly reinstalled.
3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows: Plug the power cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 Ohm, 10-watt resistor paralleled by a 0.15 μF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 Ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.) A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



## DISASSEMBLY PROCEDURES (REFER TO PAGES 5 AND 21)

### ① CABINET TOP (131) REMOVAL

Remove 8 screws (A) and then remove the Cabinet Top (131).

### ② FRONT PANEL ASS'Y (AA) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step ①.
2. Remove 5 screws (B) and then remove the Front Panel Ass'y (AA).

### ③ MAIN P. C. BOARD (PCB-2) REMOVAL

1. Remove 10 screws (C) and then remove the Cabinet Bottom Ass'y (AC).
2. Remove the Front Panel Ass'y (AA), referring to the previous step ②.
3. Loosen 4 hexagon-socket-head screws (D) and pull out the Shaft Ass'y (BB) with the Rotary Knob Ass'y (AD).
4. Remove 24 screws (E) and a plastic rivet (F) and then remove the Cabinet Back Ass'y (AB).  
If necessary, unsolder the lead wires from the Power Transformers (T1 and T2).
5. Open the lid of connectors (CN101 and CN102) on the Main P. C. Board (PCB-2) and then disconnect the lead wires.
6. Remove 4 screws (G) and then remove the Main P. C. Board (PCB-2) with the Heat Sinks (177). At this time, unsolder the lead wires connected to the Main P. C. Board (PCB-2).

### ④ POWER SWITCH P. C. BOARD (PCB-3) REMOVAL

1. Remove the Front Panel Ass'y (AA), referring to the previous step ②.
2. Pull out the Push Button (146) and Shaft (214).
3. Remove 3 screws (H) and then remove the Power Switch P. C. Board (PCB-3). If necessary unsolder the lead wires.

### ⑤ MAIN DRIVER P. C. BOARD (PCB-1) REMOVAL

1. Remove the Main P. C. Board (PCB-2), referring to the previous step ③.
2. Remove 2 screws (I) and then remove the Main Driver P. C. Board (PCB-1).  
If necessary unsolder the lead wires.

### ⑥ EQUALIZER P. C. BOARD (PCB-11) REMOVAL

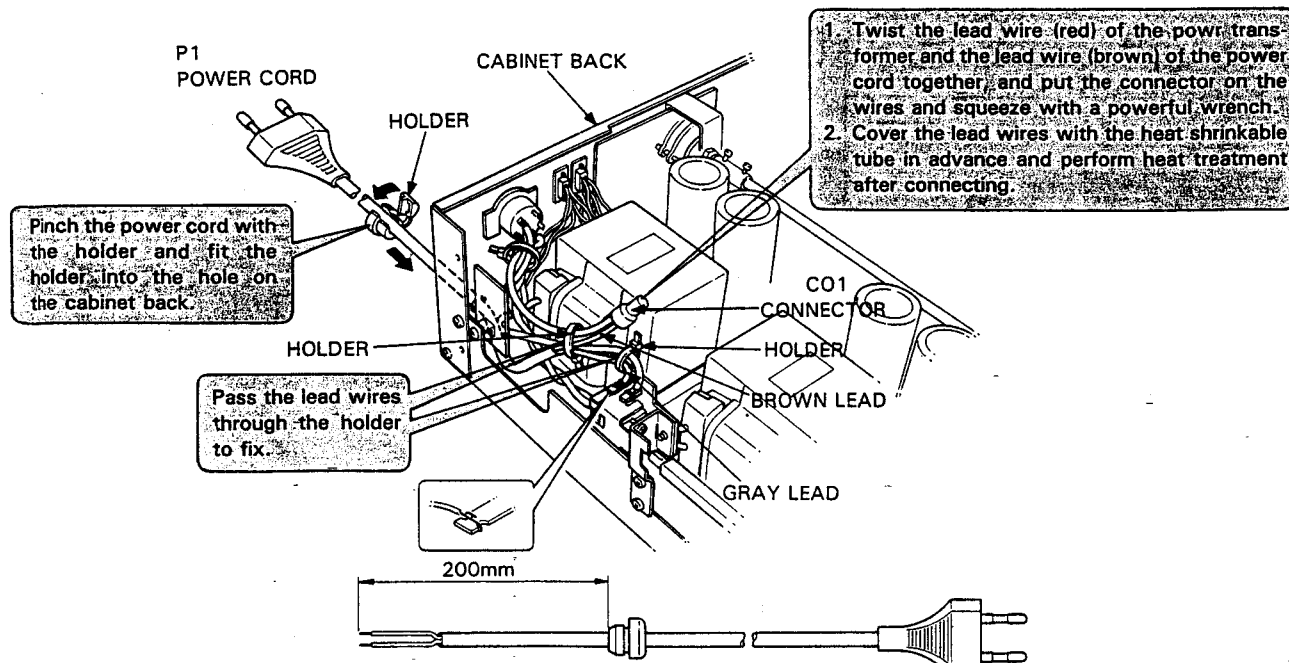
1. Remove the Cabinet Back Ass'y (AB), referring to the previous step ③.
2. Remove a screw (J) and a plastic rivet (K) and then remove the Equalizer P. C. Board (PCB-11).  
If necessary unsolder the lead wires.

### ⑦ TONE 1 P. C. BOARD (PCB-5) REMOVAL

1. Remove the Cabinet Bottom Ass'y (AC), referring to the previous step ③-1.
2. Remove the Front Panel Ass'y (AA), referring to the previous step ②.
3. Pull out the Cap. Trim Rotary Knob (151) and remove 4 hexagon-nuts (L) and then remove the Capacitance Trim P. C. Board (PCB-8).
4. Pull out Volume Rotary Knob (150) and remove a hexagon-nut (M) and then remove the Volume P. C. Board (PCB-7).
5. Remove 2 screws (N) and then remove the Push Switch (SW9, cartridge).
6. Straighten the catches fixing the 4/8Ω LED P. C. Board (PCB-9) and then remove it.
7. Remove the metal fixture (O) fixing the Headphone P. C. Board (PCB-12) and then remove it.
8. Pull out the Push Button (146) and Shaft (214).
9. Pull out the Push Button Ass'y (AE).
10. Pull out the 6 Rotary Knob Ass'ys (AD).
11. Loosen 4 hexagon-socket-head screws (D) and pull out the Shaft Ass'y (BB) with the Rotary Knob Ass'y (AD).
12. Remove 8 screws (P) and then remove the Chassis Ass'y (BA) with the Tone 1 and Tone 2 P. C. Board (PCB-5 and PCB-6).
13. Remove 4 screws (Q) and then remove the Tone 2 P. C. Board (PCB-6).  
If necessary unsolder the lead wires.
14. Remove 6 hexagon-nuts (R) and then remove the Tone 1 P. C. Board (PCB-5).  
If necessary unsolder the lead wires.

## POWER CORD REPLACEMENT (FOR SERVICE ENGINEERS OTHER THAN NOTRH AMERICA)

In order to prevent fire or shock hazard when replacing the power cord, follow the procedure below to replace the parts with the standard supply parts.



## ALIGNMENT PROCEDURES (REFER TO PAGE 8 THROUGH 11 AND 20)

- **Conditions:**
- Set the Function selector to the "aux" position.
  - Set the Volume control to minimum.
  - Set the Speaker selector to the "1 + 2" position.
  - Set the Speaker Operating Mode switch to the "8Ω" position.
  - Make the adjustment at a room temperature of 77°F (25°C).
  - After the Power switch is pushed on, wait for 30 minutes before measuring to be sure of the most stable operation.

### ■ DC BALANCE ADJUSTMENT

Step	Connection Equipments	Adjustment	For
1	Connect the Digital Volt Meter to speaker terminal (L ch).	VR401	$0 \pm 10\text{mV}$
2	Connect the Digital Volt Meter to speaker terminal (R ch).	VR402	$0 \pm 10\text{mV}$

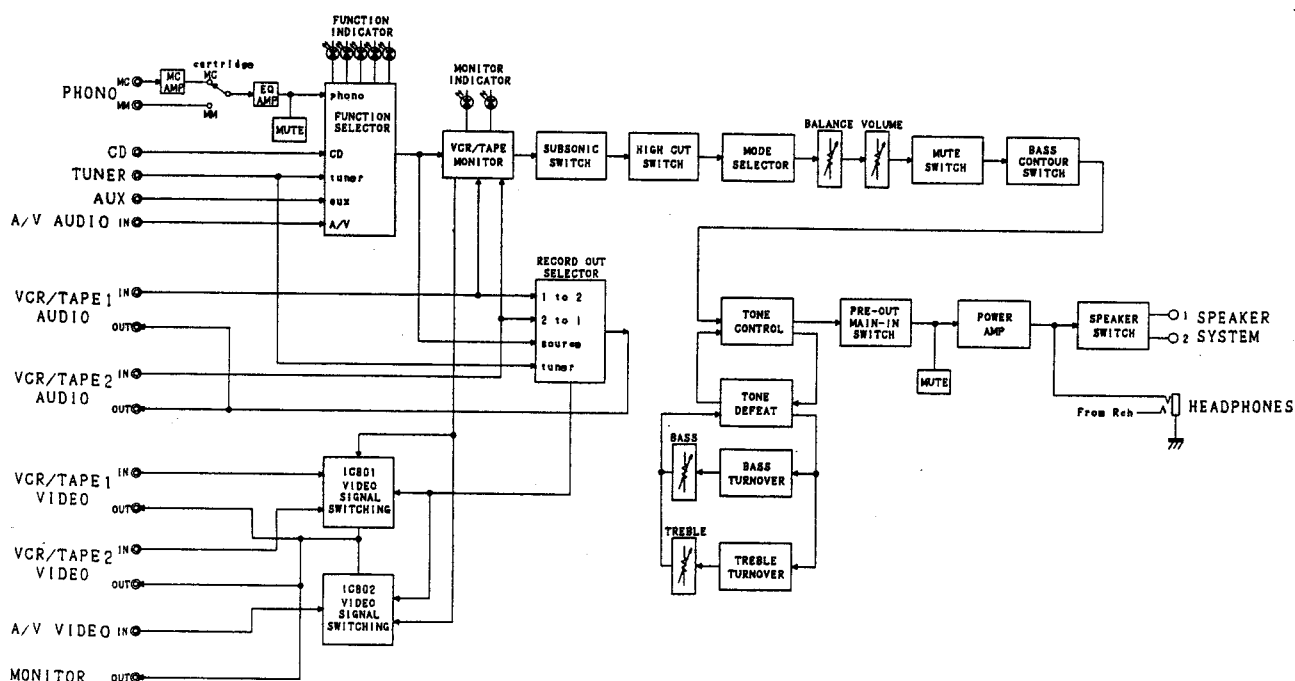
### ■ IDLING CURRENT ADJUSTMENT

Step	Connection Equipments	Adjustment	For
1	Connect the Digital Volt Meter to TP1 and TP2.	VR403	28mV
2	Connect the Digital Volt Meter to TP3 and TP4.	VR404	28mV

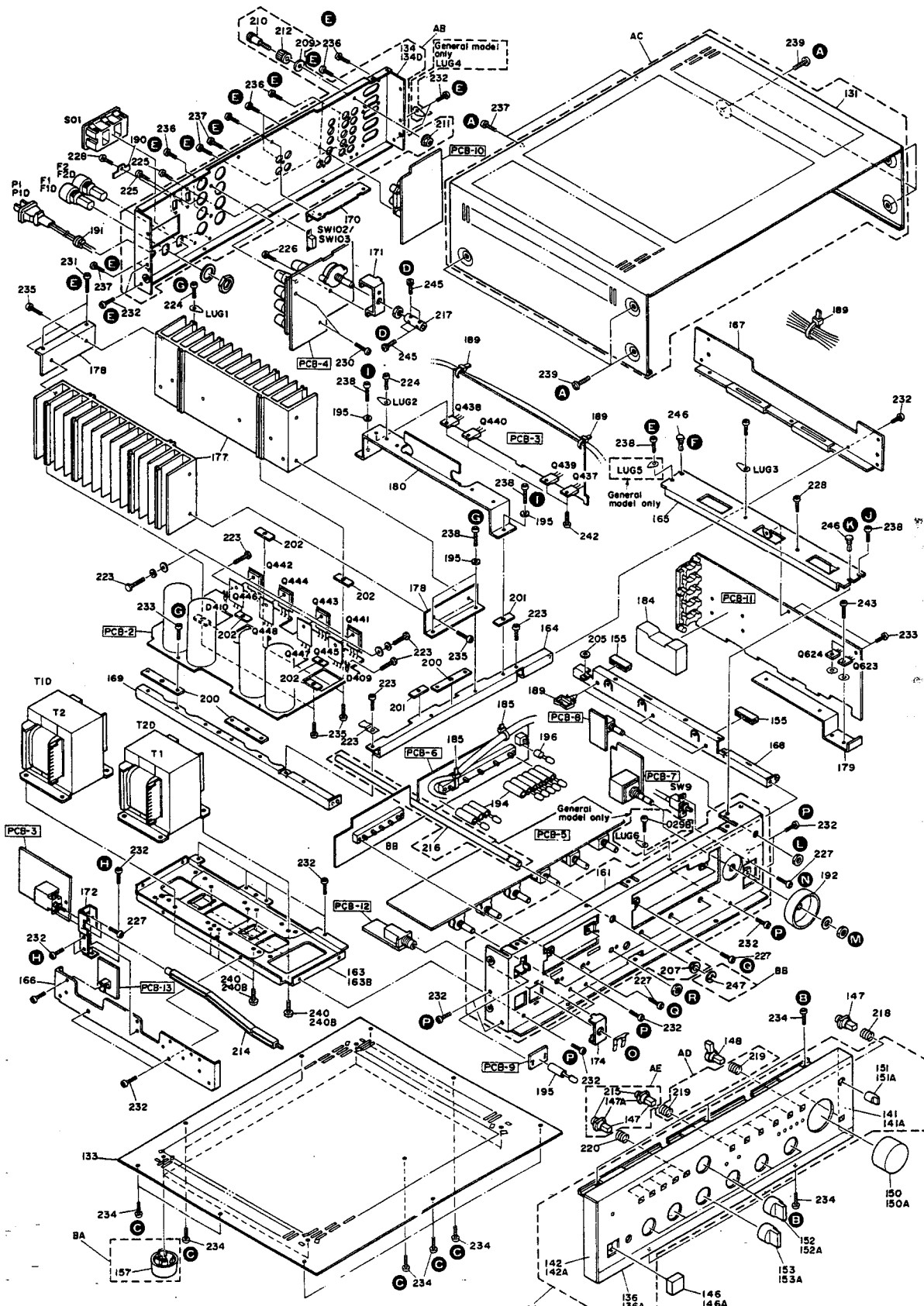
### ■ IDLING CURRENT CONFIRMATION

Step	Connection Equipments	For
1	Connect the Digital Volt Meter to TP5 and TP6.	$50\text{mV} \pm 5\text{mV}$
2	Connect the Digital Volt Meter to TP7 and TP8.	$50\text{mV} \pm 5\text{mV}$
3	Connect the Digital Volt Meter to TP9 and TP10.	$50\text{mV} \pm 5\text{mV}$
4	Connect the Digital Volt Meter to TP11 and TP12.	$50\text{mV} \pm 5\text{mV}$

## BLOCK DIAGRAM



## GENERAL UNIT EXPLODED VIEW



A

B

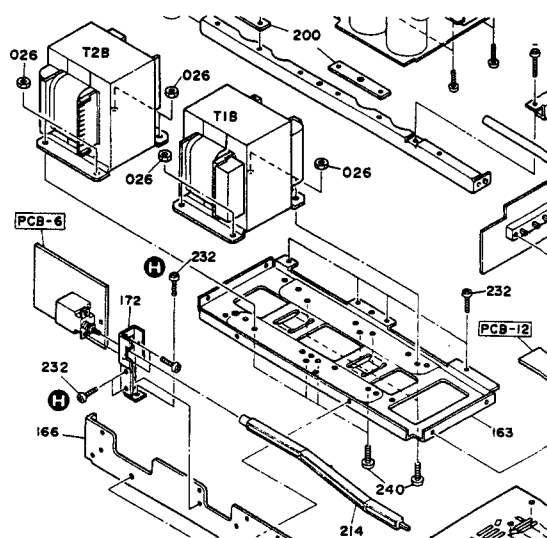
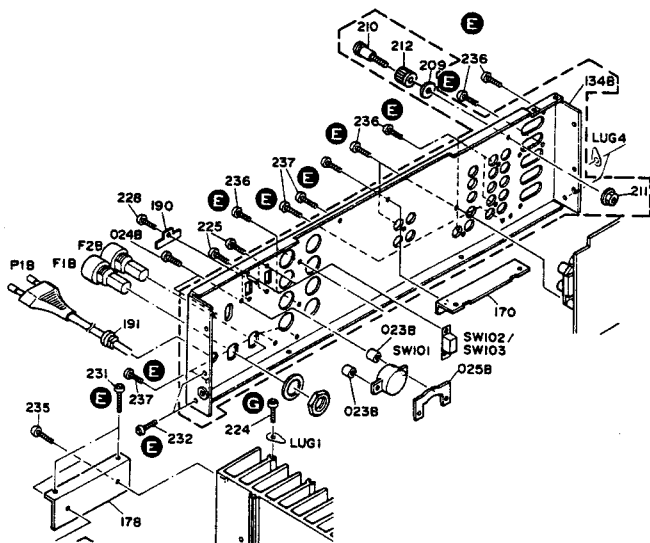
C

D

E

**GENERAL UNIT**

EXPLODED VIEW (for General model)

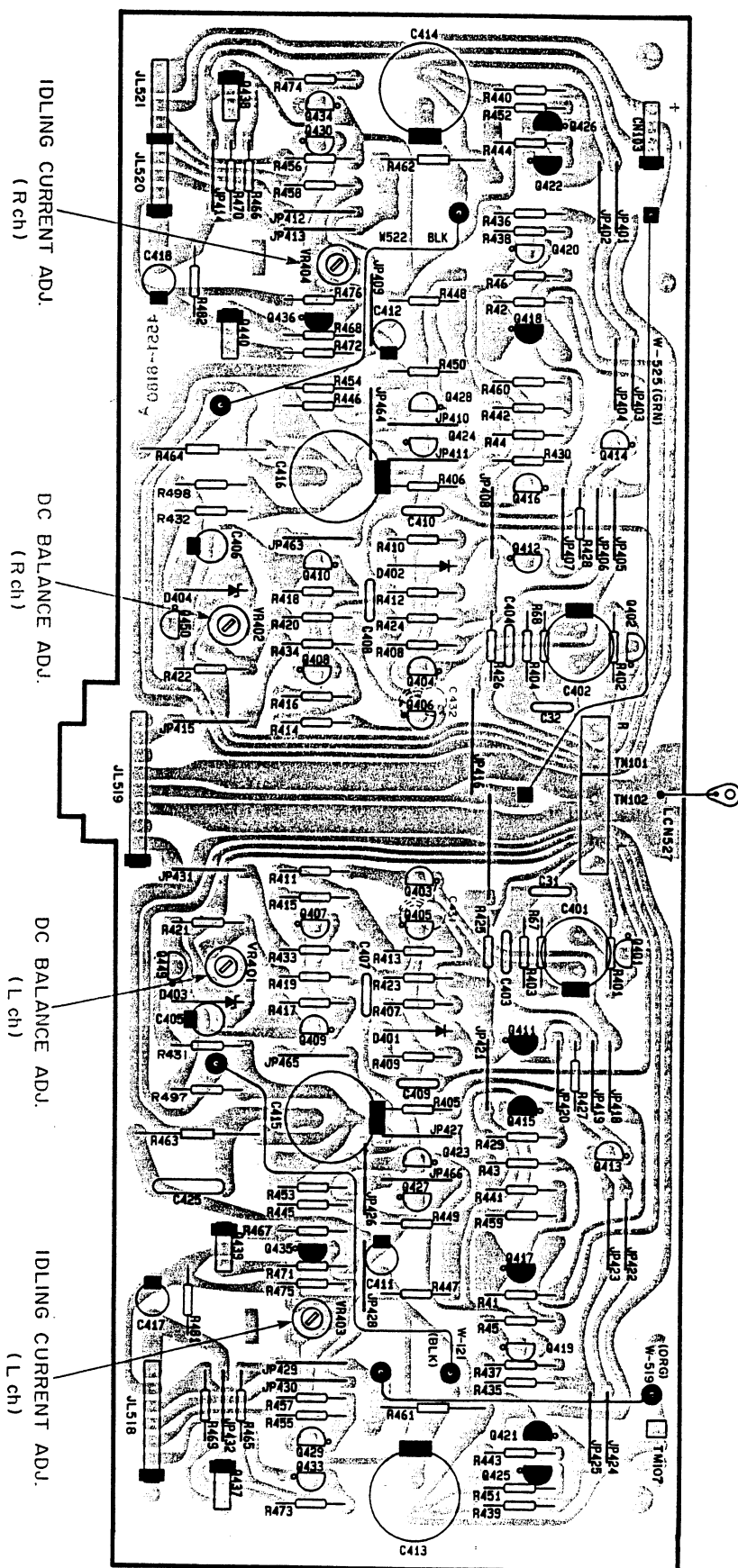
**PARTS LIST**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
AA	A443-PM665S2A	FRONT PANEL ASS'Y (UA) (G)	131	1414-10401	CABINET TOP
AAA	A443-PM665S2B	FRONT PANEL ASS'Y (BK)	133	1423-03101	CABINET BOTTOM
AAC	A443-PM665S2C	FRONT PANEL ASS'Y (GB)	134	1424-22804	CABINET BACK (UA) (BK)
AAD	A443-PM665S2D	FRONT PANEL ASS'Y (N)	134B	1424-22806	CABINET BACK (G) (GB)
AB	A424-PM665S2A	CABINET BACK ASS'Y (UA) (BK)	134D	1424-22805	CABINET BACK (N)
ABB	A424-PM665S2B	CABINET BACK ASS'Y (G)	136	1443-10903	FRONT PANEL (UA) (G)
ABC	A424-PM665S2C	CABINET BACK ASS'Y (GB)	136A	1443-10904	FRONT PANEL (BK) (GB) (N)
ABD	A424-PM665S2D	CABINET BACK ASS'Y (N)	138	1513-09501	PANEL, PLATE
AC	A423-PM665S2A	CABINET BOTTOM ASS'Y (UA) (BK) (N)	139	1531-11301	PANEL, WINDOW
ACB	A423-PM665S2B	CABINET BOTTOM ASS'Y (G)	141	1562-01602	FRAME RIGHT (UA) (G)
ACC	A423-PM665S2C	CABINET BOTTOM ASS'Y (GB)	141A	1562-01603	FRAME RIGHT (BK) (GB) (N)
AD	A630-PM665S2A	ROTARY KNOB ASS'Y (UA) (G)	142	1562-01702	FRAME LEFT (UA) (G)
ADA	A630-PM665S2B	ROTARY KNOB ASS'Y (BK)	142A	1562-01703	FRAME LEFT (BK) (GB) (N)
ADC	A630-PM665S2C	ROTARY KNOB ASS'Y (GB)	144	1732-02401	INDICATOR
ADD	A630-PM665S2D	ROTARY KNOB ASS'Y (N)	146	1660-00401	PUSH BUTTON, POWER (UA) (G)
AE	A662-PM665S2A	PUSH BUTTON ASS'Y (UA) (G)	146A	1660-00403	PUSH BUTTON, POWER (BK) (GB) (N)
AEA	A662-PM665S2B	PUSH BUTTON ASS'Y (BK)	147	1662-05701VN	PUSH BUTTON (UA) (G)
AEC	A662-PM665S2C	PUSH BUTTON ASS'Y (GB)	147A	1662-05702	PUSH BUTTON (BK) (GB) (N)
AED	A662-PM665S2D	PUSH BUTTON ASS'Y (N)	148	1662-18101	PUSH BUTTON, MUTE
BA	B211-PM665S2A	CHASSIS ASS'Y	150	1630-02901	ROTARY KNOB, VOLUME (UA) (G)
BB	B601-PM665S2A	SHAFT ASS'Y	150A	1630-02903	ROTARY KNOB, VOLUME (BK) (GB) (N)
022B	1756-03108	LABEL (G) (GB)	151	1634-04501	ROTARY KNOB, CAPTRIM (UA) (G)
023B	2132-7116	SPACER (G) (GB)	151A	1634-04503	ROTARY KNOB, CAPTRIM (BK) (GB) (N)
023D	2440-60	SPECIAL NUT (G) (GB)	152	1630-02801	ROTARY KNOB, FUCTION SWITCH (UA) (G)
024B	2327-R0130124	SCREW (G) (GB)	152A	1630-02803	ROTARY KNOB, FUCTION SWITCH (BK) (GB) (N)
025B	2440-7017	SPECIAL NUT (G) (GB)	153	1630-02801	ROTARY KNOB (UA) (G)
026B	2440-60	SPECIAL NUT (G) (GB)	153A	1630-02803	ROTARY KNOB (BK) (GB) (N)
029B	2347-300526	SCREW (G) (GB)			
113	1751-01018	SERIAL LABEL			
115	1751-01018	LABEL (UA) (BK)			
117	1756-CSA	LABEL (UA) (BK)			

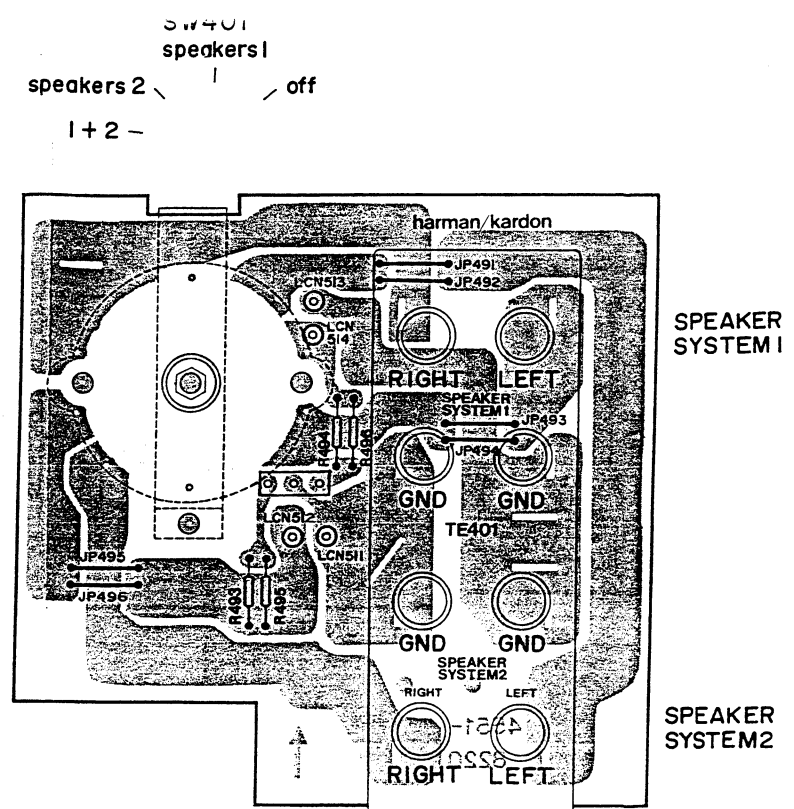
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	
155	1568-00301	FRAME	242	2557-301029	SCREW	
157	1319-0139	LEG	243	2557-301029	SCREW	
161	2211-7294	CHASSIS	245	2396-300549	SCREW	
163	2219-8036	METAL FITTG, TRANS <b>UA</b> <b>BK</b>	246	2459-3003511	PLASTIC RIVET	
163B	2219-8007	METAL FITTG, TRANS <b>G</b> <b>GB</b> <b>N</b>	247	2461-501	STOPPER, E	
164	2219-8037	METAL FITTG, H.CENTER	248	2440-7016	SPECIAL NUT	
165	2219-8009	METAL FITTG, EQ $\Delta$ P1	4161-71151	CORD W/PLUG <b>UA</b> <b>BK</b>		
166	2219-8010	METAL FITTG, TRANS SIDE $\Delta$ P1B	4161-7256	CORD W/PLUG <b>G</b> <b>GB</b>		
167	2219-8011	METAL FITTG, EQ SIDE $\Delta$ P1D	4161-71148	CORD W/PLUG <b>N</b>		
168	2219-8038	METAL FITTG, EQ CENTER $\Delta$ F1	5732-502029	FUSE, (5A) <b>UA</b> <b>BK</b>		
169	2219-8013	METAL FITTG, TRANS CENTER $\Delta$ F1B	5732-252030	FUSE, (5A) <b>G</b> <b>GB</b>		
170	2219-8040	METAL FITTG, MAIN HEAT $\Delta$ F1D	5732-502050	FUSE, (5A) <b>N</b>		
171	2219-8039	METAL FITTG $\Delta$ F2	5732-502029	FUSE, (5A) <b>UA</b> <b>BK</b>		
172	2219-8034	METAL FITTG, POWER SWITCH $\Delta$ F2B	5732-252030	FUSE, (5A) <b>G</b> <b>GB</b>		
174	2219-7879	METAL FITTG, H/P $\Delta$ F2D	5732-502050	FUSE, (5A) <b>N</b>		
175	2219-7879	METAL FITTG, 4/8 $\Omega$ PCB $\Delta$ S01	4474-156	SOCKET <b>UA</b> <b>BK</b> <b>N</b>		
177	2222-7180	HEAT SINK, MAIN $\Delta$ T1	5584-S05	XFORMER, POWER <b>UA</b> <b>BK</b>		
178	2222-7182	HEAT SINK, MAIN PCB $\Delta$ T1B	5584-S06	XFORMER, POWER <b>G</b> <b>GB</b>		
179	2222-7183	HEAT SINK, EQ $\Delta$ T1D	5584-S07	XFORMER, POWER <b>N</b>		
180	2222-7181	HEAT SINK, DRIVER $\Delta$ T2	5584-S05	XFORMER, POWER <b>UA</b> <b>BK</b>		
181	2222-7229	HEAT SINK, AV PCB $\Delta$ T2B	5584-S06	XFORMER, POWER <b>G</b> <b>GB</b>		
183	2240-7141	HOLDER <b>UA</b> <b>G</b>	$\Delta$ T2D	5584-S07	XFORMER, POWER <b>N</b>	
183A	2240-7202	HOLDER <b>BK</b> <b>GB</b> <b>N</b>	$\Delta$ SW101	4411-102729	ROTARY SWITCH, VOLTAGE	
184	2240-7183	HOLDER, MC			SELECTOR <b>G</b> <b>GB</b>	
185	2240-7120	HOLDER, WIRING	SW9	4422-70211	REMOTE SWITCH	
186	2240-7209	HOLDER, POWER	LUG1	4211-5005	LUG	
187	2240-7315	HOLDER, LED	LUG2	4211-5005	LUG	
188	2240-7316	HOLDER, PANEL	LUG3	4211-5005	LUG	
189	2240-7239	HOLDER, WIRING	LUG4	4211-5005	LUG <b>G</b> <b>GB</b>	
190	2240-7311	HOLDER, 4/8 SWITCH HOLD	LUG5	4211-5005	LUG <b>G</b> <b>GB</b>	
191	2240-364	HOLDER, AC CORD	LUG6	4211-5005	LUG <b>G</b> <b>GB</b>	
192	2240-7240	HOLDER, VOLUME	Q437	5611-1306(O)or(Y)	XISTOR, PNP R	
193	2111-11758	FELT	Q438	5611-1306(O)or(Y)	XISTOR, PNP R	
194	2132-7126	SPACER, LED	Q439	5613-3928(O)or(Y)	XISTOR, NPN R	
195	2132-7136	SPACER, HEAT SINK	Q440	5613-3928(O)or(Y)	XISTOR, NPN R	
196	2132-01702	SPACER, MUTE LED	Q441	5613-3281(O)or(R)	XISTOR, NPN R	
198	2112-0040	SPONGE, LED	Q442	5613-3281(O)or(R)	XISTOR, NPN R	
199	2224-7120	INSULATOR, AV HEAT	Q443	5613-3281(O)or(R)	XISTOR, NPN R	
200	2224-7100	INSULATOR, MAIN PCB	Q444	5613-3281(O)or(R)	XISTOR, NPN R	
201	2224-7101	INSULATOR, DRIVER MAIN	Q445	5611-1302(O)or(R)	XISTOR, PNP R	
202	2224-7101	INSULATOR, MAIN PCB	Q446	5611-1302(O)or(R)	XISTOR, PNP R	
203	2224-7118	INSULATOR, AV PCB	Q447	5611-1302(O)or(R)	XISTOR, PNP R	
204	2402-0374	WASHER	Q448	5611-1302(O)or(R)	XISTOR, PNP R	
205	2402-0374	WASHER	Q623	5613-3928(O)or(Y)	XISTOR, NPN R	
207	2410-100	SPECIAL WASHER	Q624	5611-1306(O)or(Y)	XISTOR, PNP R	
209	2410-7005	SPECIAL WASHER	D409	5641-MV12YM	VARISTOR	
210	2440-7011	SPECIAL NUT	D410	5641-MV12YM	VARISTOR	
211	2440-7016	SPECIAL NUT				
212	2310-7015	SPECIAL SCREW				
214	2601-7150	SHAFT, POWER				
215	2601-7077	SHAFT				
216	2601-7151	SHAFT, SP(AL)				
217	2601-7153	SHAFT, SP				
218	2651-2101710	SPRING				
219	2651-110518	SPRING				
220	2651-210189	SPRING				
222	2459-3005511	PRASTIC RIVET				
223	2320-34	SPECIAL SCREW				
224	2340-7003	SPECIAL SCREW				
225	2327-260549	SCREW				
226	2327-R0130064	SCREW				
227	2327-R0130064	SCREW				
228	2327-R0130064	SCREW				
229	2327-R0130022	SCREW				
230	2343-300826	SCREW				
232	2347-R0130062	SCREW				
233	2347-R0130062	SCREW				
234	2347-R0130062	SCREW				
235	2347-R0130084	SCREW				
236	2347-R0130084	SCREW				
237	2347-R0130084	SCREW				
238	2347-R0130104	SCREW				
239	2347-R0140064	SCREW				
240	2347-R0140082	SCREW <b>UA</b> <b>BK</b>				
240B	2347-R0140102	SCREW <b>G</b> <b>GB</b> <b>N</b>				

## P. C. BOARDS

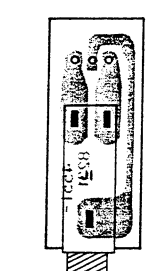
**PCB-1**      **Main Driver P. C. Board**





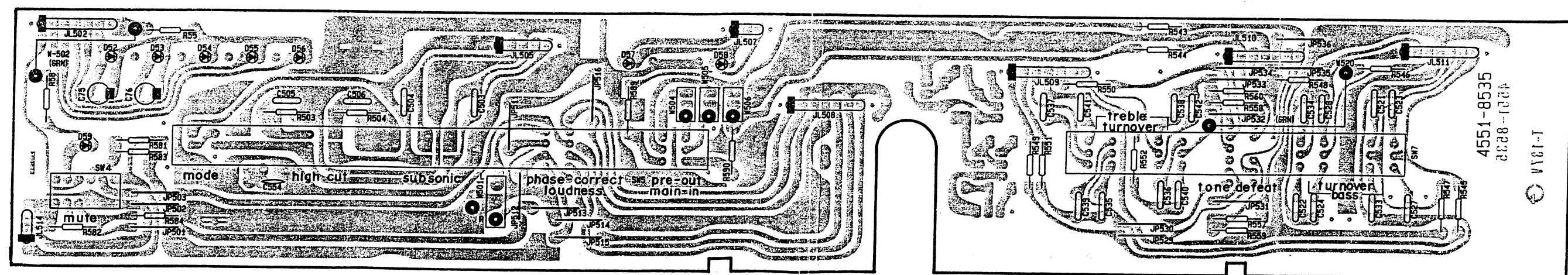
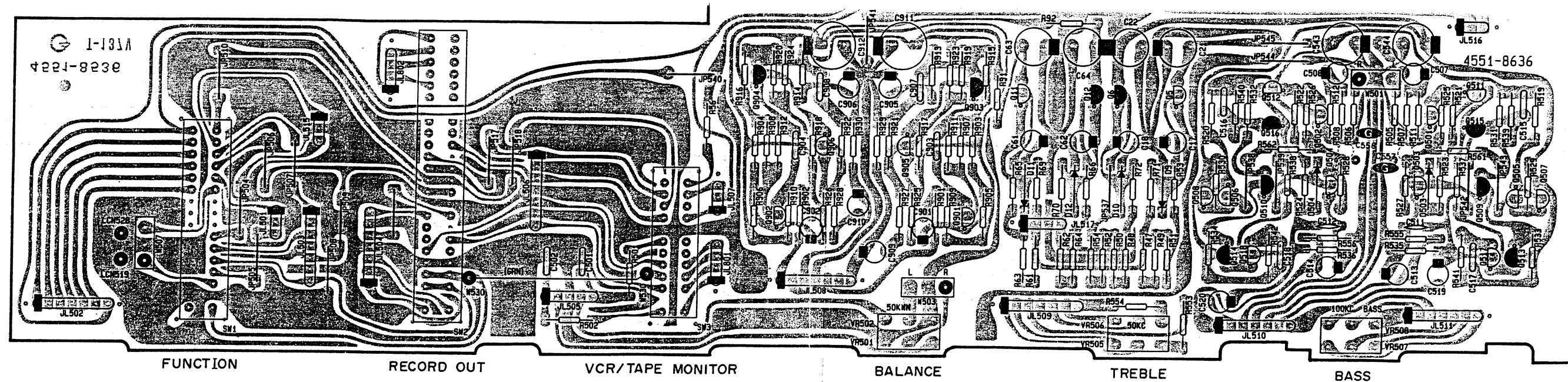


**PCB-12**      **Headphone P. C Board**

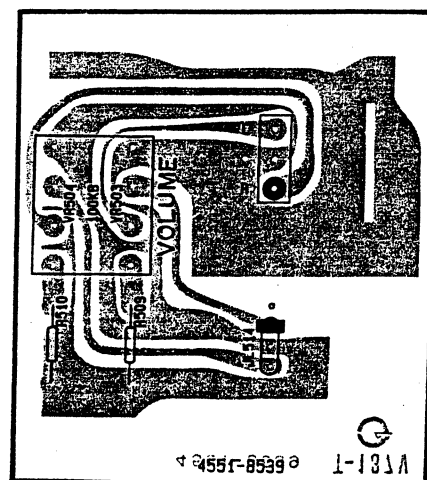


## HEADPHONES

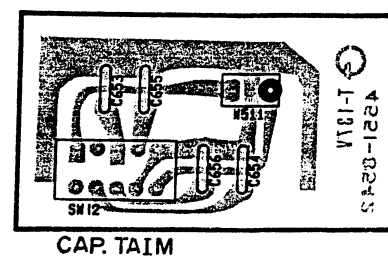
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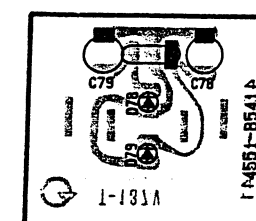
PCB-7 Volume P. C. Board



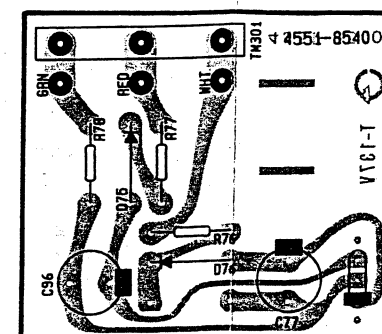
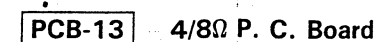
PCB-8 Capacitance Trim P. C. Board



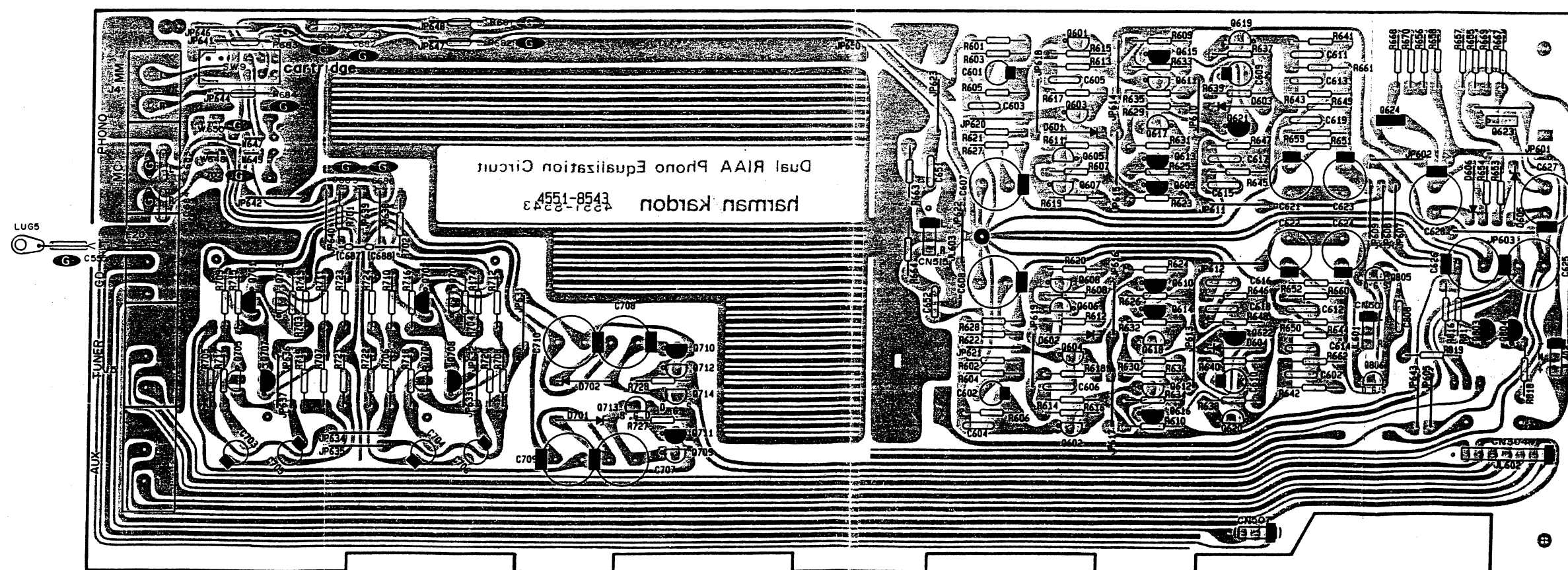
PCB-9 4/8Ω LED P. C. Board







**PCB-11**      **Equalizer P. C. Board**



## ELECTRICAL PARTS LIST

771	C401	5345-107B0951	CAP, MINI ELE	100μ/10V	795	ΔR443	5102-2214713	RES, FUSE	220	755	Q437	5611-1306(O)or(Y)	XISTOR, PNP R	849	R5	5134-103J25P	RES, CBN 1/4P	10K				
771	C402	5345-107B0951	CAP, MINI ELE	100μ/10V	795	ΔR444	5102-2214713	RES, FUSE	220	755	Q438	5611-1306(O)or(Y)	XISTOR, PNP R	850	R6	5134-222J25P	RES, CBN 1/4P	2.2K				
776	C403	5359-2715851	CAP, PPP	270p	795	ΔR445	5102-2214713	RES, FUSE	220	752	Q439	5613-3298(O)or(Y)	XISTOR, NPN R	851	R7	5134-473J25P	RES, CBN 1/4P	47K				
776	C404	5359-2715851	CAP, PPP	270p	795	ΔR446	5102-2214713	RES, FUSE	220	752	Q440	5613-3298(O)or(Y)	XISTOR, NPN R	852	R8	5134-334J25P	RES, CBN 1/4P	330K				
773	C405	5345-337D041	CAP, MINI ELE	330μ/25V	804	R447	5174-153381	RES, MTL 1/4	15K	742	Q449	5611-970(BL)	XISTOR, PNP R	853	R9	5134-104J25P	RES, CBN 1/4P	100K				
773	C406	5345-337D041	CAP, MINI ELE	330μ/25V	804	R448	5174-153381	RES, MTL 1/4	15K	742	Q450	5611-970(BL)	XISTOR, PNP R	853	R10	5134-104J25P	RES, CBN 1/4P	100K				
780	C407	5353-040934	CAP, MCA	4p	804	R449	5174-153381	RES, MTL 1/4	15K	DIODES								849	R11	5134-103J25P	RES, CBN 1/4P	10K
780	C408	5353-040934	CAP, MCA	4p	804	R450	5174-153381	RES, MTL 1/4	15K	763	D401	5631-1S2473	DIODE, DET	854	R12	5134-225J25P	RES, CBN 1/4P	2.2M				
781	C409	5353-680534	CAP, MCA	68p	795	ΔR451	5102-2214713	RES, FUSE	220	763	D402	5631-1S2473	DIODE, DET	855	R13	5134-684J25P	RES, CBN 1/4P	680K				
781	C410	5353-680534	CAP, MCA	68p	795	ΔR452	5102-2214713	RES, FUSE	220	764	D403	5635-HZ15-2L	DIODE, ZENER	856	R14	5134-184J25P	RES, CBN 1/4P	180K				
772	C411	5345-106C0951	CAP, MINI ELE	10μ/16V	795	ΔR453	5102-2214713	RES, FUSE	220	764	D404	5635-HZ15-2L	DIODE, ZENER	853	R15	5134-104J25P	RES, CBN 1/4P	100K				
772	C412	5345-106C0951	CAP, MINI ELE	10μ/16V	795	ΔR454	5102-2214713	RES, FUSE	220	CONTROLS								851	R16	5134-473J25P	RES, CBN 1/4P	47K
774	C413	5345-477J0962	CAP, MINI ELE	470μ/100V	819	R455	5134-561J25P	RES, CBN 1/4P	560	791	VR401	5101-6838875	RES, SEMI FIX	68K	857	R17	5134-223J25P	RES, CBN 1/4P	22K			
774	C414	5345-477J0962	CAP, MINI ELE	470μ/100V	819	R456	5134-561J25P	RES, CBN 1/4P	560	791	VR402	5101-6838875	RES, SEMI FIX	68K	851	R18	5134-473J25P	RES, CBN 1/4P	47K			
774	C415	5345-477J0962	CAP, MINI ELE	470μ/100V	820	R457	5134-471J25P	RES, CBN 1/4P	470	792	VR403	5101-4717675	RES, SEMI FIX	470	858	R19	5134-152J25P	RES, CBN 1/4P	1.5K			
774	C416	5345-477J0962	CAP, MINI ELE	470μ/100V	820	R458	5134-471J25P	RES, CBN 1/4P	470	792	VR403	5101-4717675	RES, SEMI FIX	470	857	R20	5134-223J25P	RES, CBN 1/4P	22K			
772	C417	5345-106C0951	CAP, MINI ELE	10μ/16V	807	R459	5134-131J25P	RES, CBN 1/4P	130	792	VR404	5101-4717675	RES, SEMI FIX	470	859	R21	5134-393J25P	RES, CBN 1/4P	39K			
772	C418	5345-106C0951	CAP, MINI ELE	10μ/16V	807	R460	5134-131J25P	RES, CBN 1/4P	130	MISCELLANEOUS								849	R22	5134-103J25P	RES, CBN 1/4P	10K
067B	C431	5361-101KB	CAP, CER	100p	794	ΔR461	5102-1005711	RES, FUSE	10	943	CN103	4443-030185	CONNECTOR	857	R23	5134-223J25P	RES, CBN 1/4P	22K				
067B	C432	5361-101KB	CAP, CER	100p	794	ΔR462	5102-1005711	RES, FUSE	10	789	LCN527	4163-0107020	CONNECTOR W/W	851	R24	5134-473J25P	RES, CBN 1/4P	47K				
066B	C557	5361-101KB	CAP, CER	100p	794	ΔR463	5102-1005711	RES, FUSE	10	967	JL518	4242-R0307201	JUMPER LEAD	882	ΔR25	5102-6804713	RES, FUSE	68				
066B	C558	5361-101KB	CAP, CER	100p	794	ΔR464	5102-1005711	RES, FUSE	10	967	JL519	4242-R0307201	JUMPER LEAD	881	R26	5135-101J50P	RES, CBN 1/2P	100				
RESISTORS																		880	R27	5134-682J25P	RES, CBN 1/4P	6.8K
828	R41	5134-223J25P	RES, CBN 1/4P	22K	796	ΔR465	5102-1014713	RES, FUSE	100	968	JL520	4242-R0304201	JUMPER LEAD	860	R29	5134-562J25P	RES, CBN 1/4P	5.6K				
828	R42	5134-223J25P	RES, CBN 1/4P	22K	796	ΔR466	5102-1014713	RES, FUSE	100	968	JL521	4242-R0304201	JUMPER LEAD	860	R30	5134-562J25P	RES, CBN 1/4P	5.6K				
828	R43	5134-223J25P	RES, CBN 1/4P	22K	796	ΔR467	5102-1014713	RES, FUSE	100	947	TM101	4214-11021	TERMINAL	860	R31	5134-562J25P	RES, CBN 1/4P	5.6K				
828	R44	5134-223J25P	RES, CBN 1/4P	22K	796	ΔR468	5102-1014713	RES, FUSE	100	948	TM102	4214-11031	TERMINAL	860	R32	5134-562J25P	RES, CBN 1/4P	5.6K				
828	R45	5134-223J25P	RES, CBN 1/4P	22K	798	ΔR469	5102-3R3579	RES, FUSE	3.3	950	TM107	4214-11013	TERMINAL	844	R33	5134-152J25P	RES, CBN 1/4P	1.5K				
828	R46	5134-223J25P	RES, CBN 1/4P	22K	798	ΔR470	5102-3R3579	RES, FUSE	3.3	PCB-2 MAIN P.C. BOARD								844	R34	5134-152J25P	RES, CBN 1/4P	1.5K
847	R67	5134-105J25P	RES, CBN 1/4P	1M	798	ΔR471	5102-3R3579	RES, FUSE	3.3	864	C3	5352-1041957	CAP, MTL	.1μ	860	R35	5134-562J25P	RES, CBN 1/4P	5.6K			
847	R68	5134-105J25P	RES, CBN 1/4P	1M	798	ΔR472	5102-3R3579	RES, FUSE	3.3	864	C4	5352-1041957	CAP, MTL	.1μ	846	R39	5134-472J25P	RES, CBN 1/4P	4.7K			
808	R401	5134-102J25P	RES, CBN 1/4P	1K	821	R473	5134-150J25P	RES, CBN 1/4P	15	864	C5	5352-1041957	CAP, MTL	.1μ	846	R40	5134-472J25P	RES, CBN 1/4P	4.7K			
808	R402	5134-102J25P	RES, CBN 1/4P	1K	821	R474	5134-150J25P	RES, CBN 1/4P	15	864	C6	5352-1041957	CAP, MTL	.1μ	850	R57	5134-222J25P	RES, CBN 1/4P	2.2K			
809	R403	5134-223J25P	RES, CBN 1/4P	22K	821	R475	5134-150J25P	RES, CBN 1/4P	15	870	ΔC7	5341-003HM828	CAP, ELE	8200μ/80V	845	R59	5134-102J25P	RES, CBN 1/4P	1K			
809	R404	5134-223J25P	RES, CBN 1/4P	22K	821	R476	5134-150J25P	RES, CBN 1/4P	15	870	ΔC8	5341-003HM828	CAP, ELE	8200μ/80V	860	R87	5134-562J25P	RES, CBN 1/4P	5.6K			
810	R405	5134-683J25P	RES, CBN 1/4P	68K	823	ΔR481	5102-8204713	RES, FUSE	82	870	ΔC9	5341-003HM828	CAP, ELE	8200μ/80V	860	R88	5134-562J25P	RES, CBN 1/4P	5.6K			
810	R406	5134-683J25P	RES, CBN 1/4P	68K	823	ΔR482	5102-8204713	RES, FUSE	82	870	ΔC10	5341-003HM828	CAP, ELE	8200μ/80V	860	R89	5134-562J25P	RES, CBN 1/4P	5.6K			
799	ΔR407	5102-1824715	RES, FUSE	1.8K	827	R497	5134-273J25P	RES, CBN 1/4P	27K	839	C11	5345-336B0951	CAP, MINI ELE	33μ/10V	860	R90	5134-562J25P	RES, CBN 1/4P	5.6K			
799	ΔR408	5102-1824715	RES, FUSE	1.8K	827	R498	5134-273J25P	RES, CBN 1/4P	27K	840	C13	5354-334593	CAP, MYL	.33μ	822	R477	5134-100J25P	RES, CBN 1/4P	10			
799	ΔR409	5102-1824715	RES, FUSE	1.8K	TRANSISTORS					840	C14	5354-334593	CAP, MYL	.33μ	822	R478	5134-100J25P	RES, CBN 1/4P	10			
799	ΔR410	5102-																				

Ser. No.	Ref. No.	Part No.	Description
760	Q443	5611-1302(O)or(R)	XISTOR, PNP R
760	Q444	5611-1302(O)or(R)	XISTOR, PNP R
758	Q445	5613-3281(O)or(R)	XISTOR, NPN R
758	Q446	5613-3281(O)or(R)	XISTOR, NPN R
760	Q447	5611-1302(O)or(R)	XISTOR, PNP R
760	Q448	5611-1302(O)or(R)	XISTOR, PNP R

**DIODES**

836	D3	5632-DS135E	DIODE, RECT
836	D4	5632-DS135E	DIODE, RECT
835	D5	5635-HZ6A-2L	DIODE, ZENER
837	D6	5631-IS2473	DIODE, DET
874	D7	5635-HZ15-2L	DIODE, ZENER
872	D8	5631-IS2473	DIODE, DET
869	ΔD13	5685-D5FB20FI	SILICON, BRIG
869	ΔD14	5685-D5FB20FI	SILICON, BRIG
765	D405	5632-10DF2	DIODE, RECT
765	D406	5632-10DF2	DIODE, RECT
765	D407	5632-10DF2	DIODE, RECT
765	D408	5632-10DF2	DIODE, RECT
762	D409	5641-MV12YM	VARISTOR
762	D410	5641-MV12YM	VARISTOR

**COILS**

769	L401	5597-45502	CORE, BEADS
769	L402	5597-45502	CORE, BEADS
769	L403	5597-45502	CORE, BEADS
769	L404	5597-45502	CORE, BEADS
768	L405	5991-7165	SPRING COIL
768	L406	5991-7165	SPRING COIL

**MISCELLANEOUS**

779	LCN511	4163-0145024	CONNECTOR W/W
782	LCN512	4163-0145025	CONNECTOR W/W
783	LCN513	4163-0145026	CONNECTOR W/W
784	LCN514	4163-0145027	CONNECTOR W/W
788	LCN515	4163-0110024	CONNECTOR W/W
788	LCN516	4163-0110024	CONNECTOR W/W
945	CN101	4443-030185	CONNECTOR
945	CN102	4443-030185	CONNECTOR
949	TM103	4214-11033	TERMINAL
949	TM104	4214-11033	TERMINAL
946	TM105	4214-11021	TERMINAL
946	TM106	4214-11021	TERMINAL

**PCB-3 POWER SWITCH P.C. BOARD****CAPACITORS**

863	ΔC1	5352-1030959	CAP, MTL .01μ U BK
863B	ΔC1	5352-1030958	CAP, MTL .01μ G GB
863D	ΔC1	5352-1030961	CAP, MTL .01μ N

**RESISTORS**

042B	ΔR101	5135-335J50P	RES, CBN 1/2P 3.3M G GB
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**MISCELLANEOUS**

891	ΔSW8	4431-A027160	SWITCH, PUSH
928	TM202	4214-122	TERMINAL
928	TM203	4214-122	TERMINAL

Ser. No.	Ref. No.	Part No.	Description
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**PCB-4 SPEAKER P.C. BOARD****RESISTORS**

826	R493	5134-102J25P	RES, CBN 1/4P 1K
826	R494	5134-102J25P	RES, CBN 1/4P 1K
826	R495	5134-102J25P	RES, CBN 1/4P 1K
826	R496	5134-102J25P	RES, CBN 1/4P 1K

**MISCELLANEOUS**

927	TM901	4214-156	TERMINAL
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**PCB-5 TONE I P.C. BOARD****CAPACITORS**

729	C17	5345-337D041	CAP, MINI ELE 330μ/25V
729	C18	5345-337D041	CAP, MINI ELE 330μ/25V
730	C21	5345-227D041	CAP, MINI ELE 220μ/25V
730	C22	5345-227D041	CAP, MINI ELE 220μ/25V
731	C61	5345-107C041	CAP, MINI ELE 100μ/16V
731	C62	5345-107C041	CAP, MINI ELE 100μ/16V
730	C63	5345-227D041	CAP, MINI ELE 220μ/25V
730	C64	5345-227D041	CAP, MINI ELE 220μ/25V
664	C501	5353-181534	CAP, MCA 180p
664	C502	5353-181534	CAP, MCA 180p
660	C508	5345-106C0951	CAP, MINI ELE 10μ/16V
667	C511	5353-010934	CAP, MCA 1p
667	C512	5353-010934	CAP, MCA 1p
661	C513	5345-226D0951	CAP, MINI ELE 22μ/25V
661	C514	5345-226D0951	CAP, MINI ELE 22μ/25V
668	C515	5353-330534	CAP, MCA 33p
668	C516	5353-330534	CAP, MCA 33p
668	C517	5353-330534	CAP, MCA 33p
668	C518	5353-330534	CAP, MCA 33p
662	C519	5345-476C0951	CAP, MINI ELE 47μ/16V
662	C520	5345-476C0951	CAP, MINI ELE 47μ/16V
659	C543	5345-227D041	CAP, MINI ELE 220μ/25V
659	C544	5345-227D041	CAP, MINI ELE 220μ/25V
066B	C557	5361-101KB	CAP, CER 100p
066C	C557	5361-101KB	CAP, CER 100p
066B	C558	5361-101KB	CAP, CER 100p
066C	C558	5361-101KB	CAP, CER 100p
660	C507	5345-106C0951	CAP, MINI ELE 10μ/16V
625	C901	5345-104F0951	CAP, MINI ELE .1μ/50V
625	C902	5345-104F0951	CAP, MINI ELE .1μ/50V
629	C903	5354-154593	CAP, MYL .15μ
629	C904	5354-154593	CAP, MYL .15μ
627	C905	5345-107D045	CAP, MINI ELE 100μ/25V
627	C906	5345-107D045	CAP, MINI ELE 100μ/25V
630	C907	5354-334593	CAP, MYL .33μ
630	C908	5354-334593	CAP, MYL .33μ
626	C909	5345-224F0951	CAP, MINI ELE .22μ/50V
626	C910	5345-224F0951	CAP, MINI ELE .22μ/50V
624	C911	5345-227D041	CAP, MINI ELE 220μ/25V
624	C912	5345-227D041	CAP, MINI ELE 220μ/25V

**RESISTORS**

732	ΔR47	5102-1214715	RES, FUSE 120
732	ΔR48	5102-1214715	RES, FUSE 120
734	R49	5176-S010J271	RES, MTL 1/2 270
734	R50	5176-S010J271	RES, MTL 1/2 270
734	R51	5176-S010J271	RES, MTL 1/2 270
734	R52	5176-S010J271	RES, MTL 1/2 270
734	R53	5176-S010J271	RES, MTL 1/2 270
734	R54	5176-S010J271	RES, MTL 1/2 270
940	R56	5134-152J25P	RES, CBN 1/4P 1.5K
733	ΔR61	5102-3914715	RES, FUSE 390
733	ΔR62	5102-3914715	RES, FUSE 390
735	R63	5176-S010J391	RES, MTL 1/2 390
735	R64	5176-S010J391	RES, MTL 1/2 390
735	R65	5176-S010J391	RES, MTL 1/2 390
735	R66	5176-S010J391	RES, MTL 1/2 390
737	R69	5134-153J25P	RES, CBN 1/4P 15K

Ser. No.	Ref. No.	Part No.	Description
737	R70	5134-153J25P	RES, CBN 1/4P 15K
736	R71	5134-123J25P	RES, CBN 1/4P 12K
736	R72	5134-123J25P	RES, CBN 1/4P 12K
738	△R91	5102-1014715	RES, FUSE 100
738	△R92	5102-1014715	RES, FUSE 100
681	R501	5134-102J25P	RES, CBN 1/4P 1K
681	R502	5134-102J25P	RES, CBN 1/4P 1K
683	R505	5134-394J25P	RES, CBN 1/4P 390K
683	R506	5134-394J25P	RES, CBN 1/4P 390K
682	R507	5134-274J25P	RES, CBN 1/4P 270K
682	R508	5134-274J25P	RES, CBN 1/4P 270K
700	R511	5134-331J25P	RES, CBN 1/4P 330
700	R512	5134-331J25P	RES, CBN 1/4P 330
684	R519	5134-473J25P	RES, CBN 1/4P 47K
684	R520	5134-473J25P	RES, CBN 1/4P 47K
685	R521	5134-332J25P	RES, CBN 1/4P 3.3K
685	R522	5134-332J25P	RES, CBN 1/4P 3.3K
685	R523	5134-332J25P	RES, CBN 1/4P 3.3K
685	R524	5134-332J25P	RES, CBN 1/4P 3.3K
686	R525	5134-471J25P	RES, CBN 1/4P 470
686	R526	5134-471J25P	RES, CBN 1/4P 470
686	R527	5134-471J25P	RES, CBN 1/4P 470
686	R528	5134-471J25P	RES, CBN 1/4P 470
687	R529	5134-331J25P	RES, CBN 1/4P 330
687	R530	5134-331J25P	RES, CBN 1/4P 330
688	R531	5134-222J25P	RES, CBN 1/4P 2.2K
688	R532	5134-222J25P	RES, CBN 1/4P 2.2K
688	R533	5134-222J25P	RES, CBN 1/4P 2.2K
688	R534	5134-222J25P	RES, CBN 1/4P 2.2K
689	R535	5134-274J25P	RES, CBN 1/4P 270K
689	R536	5134-274J25P	RES, CBN 1/4P 270K
690	R537	5134-153J25P	RES, CBN 1/4P 15K
690	R538	5134-153J25P	RES, CBN 1/4P 15K
687	R539	5134-331J25P	RES, CBN 1/4P 330
687	R540	5134-331J25P	RES, CBN 1/4P 330
687	R541	5134-331J25P	RES, CBN 1/4P 330
687	R542	5134-331J25P	RES, CBN 1/4P 330
691	R553	5134-121J25P	RES, CBN 1/4P 120
691	R554	5134-121J25P	RES, CBN 1/4P 120
684	R555	5134-473J25P	RES, CBN 1/4P 47K
684	R556	5134-473J25P	RES, CBN 1/4P 47K
688	R561	5134-222J25P	RES, CBN 1/4P 2.2K
688	R562	5134-222J25P	RES, CBN 1/4P 2.2K
641	R901	5134-102J25P	RES, CBN 1/4P 1K
641	R902	5134-102J25P	RES, CBN 1/4P 1K
632	R903	5134-684J25P	RES, CBN 1/4P 680K
632	R904	5134-684J25P	RES, CBN 1/4P 680K
633	R905	5134-224J25P	RES, CBN 1/4P 220K
633	R906	5134-224J25P	RES, CBN 1/4P 220K
634	R907	5134-332J25P	RES, CBN 1/4P 3.3K
634	R908	5134-332J25P	RES, CBN 1/4P 3.3K
634	R909	5134-332J25P	RES, CBN 1/4P 3.3K
634	R910	5134-332J25P	RES, CBN 1/4P 3.3K
635	R911	5134-183J25P	RES, CBN 1/4P 18K
635	R912	5134-183J25P	RES, CBN 1/4P 18K
636	R913	5134-472J25P	RES, CBN 1/4P 4.7K
636	R914	5134-472J25P	RES, CBN 1/4P 4.7K
638	R915	5134-562J25P	RES, CBN 1/4P 5.6K
638	R916	5134-562J25P	RES, CBN 1/4P 5.6K
634	R917	5134-332J25P	RES, CBN 1/4P 3.3K
634	R918	5134-332J25P	RES, CBN 1/4P 3.3K
635	R919	5134-183J25P	RES, CBN 1/4P 18K
635	R920	5134-183J25P	RES, CBN 1/4P 18K
637	R921	5134-331J25P	RES, CBN 1/4P 330
637	R922	5134-331J25P	RES, CBN 1/4P 330
634	R923	5134-332J25P	RES, CBN 1/4P 3.3K
634	R924	5134-332J25P	RES, CBN 1/4P 3.3K
639	R925	5134-221J25P	RES, CBN 1/4P 220
639	R926	5134-221J25P	RES, CBN 1/4P 220
637	R927	5134-331J25P	RES, CBN 1/4P 330
637	R928	5134-331J25P	RES, CBN 1/4P 330
640	R929	5134-104J25P	RES, CBN 1/4P 100K
640	R930	5134-104J25P	RES, CBN 1/4P 100K

Ser. No.	Ref. No.	Part No.	Description
TRANSISTORS			
721	Q5	5613-3422(O)or(Y)	XISTOR, NPN R
722	Q6	5611-1359(O)or(Y)	XISTOR, PNP R
721	Q11	5613-3422(O)or(Y)	XISTOR, NPN R
722	Q12	5611-1359(O)or(Y)	XISTOR, PNP R
651	Q501	5613-2320L(F)	XISTOR, NPN R
651	Q502	5613-2320L(F)	XISTOR, NPN R
651	Q503	5613-2320L(F)	XISTOR, NPN R
651	Q504	5613-2320L(F)	XISTOR, NPN R
652	Q505	5613-2603(E)or(F)	XISTOR, NPN R
652	Q506	5613-2603(E)or(F)	XISTOR, NPN R
652	Q507	5613-2603(E)or(F)	XISTOR, NPN R
652	Q508	5613-2603(E)or(F)	XISTOR, NPN R
653	Q509	5611-1115(E)or(F)	XISTOR, PNP R
653	Q510	5611-1115(E)or(F)	XISTOR, PNP R
652	Q511	5613-2603(E)or(F)	XISTOR, NPN R
652	Q512	5613-2603(E)or(F)	XISTOR, NPN R
653	Q513	5611-1115(E)or(F)	XISTOR, PNP R
653	Q514	5611-1115(E)or(F)	XISTOR, PNP R
655	Q515	5611-992(E)	XISTOR, PNP R
655	Q516	5611-992(E)	XISTOR, PNP R
654	Q517	5613-1845(E)	XISTOR, NPN R
654	Q518	5613-1845(E)	XISTOR, NPN R
621	Q901	5613-2603(F)or(E)	XISTOR, NPN R
621	Q902	5613-2603(F)or(E)	XISTOR, NPN R
622	Q903	5611-1115(F)or(E)	XISTOR, PNP R
622	Q904	5611-1115(F)or(E)	XISTOR, PNP R
621	Q905	5613-2603(F)or(E)	XISTOR, NPN R
621	Q906	5613-2603(F)or(E)	XISTOR, NPN R
DIODES			
726	D9	5635-HZ24-2L	DIODE, ZENER
726	D10	5635-HZ24-2L	DIODE, ZENER
727	D11	5635-HZ15-2L	DIODE, ZENER
727	D12	5635-HZ15-2L	DIODE, ZENER
657	D503	5631-1S2473	DIODE, DET
657	D504	5631-1S2473	DIODE, DET
CONTROLS			
913	VR501	5113-50396122	RES, V CBN 16 50K
913	VR502	5113-50396122	RES, V CBN 16 50K
909	VR505	5113-50373148	RES, V CBN 16 50K
909	VR506	5113-50373148	RES, V CBN 16 50K
911	VR507	5113-10474148	RES, V CBN 16 100K
911	VR508	5113-10474148	RES, V CBN 16 100K
MISCELLANEOUS			
969	JL501	4242-R0403201	JUMPER LEAD
970	JL502	4242-R0307800	JUMPER LEAD
971	JL503	4242-R0407181	JUMPER LEAD
972	JL504	4242-R0307551	JUMPER LEAD
973	JL505	4242-R0305800	JUMPER LEAD
974	JL506	4242-R0307601	JUMPER LEAD
975	JL507	4242-R0303141	JUMPER LEAD
970	JL508	4242-R0307800	JUMPER LEAD
970	JL509	4242-R0307800	JUMPER LEAD
970	JL510	4242-R0307800	JUMPER LEAD
970	JL511	4242-R0307800	JUMPER LEAD
976	JL515	4242-R0303551	JUMPER LEAD
978	JL516	4242-R0403181	JUMPER LEAD
979	JL517	4242-R0403181	JUMPER LEAD
981	JL801	4242-R0304651	JUMPER LEAD
980	JL802	4242-R0304651	JUMPER LEAD
897	SW1	4424-00102045	SWITCH, RO-SL
898	SW2	4424-00103065	SWITCH, RO-SL
899	SW3	4424-00101043	SWITCH, RO-SL
708	LCN519	4163-0125020	CONNECTOR W/W
709	LCN528	4163-0125024	CONNECTOR W/W

Ser. No.	Ref. No.	Part No.	Description
<b>PCB-6 TONE 2 P.C.BOARD</b>			
<b>CAPACITORS</b>			
933	C75	5345-106C0951	CAP, MINI ELE 10 $\mu$ /16V
933	$\Delta$ C76	5345-106C0951	CAP, MINI ELE 10 $\mu$ /16V
643	C503	5354-394593	CAP, MYL .39 $\mu$
643	C504	5354-394593	CAP, MYL .39 $\mu$
644	C505	5354-183J1HM	CAP, MYL .018 $\mu$
644	C506	5354-183J1HM	CAP, MYL .018 $\mu$
669	C521	5354-224593	CAP, MYL .22 $\mu$
669	C522	5354-224593	CAP, MYL .22 $\mu$
679	C523	5354-393J1HM	CAP, MYL .039 $\mu$
679	C524	5354-393J1HM	CAP, MYL .039 $\mu$
672	C527	5354-183J1HM	CAP, MYL .018 $\mu$
672	C528	5354-183J1HM	CAP, MYL .018 $\mu$
674	C533	5354-104593	CAP, MYL .1 $\mu$
674	C534	5354-104593	CAP, MYL .1 $\mu$
677	C535	5354-682J1HM	CAP, MYL 6800p
677	C536	5354-682J1HM	CAP, MYL 6800p
679	C537	5354-393J1HM	CAP, MYL .039 $\mu$
679	C538	5354-393J1HM	CAP, MYL .039 $\mu$
665	C539	5359-2025851	CAP, PPP 2000p
665	C540	5359-2025851	CAP, PPP 2000p
678	C541	5354-123J1HM	CAP, MYL .012 $\mu$
678	C542	5354-123J1HM	CAP, MYL .012 $\mu$
0598	C554	5361-223ZF	CAP, CER .022 $\mu$ <b>G GB</b>
<b>RESISTORS</b>			
938	R55	5134-152J25P	RES, CBN 1/4P 1.5K
939	R58	5134-122J25P	RES, CBN 1/4P 1.2K
646	R503	5134-105J25P	RES, CBN 1/4P 1M
646	R504	5134-105J25P	RES, CBN 1/4P 1M
702	R543	5134-102J25P	RES, CBN 1/4P 1K
702	R544	5134-102J25P	RES, CBN 1/4P 1K
697	R545	5134-153J25P	RES, CBN 1/4P 15K
697	R546	5134-153J25P	RES, CBN 1/4P 15K
692	R547	5134-272J25P	RES, CBN 1/4P 2.7K
692	R548	5134-272J25P	RES, CBN 1/4P 2.7K
693	R549	5134-331J25P	RES, CBN 1/4P 330
693	R550	5134-331J25P	RES, CBN 1/4P 330
699	R551	5134-122J25P	RES, CBN 1/4P 1.2K
699	R552	5134-122J25P	RES, CBN 1/4P 1.2K
697	R557	5134-153J25P	RES, CBN 1/4P 15K
697	R558	5134-153J25P	RES, CBN 1/4P 15K
698	R559	5134-272J25P	RES, CBN 1/4P 2.7K
698	R560	5134-272J25P	RES, CBN 1/4P 2.7K
695	R581	5134-184J25P	RES, CBN 1/4P 180K
695	R582	5134-184J25P	RES, CBN 1/4P 180K
696	R583	5134-223J25P	RES, CBN 1/4P 22K
696	R584	5134-223J25P	RES, CBN 1/4P 22K
701	R589	5134-391J25P	RES, CBN 1/4P 390
701	R590	5134-391J25P	RES, CBN 1/4P 390
<b>DIODES</b>			
936	D52	5637-GL5HD10	LED
936	D53	5637-GL5HD10	LED
936	D54	5637-GL5HD10	LED
936	D55	5637-GL5HD10	LED
936	D56	5637-GL5HD10	LED
936	D57	5637-GL5HD10	LED
936	D58	5637-GL5HD10	LED
937	D59	5637-5NG510(C)	LED
<b>MISCELLANEOUS</b>			
983	JL514	4242-R0403101	JUMPER LEAD
894	SW4	4431-A027161	SWITCH, PUSH
893	SW5	4431-05127259	SWITCH, PUSH
892	SW7	4431-05127159	SWITCH, PUSH

Ser. No.	Ref. No.	Part No.	Description
<b>PCB-7 VOLUME P.C.BOARD</b>			
<b>RESISTORS</b>			
703	R509	5134-472J25P	RES, CBN 1/4P 4.7K
703	R510	5134-472J25P	RES, CBN 1/4P 4.7K
<b>CONTROLS</b>			
907	VR503	5113-10472147	RES, V CBN 16 100K
907	VR504	5113-10472147	RES, V CBN 16 100K
<b>MISCELLANEOUS</b>			
942	CN514	4443-030185	CONNECTOR

<b>PCB-8 CAPACITANCE TRIM P.C.BOARD</b>			
<b>CAPACITORS</b>			
558	C653	5359-1515851	CAP, PPP 150p
558	C654	5359-1515851	CAP, PPP 150p
559	C655	5359-5115851	CAP, PPP 510p
559	C656	5359-5115851	CAP, PPP 510p
901	SW12	4411-204714	SWITCH, ROTARY

<b>PCB-9 4/8<math>\Omega</math> LED P.C.BOARD</b>			
<b>CAPACITORS</b>			
934	C78	5345-106C0356	CAP, MINI ELE 10 $\mu$ /16V
934	C79	5345-106C0356	CAP, MINI ELE 10 $\mu$ /16V
<b>DIODES</b>			
935	D78	5637-SLP965B	LED
935	D79	5637-SLP965B	LED

<b>PCB-10 PIN JACK P.C.BOARD</b>			
<b>CAPACITORS</b>			
613	C80	5345-337C041	CAP, MINI ELE 330 $\mu$ /16V
613	C81	5345-337C041	CAP, MINI ELE 330 $\mu$ /16V
060B	C551	5361-223ZF	CAP, CER .022 $\mu$ <b>G GB</b>
060B	C552	5361-223ZF	CAP, CER .022 $\mu$ <b>G GB</b>
060B	C553	5361-223ZF	CAP, CER .022 $\mu$ <b>G GB</b>
598	C802	5345-106C041	CAP, MINI ELE 10 $\mu$ /16V
596	C811	5345-107B041	CAP, MINI ELE 100 $\mu$ /10V
596	C812	5345-107B041	CAP, MINI ELE 100 $\mu$ /10V
596	C813	5345-107B041	CAP, MINI ELE 100 $\mu$ /10V
597	C814	5345-337B041	CAP, MINI ELE 330 $\mu$ /10V
597	C815	5345-337B041	CAP, MINI ELE 330 $\mu$ /10V
597	C816	5345-337B041	CAP, MINI ELE 330 $\mu$ /10V
<b>RESISTORS</b>			
618	R80	5134-153J25P	RES, CBN 1/4P 15K
615	$\Delta$ R81	5102-3304715	RES, FUSE 33
617	R82	5176-S010J680	RES, MTL 1/2 68
617	R83	5176-S010J680	RES, MTL 1/2 68
617	R84	5176-S010J680	RES, MTL 1/2 68
649	R585	5134-102J25P	RES, CBN 1/4P 1K
649	R586	5134-102J25P	RES, CBN 1/4P 1K
648	R587	5134-471J25P	RES, CBN 1/4P 470
648	R588	5134-471J25P	RES, CBN 1/4P 470
601	R801	5232-272J16P	RES, CBN 1/6P 2.7K
600	R802	5232-122J16P	RES, CBN 1/6P 1.2K
603	R803	5232-393J16P	RES, CBN 1/6P 39K
603	R804	5232-393J16P	RES, CBN 1/6P 39K
603	R805	5232-393J16P	RES, CBN 1/6P 39K
603	R806	5232-393J16P	RES, CBN 1/6P 39K
603	R807	5232-393J16P	RES, CBN 1/6P 39K
603	R808	5232-393J16P	RES, CBN 1/6P 39K
602	R810	5232-750J16P	RES, CBN 1/6P 75
602	R811	5232-750J16P	RES, CBN 1/6P 75
602	R812	5232-750J16P	RES, CBN 1/6P 75
602	R813	5232-750J16P	RES, CBN 1/6P 75
602	R814	5232-750J16P	RES, CBN 1/6P 75
602	R815	5232-750J16P	RES, CBN 1/6P 75

Ser. No.	Ref. No.	Part No.	Description	Ser. No.	Ref. No.	Part No.	Description
604	R820	5232-271J16P	RES, CBN 1/6P 270	716	C626	5345-337D041	CAP, MINI ELE 330μ/25V
604	R821	5232-271J16P	RES, CBN 1/6P 270	716	C627	5345-337D041	CAP, MINI ELE 330μ/25V
604	R822	5232-271J16P	RES, CBN 1/6P 270	716	C628	5345-337D041	CAP, MINI ELE 330μ/25V
605	R823	5232-221J16P	RES, CBN 1/6P 220	557	C651	5359-3315851	CAP, PPP 330p
605	R824	5232-221J16P	RES, CBN 1/6P 220	557	C652	5359-3315851	CAP, PPP 330p
605	R825	5232-221J16P	RES, CBN 1/6P 220	053B	C681	5353-330534	CAP, MCA 33p
605	R826	5232-221J16P	RES, CBN 1/6P 220	053B	C682	5353-330534	CAP, MCA 33p
605	R827	5232-221J16P	RES, CBN 1/6P 220	052B	C683	5354-473593	CAP, MYL .047μ
605	R828	5232-221J16P	RES, CBN 1/6P 220	052B	C684	5354-473593	CAP, MYL .047μ
606	R829	5232-331J16P	RES, CBN 1/6P 330	051B	C685	5359-6815851	CAP, PPP 680p
606	R830	5232-331J16P	RES, CBN 1/6P 330	051B	C686	5359-6815851	CAP, PPP 680p
606	R831	5232-331J16P	RES, CBN 1/6P 330	512	C703	5345-106F0951	CAP, MINI ELE 10μ/50V
<b>TRANSISTORS</b>				512	C704	5345-106F0951	CAP, MINI ELE 10μ/50V
609	Q80	5613-3422(O)or(Y)	XISTOR, NPN R	512	C705	5345-106F0951	CAP, MINI ELE 10μ/50V
593	Q810	5611-1115(E)or(F)	XISTOR, PNP R	512	C706	5345-106F0951	CAP, MINI ELE 10μ/50V
594	Q811	5613-2603(E)or(F)	XISTOR, NPN R	511	C707	5345-337C041	CAP, MINI ELE 330μ/16V
593	Q812	5611-1115(E)or(F)	XISTOR, PNP R	511	C708	5345-337C041	CAP, MINI ELE 330μ/16V
594	Q813	5613-2603(E)or(F)	XISTOR, NPN R	511	C709	5345-337C041	CAP, MINI ELE 330μ/16V
593	Q814	5611-1115(E)or(F)	XISTOR, PNP R	511	C710	5345-337C041	CAP, MINI ELE 330μ/16V
594	Q815	5613-2603(E)or(F)	XISTOR, NPN R	587	C808	5354-102J1HM	CAP, MYL 1000p
<b>DIODE</b>				<b>RESISTORS</b>			
611	D80	5635-HZ12C-2L	DIODE, ZENER	567	R601	5134-470J25P	RES, CBN 1/4P 47
<b>INTEGRATED CIRCUITS</b>				567	R602	5134-470J25P	RES, CBN 1/4P 47
591	IC801	5654-TC4066BP	IC, DIGITAL	580	R603	5134-823J25P	RES, CBN 1/4P 82K
591	IC802	5654-TC4066BP	IC, DIGITAL	580	R604	5134-823J25P	RES, CBN 1/4P 82K
<b>MISCELLANEOUS</b>				568	R605	5134-124J25P	RES, CBN 1/4P 120K
921	J2	4484-47	PIN JACK, 4P	568	R606	5134-124J25P	RES, CBN 1/4P 120K
921D	J2	4489-00201004	PIN JACK, MLT	569	R607	5134-473J25P	RES, CBN 1/4P 47K
921	J3	4484-47	PIN JACK, 4P	569	R608	5134-473J25P	RES, CBN 1/4P 47K
921D	J3	4489-00201004	PIN JACK, MLT	570	R609	5134-332J25P	RES, CBN 1/4P 3.3K
924	J6	4486-16	PIN JACK, 6P	570	R610	5134-332J25P	RES, CBN 1/4P 3.3K
924D	J6	4489-00401006	PIN JACK, MLT	570	R611	5134-332J25P	RES, CBN 1/4P 3.3K
925	J7	4489-00101002	PIN JACK, MLT	570	R612	5134-332J25P	RES, CBN 1/4P 3.3K
925D	J7	4489-00102002	PIN JACK, MLT	581	R613	5134-331J25P	RES, CBN 1/4P 330
925	J8	4489-00101002	PIN JACK, MLT	581	R614	5134-331J25P	RES, CBN 1/4P 330
925D	J8	4489-00102002	PIN JACK, MLT	581	R615	5134-331J25P	RES, CBN 1/4P 330
925	J9	4489-00101002	PIN JACK, MLT	581	R616	5134-331J25P	RES, CBN 1/4P 330
925D	J9	4489-00102002	PIN JACK, MLT	581	R617	5134-331J25P	RES, CBN 1/4P 330
592	RL801	5212-473J0301	R COMPOSITE	581	R618	5134-331J25P	RES, CBN 1/4P 330
592	RL802	5212-473J0301	R COMPOSITE	581	R619	5134-331J25P	RES, CBN 1/4P 330
710	LCN529	4163-0130020	CONNECTOR W/W	581	R620	5134-331J25P	RES, CBN 1/4P 330
707	LCN801	4163-0140020	CONNECTOR W/W	561	R621	5174-Z634038	RES, MTL 1/4P 634
<b>PCB-11 EQUALIZER P.C. BOARD</b>				561	R622	5174-Z634038	RES, MTL 1/4P 634
<b>CAPACITORS</b>				571	R623	5134-222J25P	RES, CBN 1/4P 2.2K
061B	C555	5361-223ZF	CAP, CER .022μ	571	R624	5134-222J25P	RES, CBN 1/4P 2.2K
545	C601	5345-106D0951	CAP, MINI ELE 10μ/25V	571	R625	5134-222J25P	RES, CBN 1/4P 2.2K
545	C602	5345-106D0951	CAP, MINI ELE 10μ/25V	571	R626	5134-222J25P	RES, CBN 1/4P 2.2K
555	C603	5353-121534	CAP, MCA 120p	565	R627	5174-102381	RES, MTL 1/4P 1K
555	C604	5353-121534	CAP, MCA 120p	565	R628	5174-102381	RES, MTL 1/4P 1K
554	C605	5359-1015851	CAP, PPP 100p	572	R629	5134-682J25P	RES, CBN 1/4P 6.8K
554	C606	5359-1015851	CAP, PPP 100p	572	R630	5134-682J25P	RES, CBN 1/4P 6.8K
546	C607	5345-477B0952	CAP, MINI ELE 470μ/10V	572	R631	5134-682J25P	RES, CBN 1/4P 6.8K
546	C608	5345-477B0952	CAP, MINI ELE 470μ/10V	572	R632	5134-682J25P	RES, CBN 1/4P 6.8K
548	C609	5345-226C041	CAP, MINI ELE 22μ/16V	573	R633	5134-471J25P	RES, CBN 1/4P 470
548	C610	5345-226C041	CAP, MINI ELE 22μ/16V	573	R634	5134-471J25P	RES, CBN 1/4P 470
551	C611	5354-822J1HM	CAP, MYL 8200p	573	R635	5134-471J25P	RES, CBN 1/4P 470
551	C612	5354-822J1HM	CAP, MYL 8200p	573	R636	5134-471J25P	RES, CBN 1/4P 470
552	C613	5354-223J1HM	CAP, MYL .022μ	576	R637	5134-330J25P	RES, CBN 1/4P 33
552	C614	5354-223J1HM	CAP, MYL .022μ	576	R638	5134-330J25P	RES, CBN 1/4P 33
550	C615	5354-562J1HM	CAP, MYL 5600p	576	R639	5134-330J25P	RES, CBN 1/4P 33
550	C616	5354-562J1HM	CAP, MYL 5600p	574	R640	5134-330J25P	RES, CBN 1/4P 33
556	C617	5359-2025851	CAP, PPP 2000p	574	R641	5134-103J25P	RES, CBN 1/4P 10K
556	C618	5359-2025851	CAP, PPP 2000p	574	R642	5134-103J25P	RES, CBN 1/4P 10K
556	C619	5359-2025851	CAP, PPP 2000p	575	R643	5134-122J25P	RES, CBN 1/4P 1.2K
556	C620	5359-2025851	CAP, PPP 2000p	575	R644	5134-122J25P	RES, CBN 1/4P 1.2K
547	C623	5345-106F0951	CAP, MINI ELE 10μ/50V	564	R645	5174-Z549338	RES, MTL 1/4P 549K
547	C624	5345-106F0951	CAP, MINI ELE 10μ/50V	564	R646	5174-Z549338	RES, MTL 1/4P 549K
716	C625	5345-337D041	CAP, MINI ELE 330μ/25V	563	R647	5174-Z412238	RES, MTL 1/4P 41.2K
				563	R648	5174-Z412238	RES, MTL 1/4P 41.2K
				577	R649	5134-102J25P	RES, CBN 1/4P 1K
				577	R650	5134-102J25P	RES, CBN 1/4P 1K
				579	R651	5134-104J25P	RES, CBN 1/4P 100K
				579	R652	5134-104J25P	RES, CBN 1/4P 100K



Ser. No.	Ref. No.	Part No.	Description
719	R653	5134-103J25P	RES, CBN 1/4P 10K
719	R654	5134-103J25P	RES, CBN 1/4P 10K
718	R655	5176-S010J470	RES, MTL 1/2 47
718	R656	5176-S010J470	RES, MTL 1/2 47
717	△R657	5102-2204715	RES, FUSE 22
717	△R658	5102-2204715	RES, FUSE 22
578	R659	5134-471J25P	RES, CBN 1/4P 470
578	R660	5134-471J25P	RES, CBN 1/4P 470
562	R661	5174-Z169338	RES, MTL 1/4 169K
562	R662	5174-Z169338	RES, MTL 1/4 169K
582	R663	5134-105J25P	RES, CBN 1/4P 1M
582	R664	5134-105J25P	RES, CBN 1/4P 1M
718	R667	5176-S010J470	RES, MTL 1/2 47
718	R668	5176-S010J470	RES, MTL 1/2 47
718	R669	5176-S010J470	RES, MTL 1/2 47
718	R670	5176-S010J470	RES, MTL 1/2 47
055B	R681	5134-102J25P	RES, CBN 1/4P 1K
055B	R682	5134-102J25P	RES, CBN 1/4P 1K
055B	R683	5134-102J25P	RES, CBN 1/4P 1K
055B	R684	5134-102J25P	RES, CBN 1/4P 1K
516	R701	5134-1R0J25P	RES, CBN 1/4P 1
516B	R701	5134-5R6J25P	RES, CBN 1/4P 5.6
516	R702	5134-1R0J25P	RES, CBN 1/4P 1
516B	R702	5134-5R6J25P	RES, CBN 1/4P 5.6
519	R703	5134-560J25P	RES, CBN 1/4P 56
519	R704	5134-560J25P	RES, CBN 1/4P 56
521	R705	5134-472J25P	RES, CBN 1/4P 4.7K
521	R706	5134-472J25P	RES, CBN 1/4P 4.7K
521	R707	5134-472J25P	RES, CBN 1/4P 4.7K
521	R708	5134-472J25P	RES, CBN 1/4P 4.7K
517	R709	5134-100J25P	RES, CBN 1/4P 10
517	R710	5134-100J25P	RES, CBN 1/4P 10
517	R711	5134-100J25P	RES, CBN 1/4P 10
517	R712	5134-100J25P	RES, CBN 1/4P 10
518	R713	5134-220J25P	RES, CBN 1/4P 22
518	R714	5134-220J25P	RES, CBN 1/4P 22
518	R715	5134-220J25P	RES, CBN 1/4P 22
518	R716	5134-220J25P	RES, CBN 1/4P 22
515	R717	5174-561381	RES, MTL 1/4 560
515	R718	5174-561381	RES, MTL 1/4 560
515	R719	5174-561381	RES, MTL 1/4 560
515	R720	5174-561381	RES, MTL 1/4 560
520	R721	5134-392J25P	RES, CBN 1/4P 3.9K
520	R722	5134-392J25P	RES, CBN 1/4P 3.9K
522	R723	5134-681J25P	RES, CBN 1/4P 680
522	R724	5134-681J25P	RES, CBN 1/4P 680
523	R727	5134-331J25P	RES, CBN 1/4P 330
523	R728	5134-331J25P	RES, CBN 1/4P 330
588	R816	5134-104J25P	RES, CBN 1/4P 100K
588	R817	5134-104J25P	RES, CBN 1/4P 100K
589	R818	5134-103J25P	RES, CBN 1/4P 10K
590	R819	5134-105J25P	RES, CBN 1/4P 1M

## TRANSISTORS

531	Q601	5613-2240(BL)	XISTOR, NPN R
531	Q602	5613-2240(BL)	XISTOR, NPN R
531	Q603	5613-2240(BL)	XISTOR, NPN R
531	Q604	5613-2240(BL)	XISTOR, NPN R
532	Q605	5613-2603(E)or(F)	XISTOR, NPN R
532	Q606	5613-2603(E)or(F)	XISTOR, NPN R
532	Q607	5613-2603(E)or(F)	XISTOR, NPN R
532	Q608	5613-2603(E)or(F)	XISTOR, NPN R
533	Q609	5611-999L(F)	XISTOR, PNP R
533	Q610	5611-999L(F)	XISTOR, PNP R
538	Q611	5613-2320L(F)	XISTOR, NPN R
538	Q612	5613-2320L(F)	XISTOR, NPN R
533	Q613	5611-999L(F)	XISTOR, PNP R
533	Q614	5611-999L(F)	XISTOR, PNP R
535	Q615	5612-646(C)	XISTOR, PNP A
535	Q616	5612-646(C)	XISTOR, PNP A
534	Q617	5614-666(C)	XISTOR, NPN A
534	Q618	5614-666(C)	XISTOR, NPN A
536	Q619	5614-667(C)	XISTOR, NPN A
536	Q620	5614-667(C)	XISTOR, NPN A

Ser. No.	Ref. No.	Part No.	Description
537	Q621	5612-647(C)	XISTOR, PNP A
537	Q622	5612-647(C)	XISTOR, PNP A
711	Q623	5613-3298(O)or(Y)	XISTOR, NPN R
713	Q624	5611-1306(O)or(Y)	XISTOR, PNP R
502	Q701	5611-1190(E)	XISTOR, PNP R
502	Q702	5611-1190(E)	XISTOR, PNP R
501	Q703	5613-2855(D)	XISTOR, NPN R
501	Q704	5613-2855(D)	XISTOR, NPN R
501	Q705	5613-2855(D)	XISTOR, NPN R
501	Q706	5613-2855(D)	XISTOR, NPN R
502	Q707	5611-1190(E)	XISTOR, PNP R
502	Q708	5611-1190(E)	XISTOR, PNP R
503	Q709	5613-2603(E)or(F)	XISTOR, NPN R
504	Q710	5611-1115(E)or(F)	XISTOR, PNP R
504	Q711	5611-1115(E)or(F)	XISTOR, PNP R
503	Q712	5613-2603(E)or(F)	XISTOR, NPN R
505	Q713	5616-2SK373GR	FET, N-CH
505	Q714	5616-2SK373GR	FET, N-CH
585	Q803	5611-1115(E)	XISTOR, PNP R
585	Q804	5611-1115(E)	XISTOR, PNP R
586	Q805	5616-2SK364(V)or(BL)	FET, N-CH
586	Q806	5616-2SK364(V)or(BL)	FET, N-CH
DIODES			
541	D601	5631-1S2473	DIODE, DET
541	D602	5631-1S2473	DIODE, DET
542	D603	5641-MV103	VARISTOR
542	D604	5641-MV103	VARISTOR
715	D605	5635-HZ24-2L	DIODE, ZENER
715	D606	5635-HZ24-2L	DIODE, ZENER
508	D701	5635-HZ15-1L	DIODE, ZENER
508	D702	5635-HZ15-1L	DIODE, ZENER
COILS			
056B	L701	5597-3	CORE, BEADS
056B	L702	5597-3	CORE, BEADS
056B	L703	5597-3	CORE, BEADS
056B	L704	5597-3	CORE, BEADS
MISCELLANEOUS			
922	J4	4484-31	PIN JACK, 4P
922D	J4	4484-36	PIN JACK, 4P
923	J5	4486-9	PIN JACK, 6P
923D	J5	4486-00301006	PIN JACK, 6P
982	JL402	4242-R0403501	JUMPER LEAD
895	SW9	4422-70211	SWITCH, REMOTE
583	LCN517	4163-0110020	CONNECTOR W/W
944	CN304	4443-070185	CONNECTOR
941	CN501	4443-030185	CONNECTOR
941	CN507	4443-030185	CONNECTOR
941	CN515	4443-030185	CONNECTOR

## PCB-12 HEADPHONE P.C.BOARD

916	J1	4451-00159	JACK, 1P
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## PCB-13 4/8Ω P.C.BOARD

CAPACITORS			
886	△C77	5345-107D041	CAP, MINI ELE 100μ/25V
885	C96	5345-476C041	CAP, MINI ELE 47μ/16V
RESISTORS			
888	△R76	5102-2714713	RES, FUSE 270
889	△R77	5102-2714715	RES, FUSE 270
890	△R78	5102-5R64713	RES, FUSE 5.6
DIODES			
884	△D75	5632-S5566B	DIODE, RECT
884	△D76	5632-S5566B	DIODE, RECT
MISCELLANEOUS			
985	JL804	4242-R0303451	JUMPER LEAD
951	TM301	4214-11034	TERMINAL

Ser. No. Ref. No. Part No. Description

## CHASSIS MISCELLANEOUS

044B	ΔCOI	4443-712	CONNECTOR	G
866	ΔF1	5732-502029	FUSE	UA BK
866B	ΔF1	5732-252030	FUSE	G
866D	ΔF1	5732-502050	FUSE	N
866	ΔF2	5732-502029	FUSE	UA BK
866B	ΔF2	5732-252030	FUSE	G
866D	ΔF2	5732-502050	FUSE	N
861	ΔT1	5584-S05	XFORMER, POWER	UA BK
861B	ΔT1	5584-S06	XFORMER, POWER	C GB
861D	ΔT1	5584-S07	XFORMER, POWER	N
861	ΔT2	5584-S05	XFORMER, POWER	UA BK
861B	ΔT2	5584-S06	XFORMER, POWER	G GB
861D	ΔT2	5584-S07	XFORMER, POWER	N
926	ΔSOI	4474-156	SOCKET	UA BK N
930	ΔPI	4161-71151	CORD W/PLUG	UA BK
930B	ΔPI	4161-7256	CORD W/PLUG	G
930D	ΔPI	4161-71148	CORD W/PLUG	N
896	SW102	4421-0227230	SWITCH, SLIDE	
896	SW103	4421-0227230	SWITCH, SLIDE	
249	LUG1	4211-5005	LUG	
249	LUG2	4211-5005	LUG	
249	LUG3	4211-5005	LUG	
065B	LUG4	4211-4	LUG	G
065B	LUG5	4211-4	LUG	G
065B	LUG6	4211-4	LUG	G
867		4472-014	HOLDER, FUSE	UA BK
867B		4472-7118	HOLDER, FUSE	G
932		4442-14	PIN PLUG	

## PACKAGE PARTS LIST

021B	1756-06303	LABEL	G GB
022B	1756-03108	LABEL	G GB
022D	1756-03113	LABEL	N
028B	1119-026	ATTACH SHEET	G GB
106	1111-J90195	OWNER GUIDE	UA BK
107	1111-J30273	OWNER GUIDE	UA BK
107B	1111-J30274	OWNER GUIDE	G GB
107D	1111-J2040	OWNER GUIDE	N
108	1113-717004	OWNER CARD	UA BK
108D	1113-OC	OWNER CARD	N
109	1119-047	ATTACH SHEET	UA BK
109D	1116-GC	ATTACH SHEET	N
110	1119-0137	ATTACH SHEET	UA BK
121	1241-C12732	POLYETHYLENE BAG	
122	1241-C1492	POLYETHYLENE BAG	
124	1221-807143	CARTON BOX	UA G
124A	1221-817143	CARTON BOX	BK GB N
125	1222-7225	CUSHION R	
126	1222-7226	CUSHION L	
127	1223-11729	SOFT SHEET	

## ABBREVIATIONS IN PARTS LIST

## CAPACITORS

CAP, MINI ELE : Electrolytic  
 CAP, CER : Ceramic  
 CAP, PPP : Polypropylene  
 CAP, MYL : Mylar  
 CAP, MCA : Mica  
 CAP, MINI BP : Bipolar  
 CAP, ELE BP : Electrolytic Bipolar  
 CAP, STY : Polystyrene Film  
 CAP, SPE : Special  
 CAP, TAN : Tantalum

## RESISTORS

RES, CBN 1/6P : Carbon 1/6W  
 RES, FUSE : Fuse  
 RES, CEM 5P : Cement 5W  
 RES, MTL 1P : Metal 1W  
 2.2K : 2.2kΩ  
 220 : 220Ω

## TRANSISTORS

XISTOR : Transistor  
 FET : Field Effect Transistor

## CONTROLS

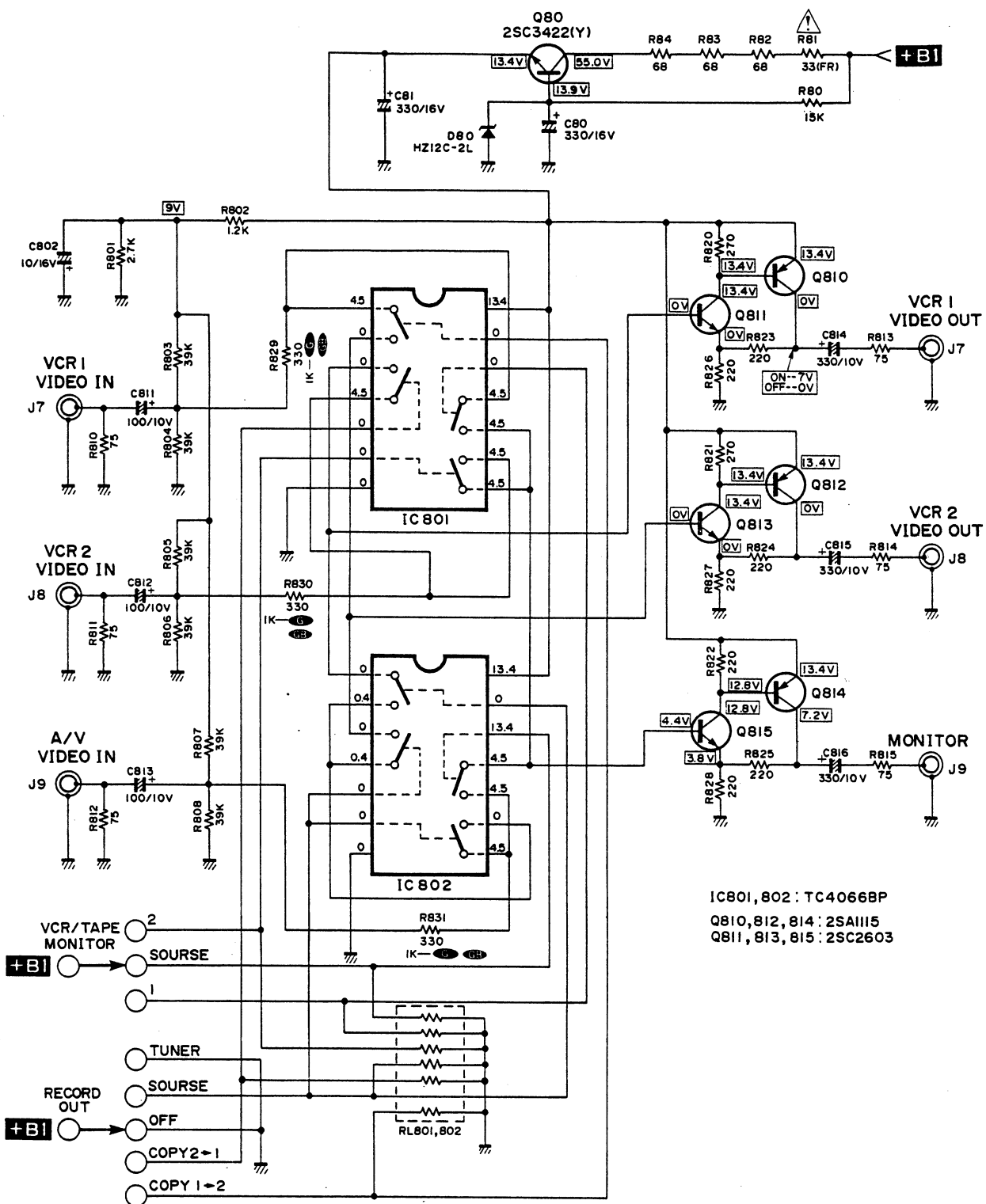
RES, V CBN : Variable Carbon Resistor  
 RES, SEMI FIX : Semi-fixed Resistor

## NOTE

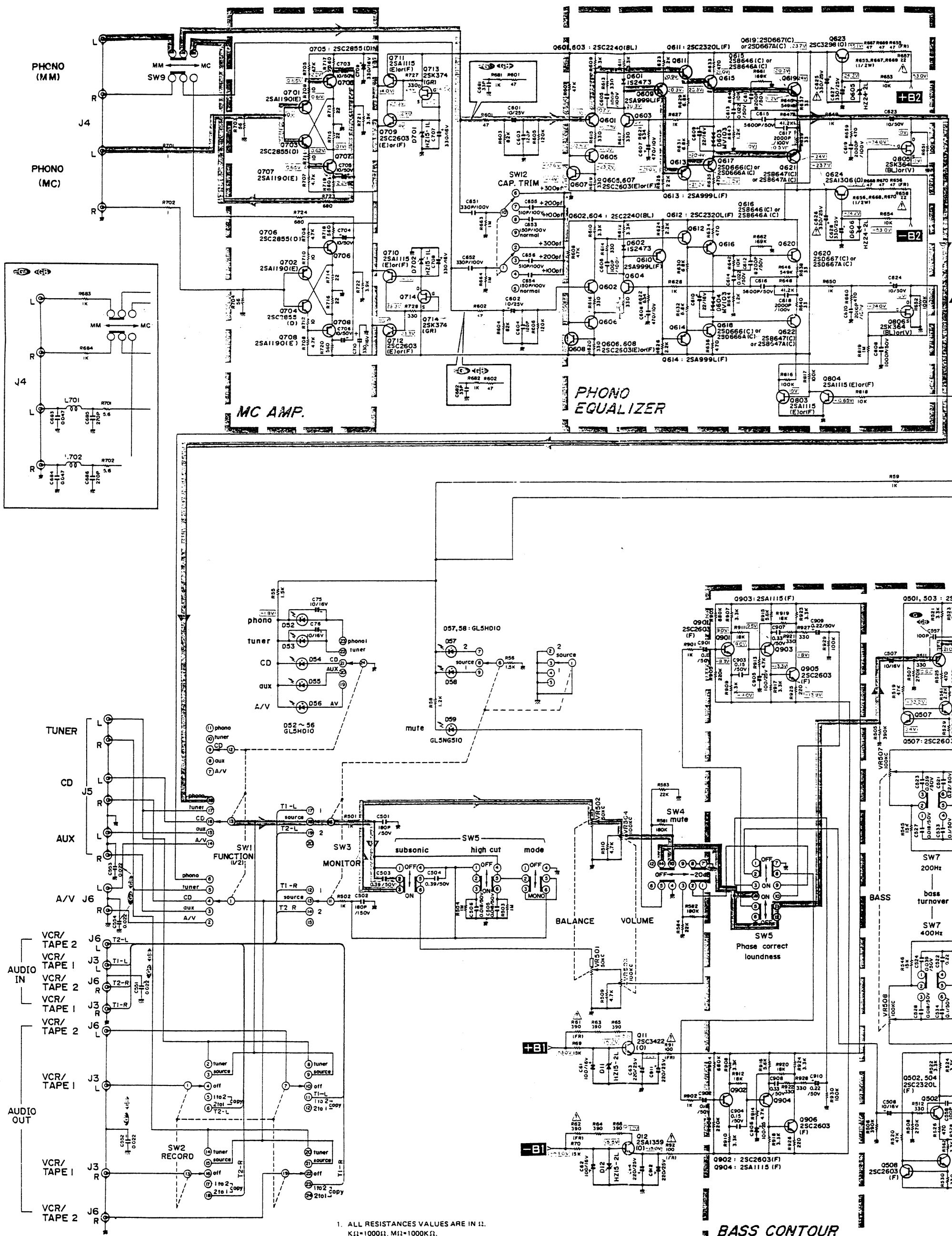


SAFETY RELATED COMPONENT. USE ONLY EXACT REPLACEMENT PART AS SPECIFIED.

# SCHEMATIC DIAGRAM



# SCHEMATIC DIAGRAM

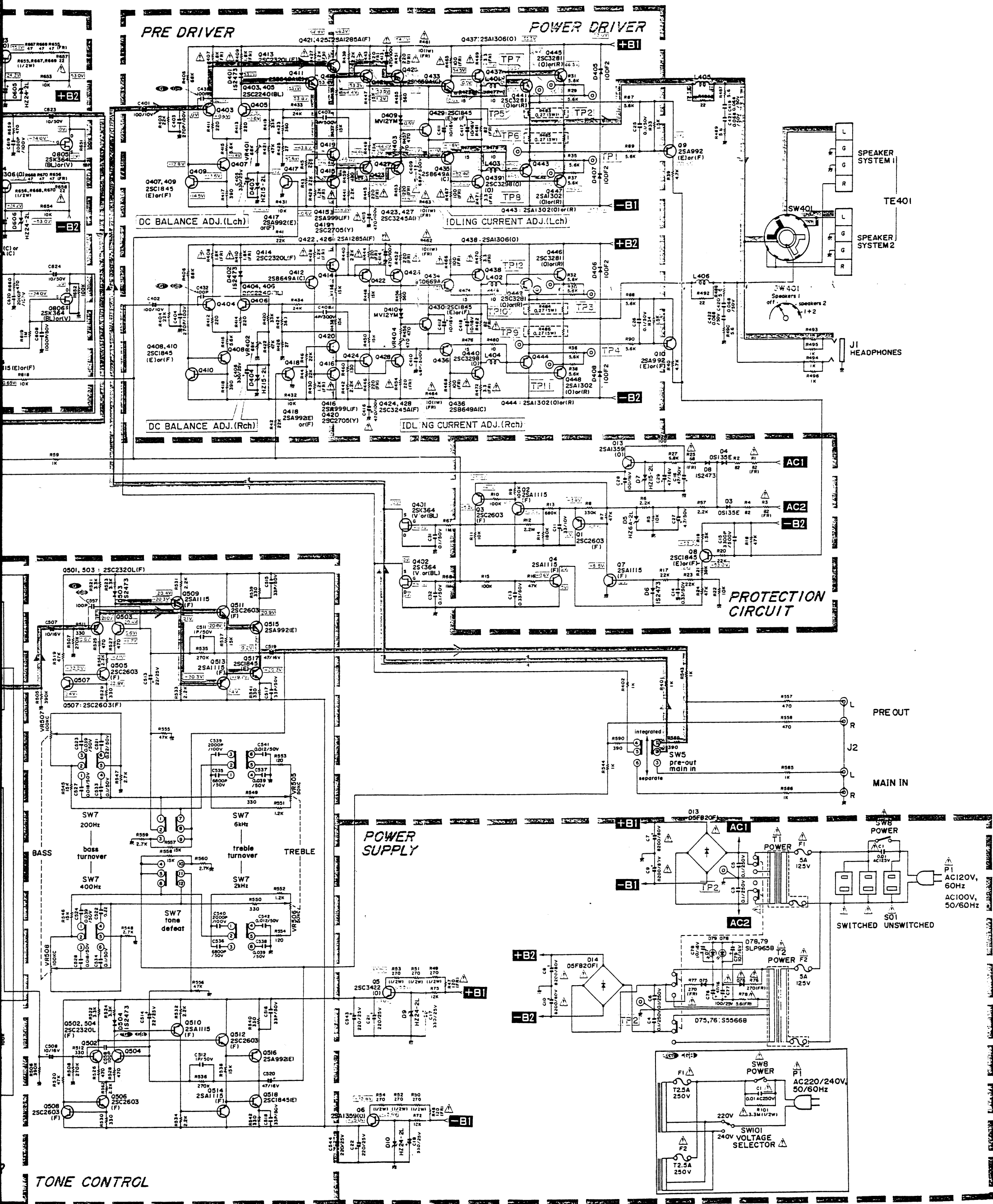


1. ALL RESISTANCES VALUES ARE IN  $\Omega$ .  
K $\Omega$ =1000 $\Omega$ , M $\Omega$ =1000K $\Omega$ .
2. THE WATTAGE OF RESISTORS IS 1/4W UNLESS OTHERWISE NOTED.
3. ALL CAPACITANCES VALUES ARE IN  $\mu$ F UNLESS OTHERWISE NOTED. P= $\mu$ F
4. ... V : DC VOLTAGE AT NO SIGNAL
5. SAFETY-REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESEN' SAFETY REGULATIONS. THESE COMPONENTS MUST ONLY BE REPLACED BY ORIGINAL PARTS.

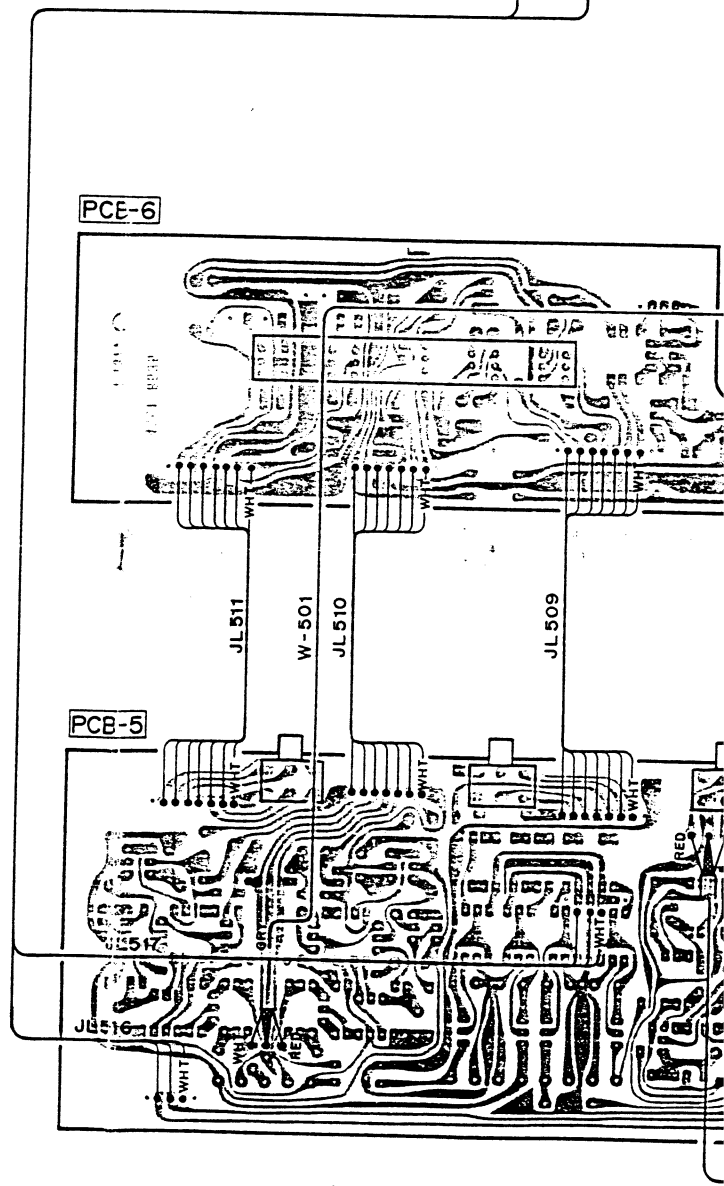
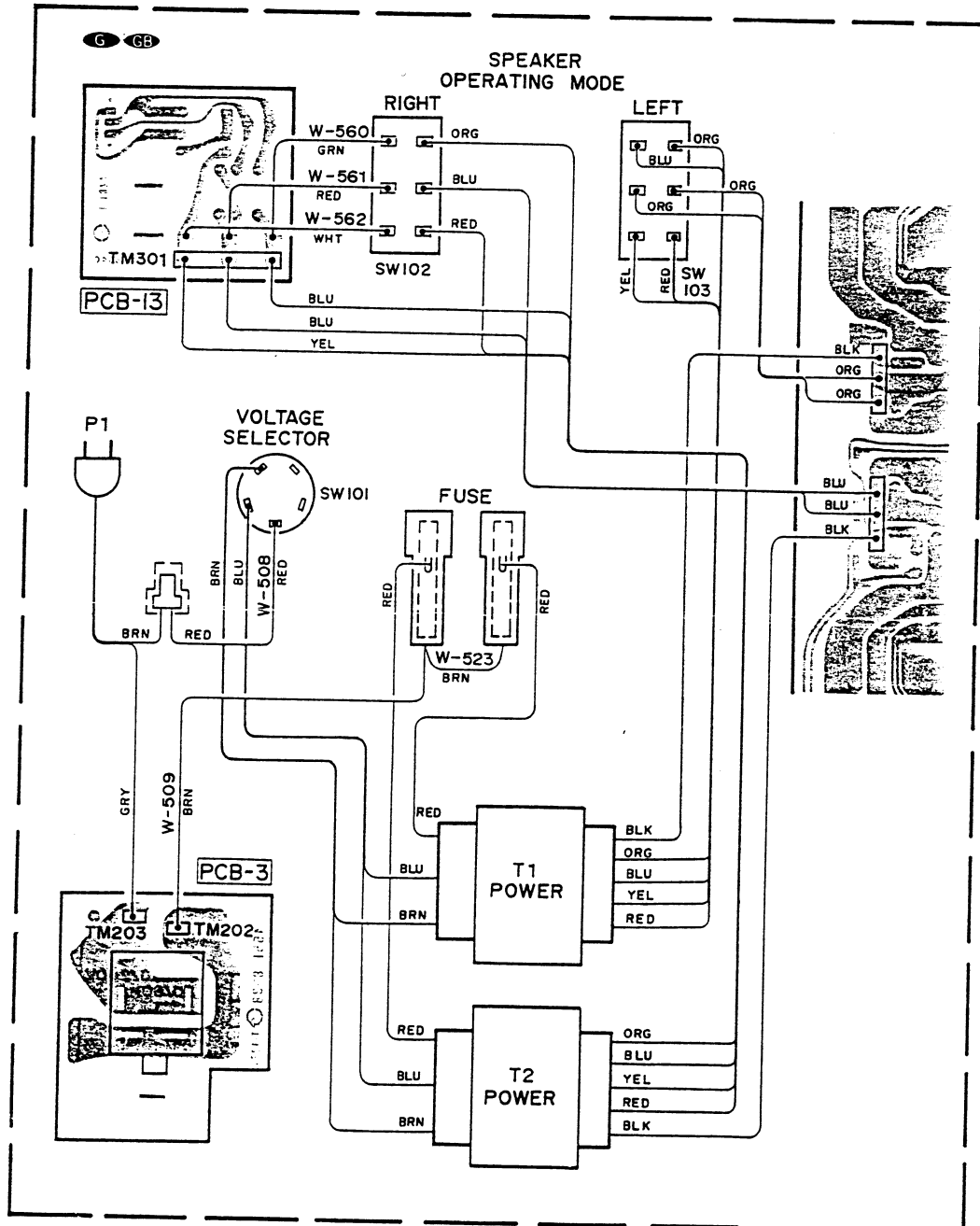
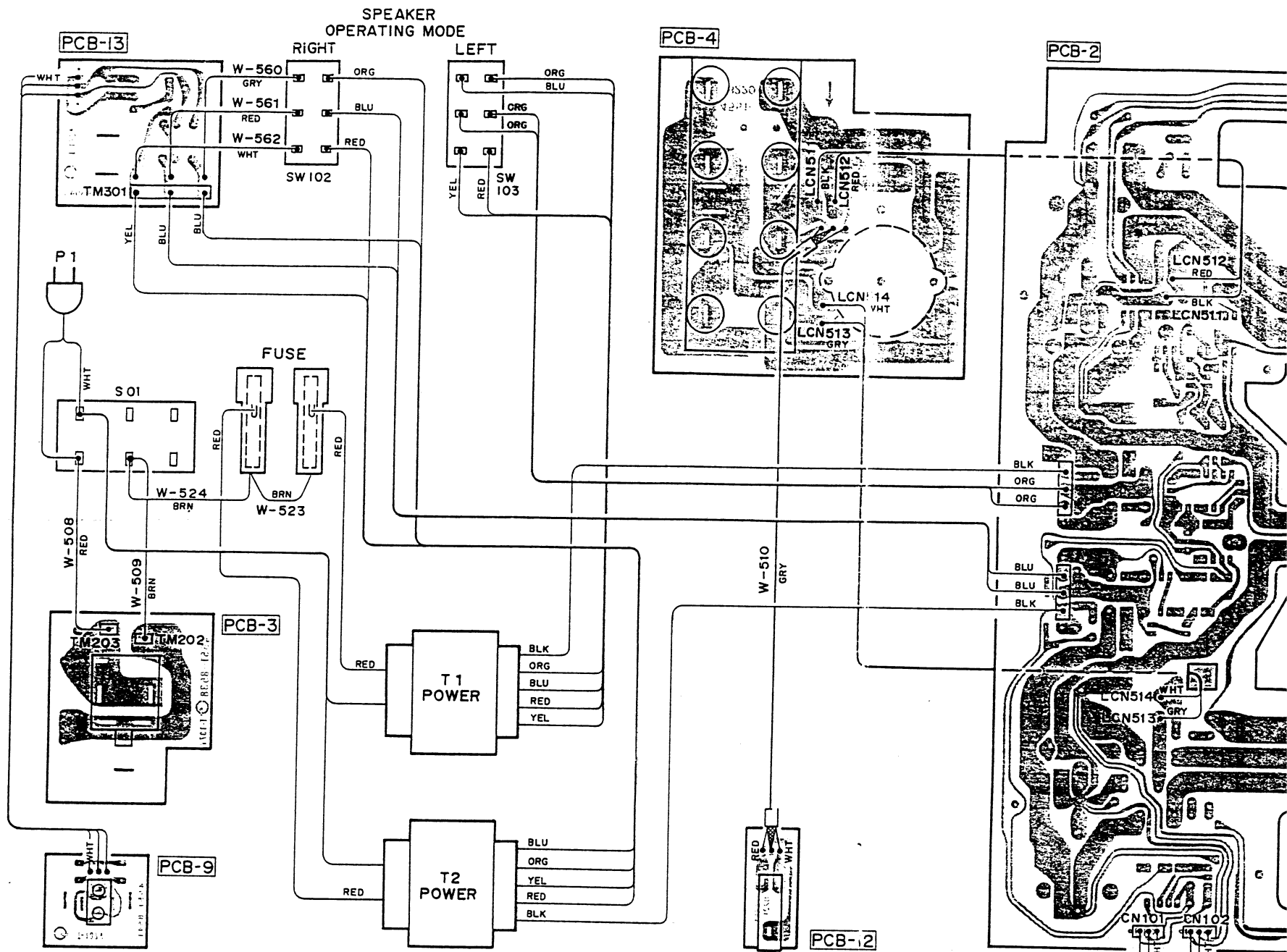
BASS CONTOUR  
CIRCUIT

TONE CON

F G H I J K



## WIRING DIAGRAM



- **WIRE COLOR ABBREVIATIONS**  
RED : Red      YEL : Yellow  
ORG : Orange   PUP : Purple  
BLU : Blue      PIK : Pink  
WHT : White     GRY : Gray  
GRN : Green     BRN : Brown  
BLK : Black



