

CARVER

Powerful • Musical • Accurate

AV-405 5-CHANNEL POWER AMPLIFIER SERVICE MANUAL

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Printed in Taiwan

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SAFETY INFORMATION

WARNING.

Any person performing the procedures described in this manual will be exposed to hazardous voltages and the risk of electric shock.

Carver Corporation assumes that any person who removes the cover from the unit has been properly trained in protecting against avoidable injury and shock.

Therefore, the procedures described here are to be performed by qualified electronics service personnel only.

We recommend that the unit be tested only when line isolation is provided by an isolation transformer. The line cord of the unit must be disconnected and the power supply fully discharged before any components are replaced. Failure to do so may result in severe damage to the unit and the risk of electric shock.

The safety tests described below must be performed properly.

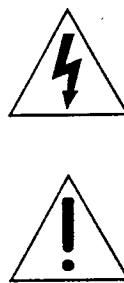
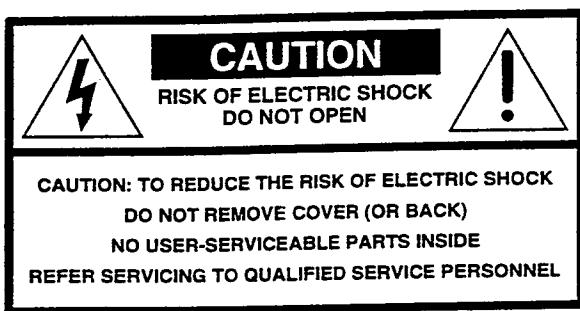
CAUTION:

Before returning the unit to the customer, one of the following safety tests must be performed.

1. Check the leakage current. Connect the unit to 120 VAC supply and turn the power switch "ON". Using an ammeter, measure the current between the neutral side of the AC supply and chassis ground of the unit under test. If leakage current exceeds 0.5mA, the unit is defective.
Reverse the polarity of the AC supply and repeat.
2. Measure the resistance from either side of the linecord to chassis ground. If it is less than 500k ohms, the unit is defective.

WARNING - DO NOT return the unit to the customer if it fails one of these tests until the problem is located and corrected.

CAUTION



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to 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.

SPECIFICATIONS

AV-405 Specifications

Power Output:		IM Distortion:	<0.1%
Continuous Average Output Power, all channels driven:			
FRONT:	100 watts per channel into 8Ω from 20 Hz to 20 kHz, with no more than 0.2% THD	THD:	<0.2%
CENTER:	110 watts into 8Ω from 20 Hz to 20 kHz, with no more than 0.2% THD	Signal-to-Noise Ratio:	> 95 dB A-weighted, referenced to rated power > 75 dBW A-weighted, referenced to 1W
SURROUND:	50 watts per channel into 8Ω from 20 Hz to 20 kHz, with no more than 0.2% THD	Slew Rate:	>10V/µS
Dynamic Headroom:	1.5 dB @ 8 Ω	Power Consumption:	45W at idle 300W with musical program 775W at full power into 8 ohms (continuous)
Frequency Response:	20Hz to 20kHz (+0,-0.5 dB)	Power Requirements:	120VAC/60Hz (USA and Canada) Other voltages as required for export
Crosstalk:	> 50dB @ 1kHz	Size (H x W x D):	4.4" x 19" x 15" 112mm x 483mm x 381mm with handles 4.4" x 17" x 13.75" 112mm x 432mm x 350mm without handles
Damping Factor:	> 80 nominal	Net Weight:	30 lbs. (13.6 kgs)
Input Impedance:	39 kilohms	Shipping Weight:	35 lbs. (15.9 kgs)
Sensitivity FRONT/CENTER: 1V rms for rated power into 8 ohms at 1 kHz (± 0.5 dB) 100mV for 1W into 8Ω (± 0.5 dB)		Carver constantly strives to incorporate new methods, materials, and technologies in order to further improve the quality of our products. Thus all specifications are subject to change without notice.	
SURROUND: 0.7V rms for rated power into 8 ohms at 1 kHz (± 0.5 dB) 100mV for 1W into 8Ω (± 0.5 dB)			
Gain:	29 dB (± 1.0 dB)		
Input to Output Phase:	0° ($\pm 20^\circ$) 20Hz - 20kHz (Front/Center) 0° ($\pm 35^\circ$) 20Hz - 20kHz (Surround)		

DISASSEMBLY INSTRUCTIONS

Top Cover

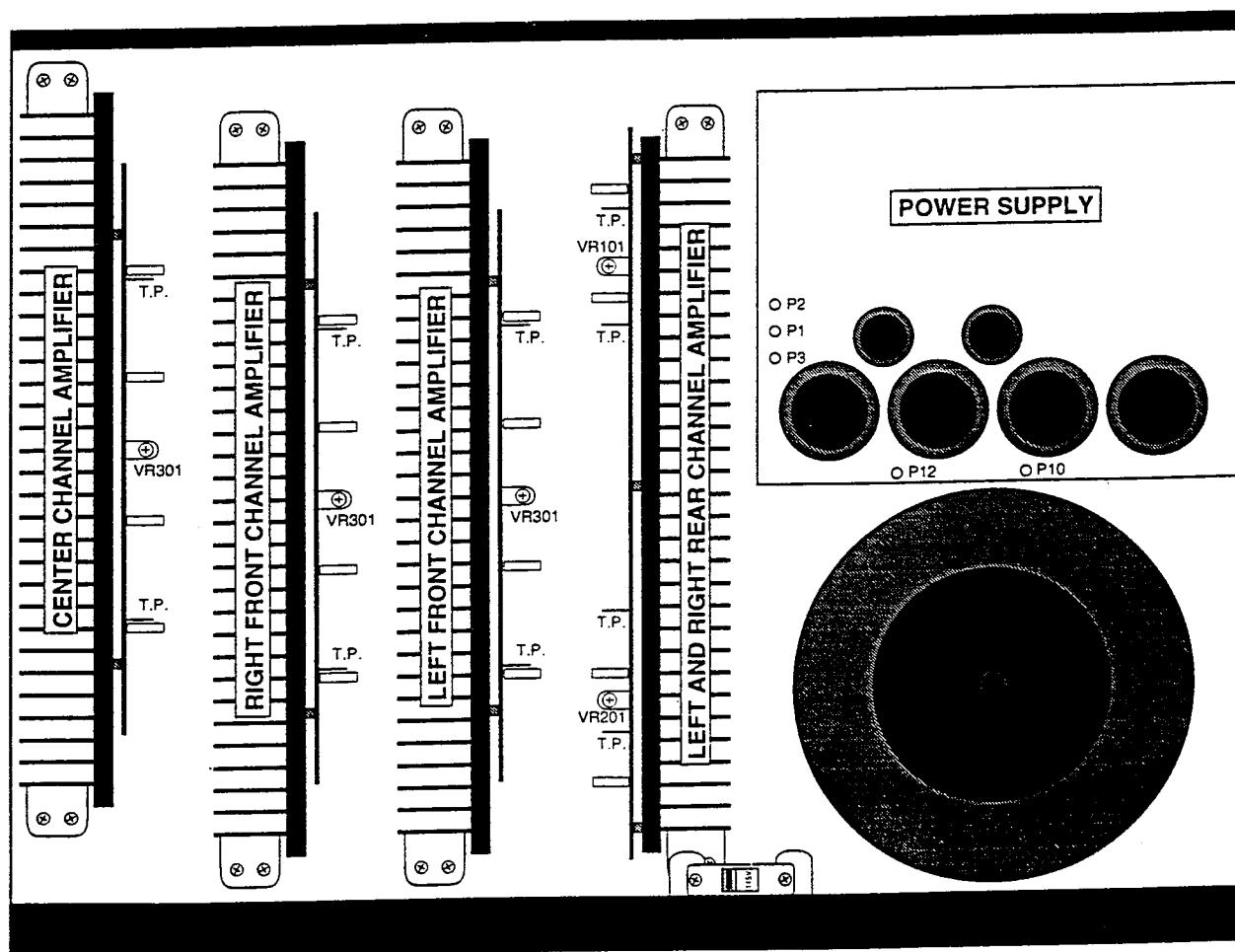
1. Remove 4 screws from each side (3 screws from each handle and 1 screw from rear of side).
2. Remove 3 screws from the top of the rear panel.
3. Lift up top cover and remove.

Left and Right Rear Amp Module

1. Remove 1 screw from bottom panel, securing Amp Module to bottom panel.
2. Remove 2 screws from the Voltage Conversion Switch and slide it out of its bracket.
3. Remove 4 screws from the inside (2 screws on each end of the Amp Module).

Center, Left and Right Front Amp Module

1. Remove 1 screw from bottom panel, securing Amp Module to bottom panel.
2. Remove 4 screws from the inside (2 screws on each end of the Amp Module).



AV-405 Internal View

ADJUSTMENT PROCEDURE

AV-405

Voltage Verification

With no signal and no load verify the following DC voltages (referenced to chassis ground):

1. On the Power Supply Board (03-01468-01):

V+1 at P10	+56VDC (+/-1.5V)
V-1 at P12	-56VDC (+/-1.5V)
V+2 at P2	+42.5VDC (+/-1.5V)
V-2 at P3	-42.5VDC (+/-1.5V)

Idle Bias Adjust

With no signal and no load:

1. On the Center Amplifier Board (03-01464-01):

Connect a DC Voltmeter across T.P. at the emitter of Q316 and T.P. at the emitter of Q312.
Adjust VR301 for 2.0mV DC ($\pm 1.0\text{mV}$) as measured on the DC Voltmeter.
Repeat for the Left and Right Front Amplifier Boards.

2. On the Left and Right Rear Amplifier Board (03-01463-01):

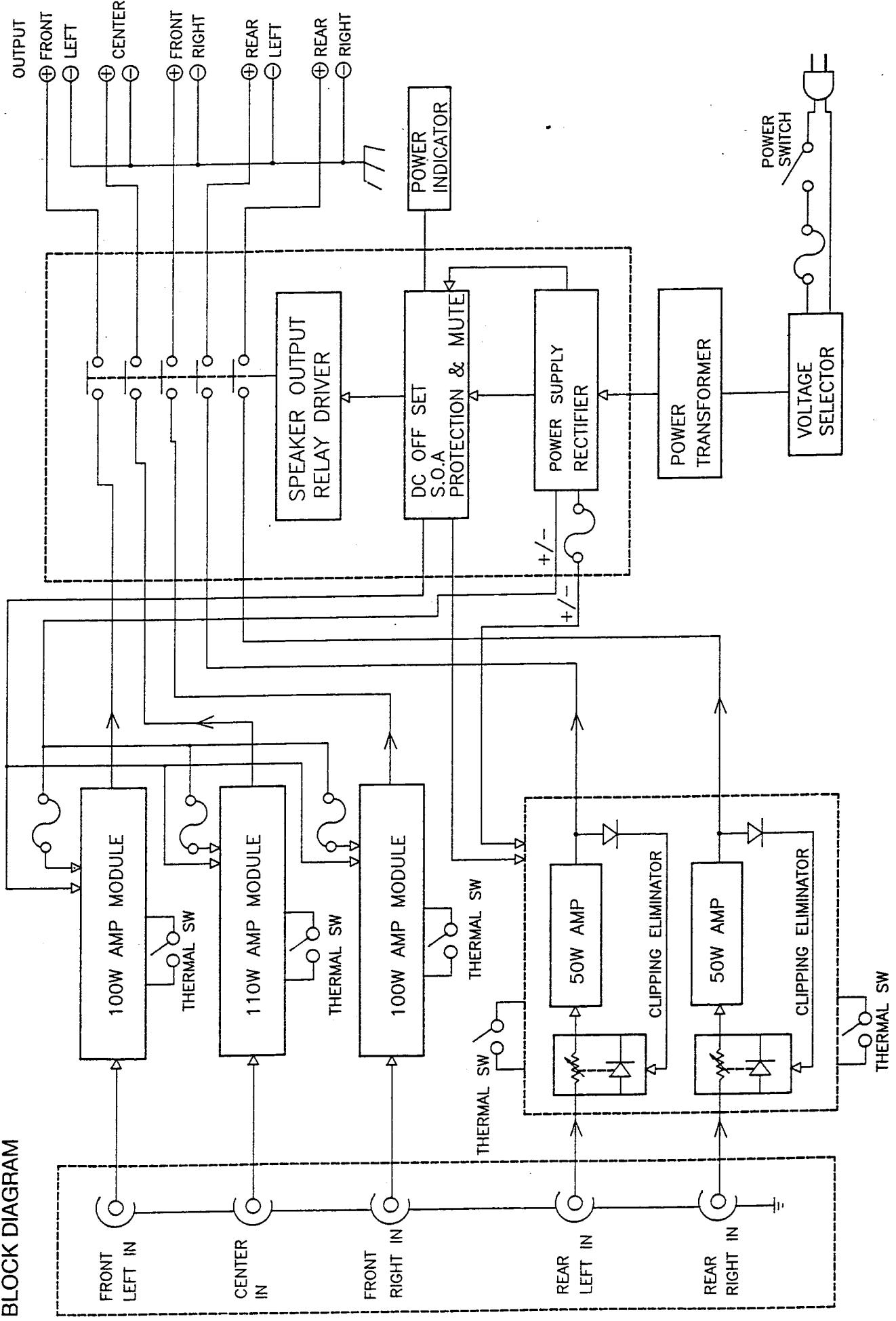
Connect a DC Voltmeter across the emitters of Q111 and Q114.
Adjust VR101 for 4.0mV DC ($\pm 2.0\text{mV}$) as measured on the DC Voltmeter.
Connect a DC Voltmeter across the emitters of Q211 and Q214.
Adjust VR201 for 4.0mV DC ($\pm 2.0\text{mV}$) as measured on the DC Voltmeter.

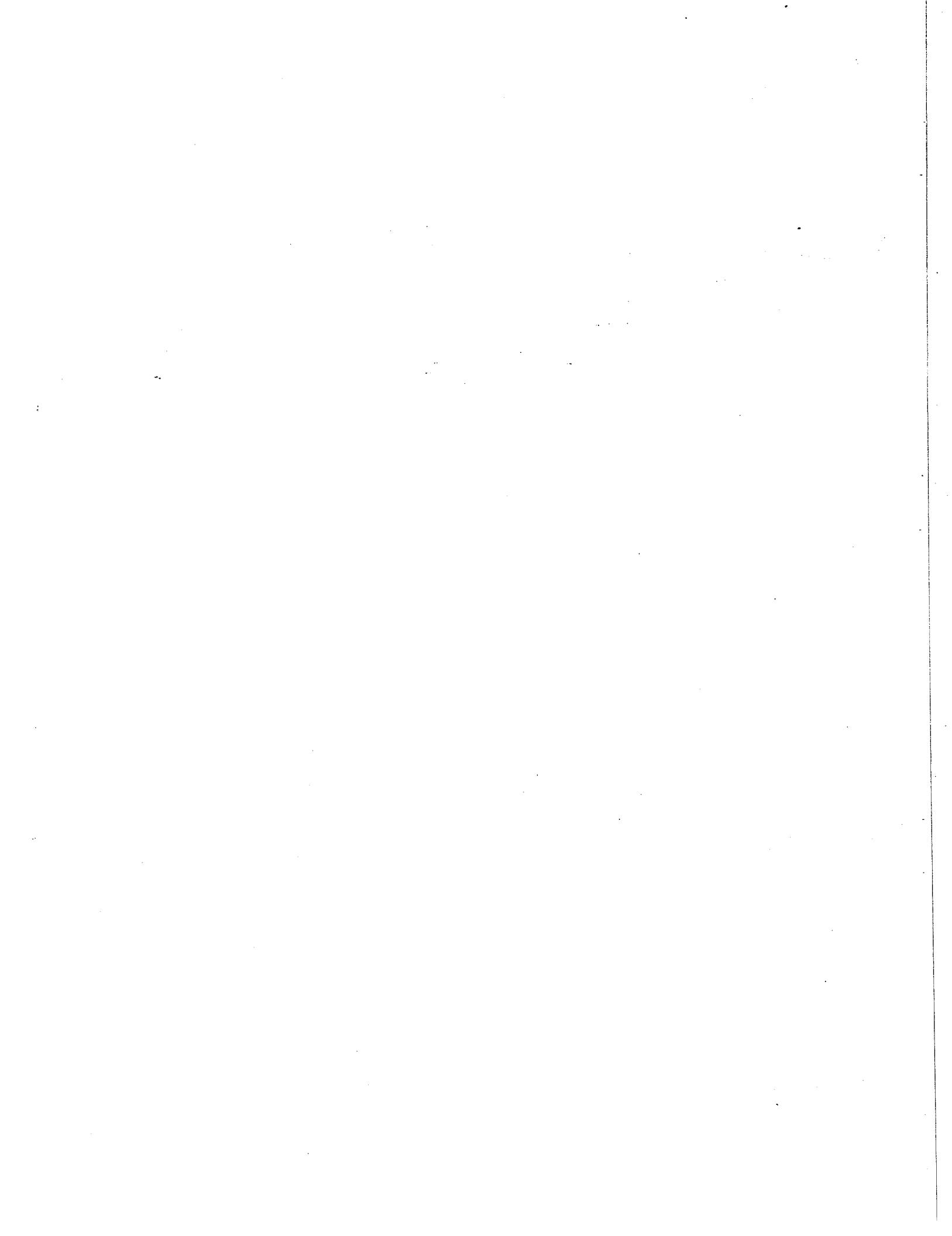
Note: These adjustments should be made after the amplifier has warmed up for about 5 minutes.

DC Offset

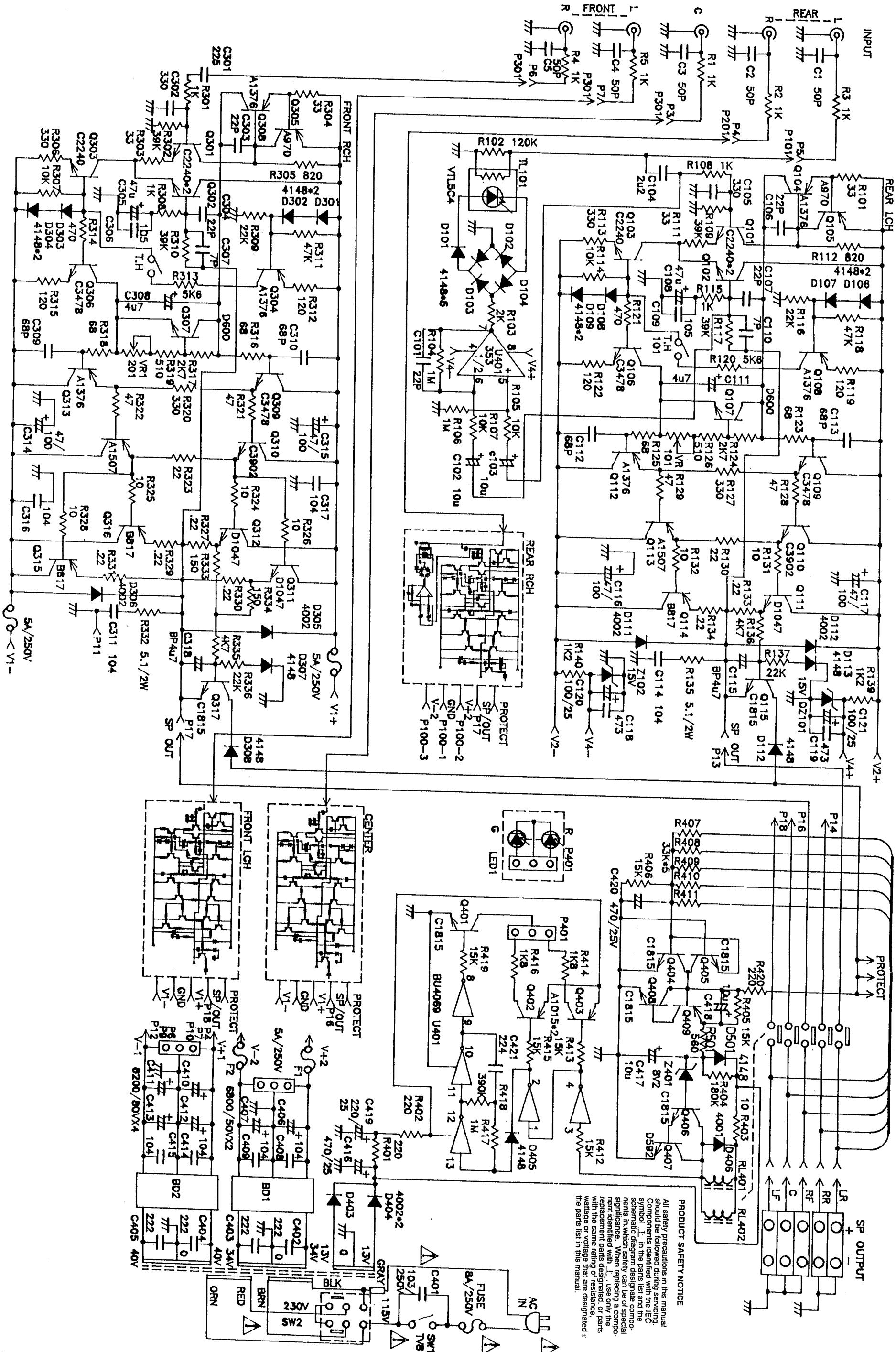
With no signal and no load, measure the DC voltage between the red and black Speaker terminals.
All speaker outputs should measure less than +/-50mVDC.

BLOCK DIAGRAM



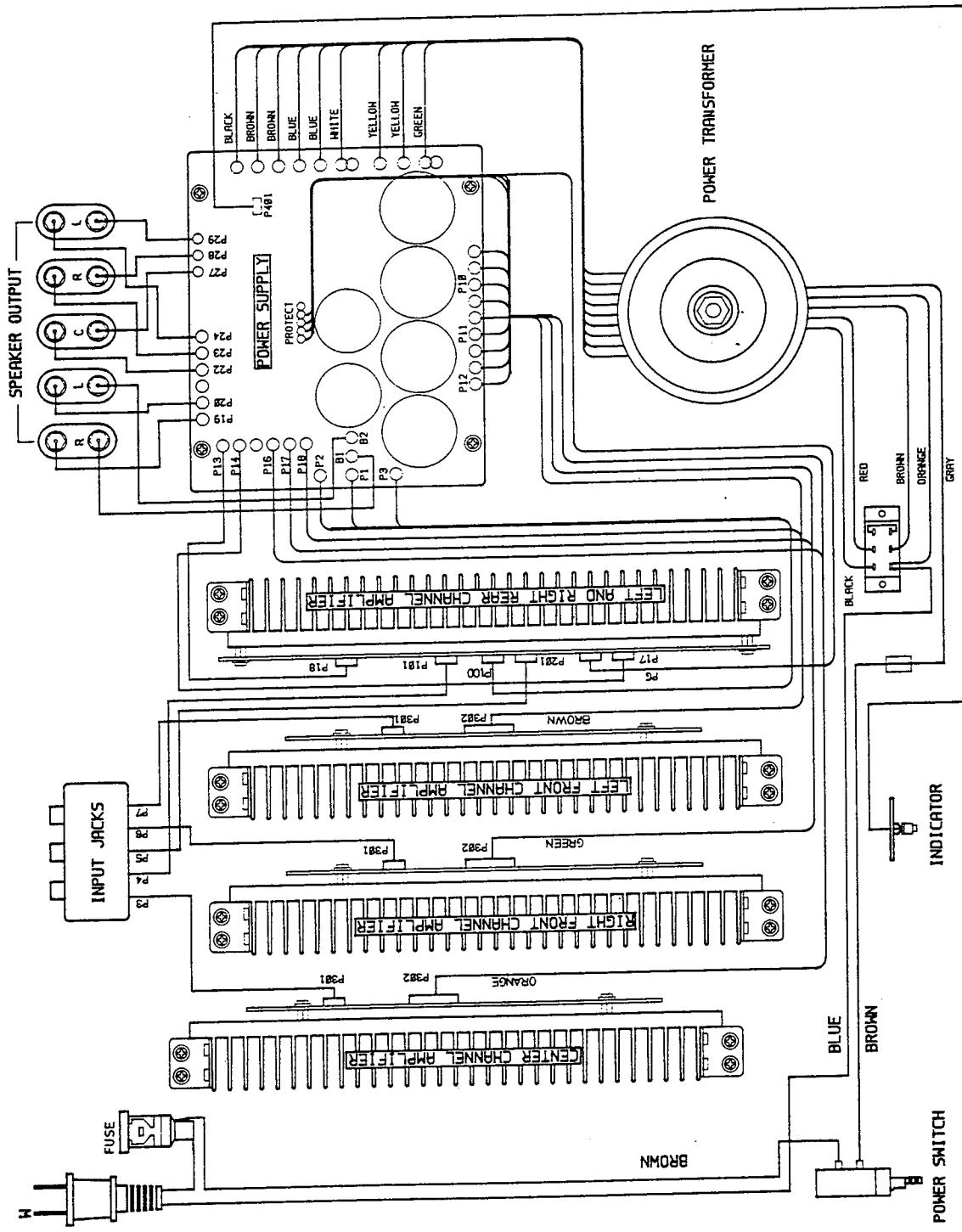


SCHEMATIC DIAGRAM



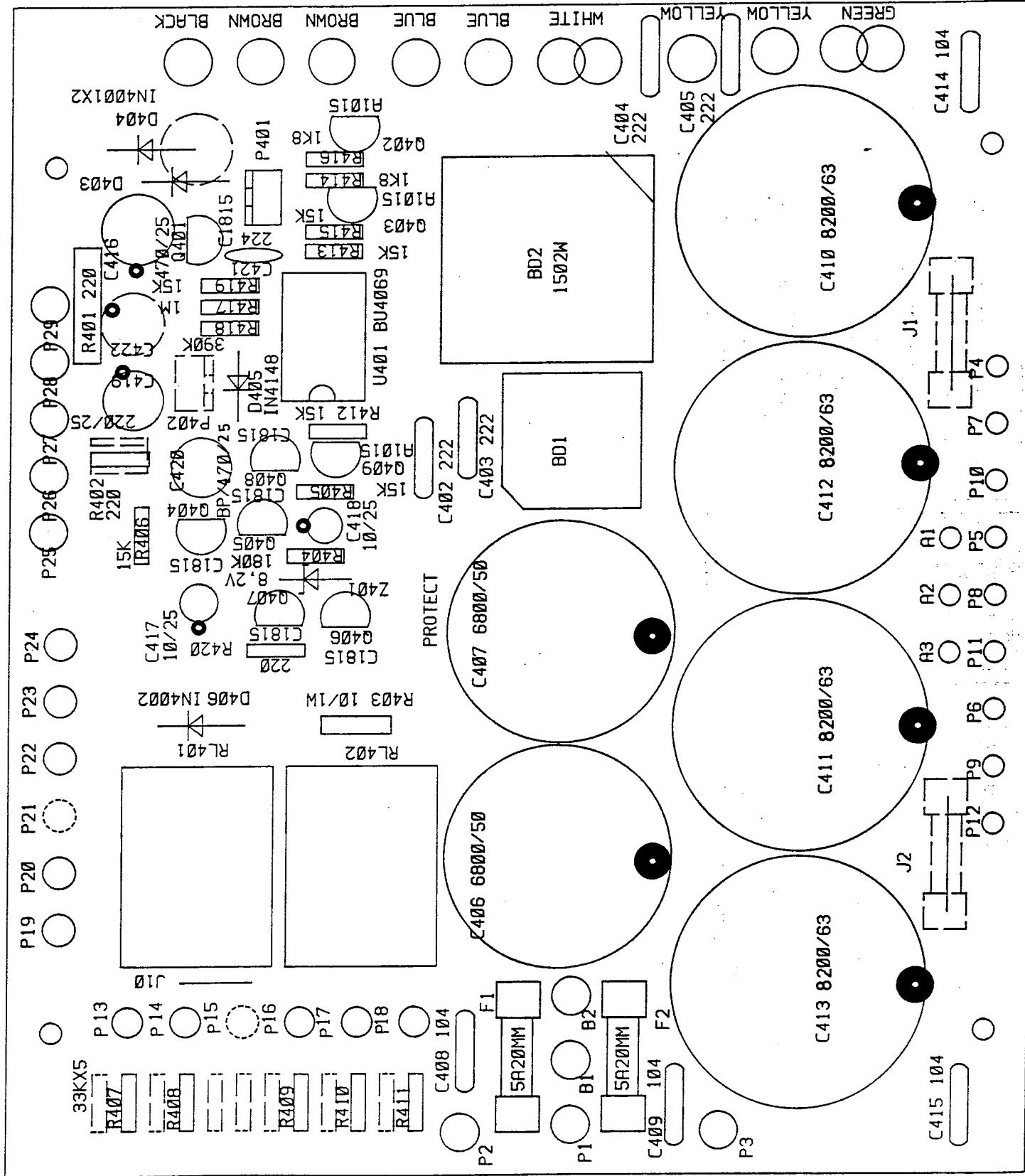


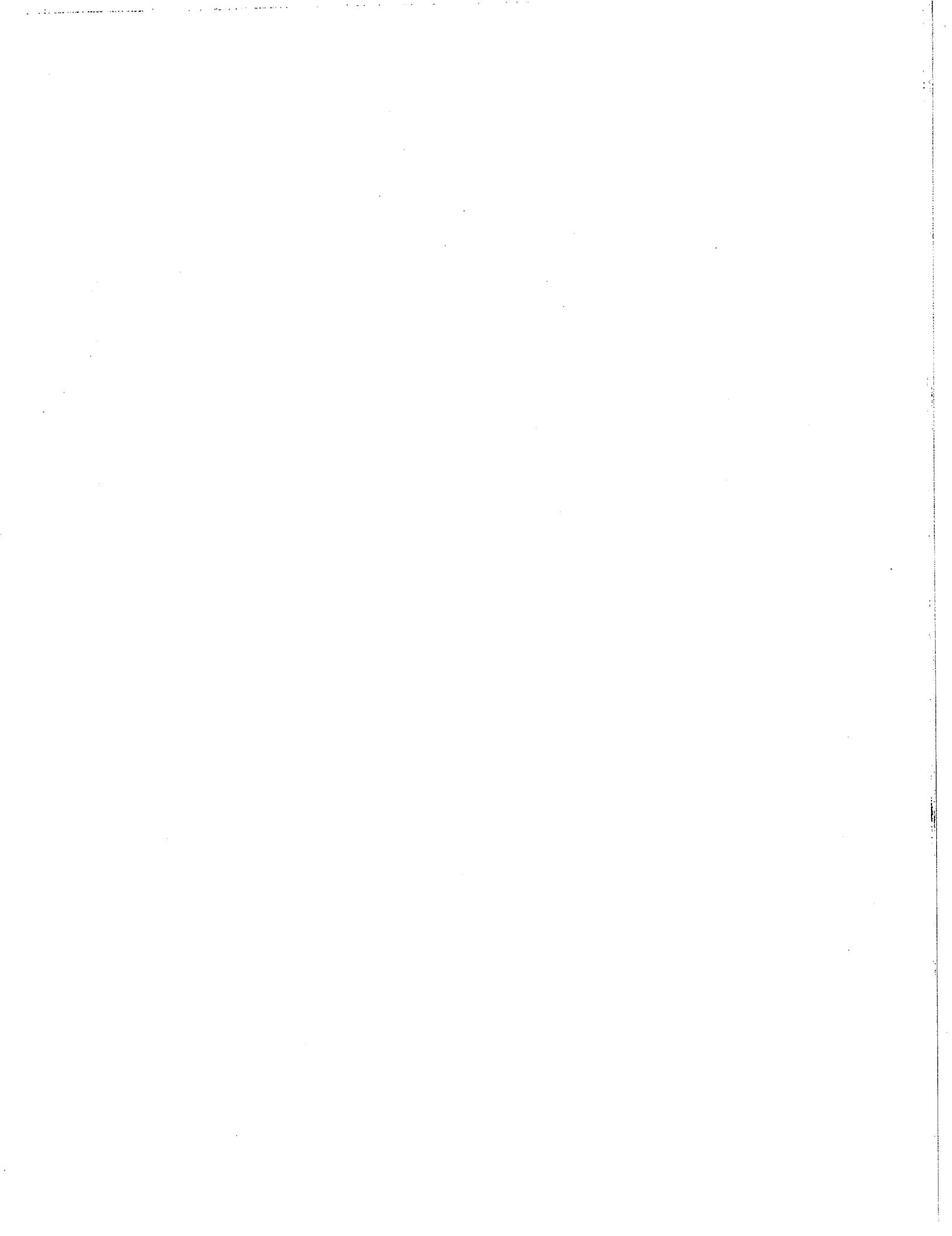
WIRING DIAGRAM

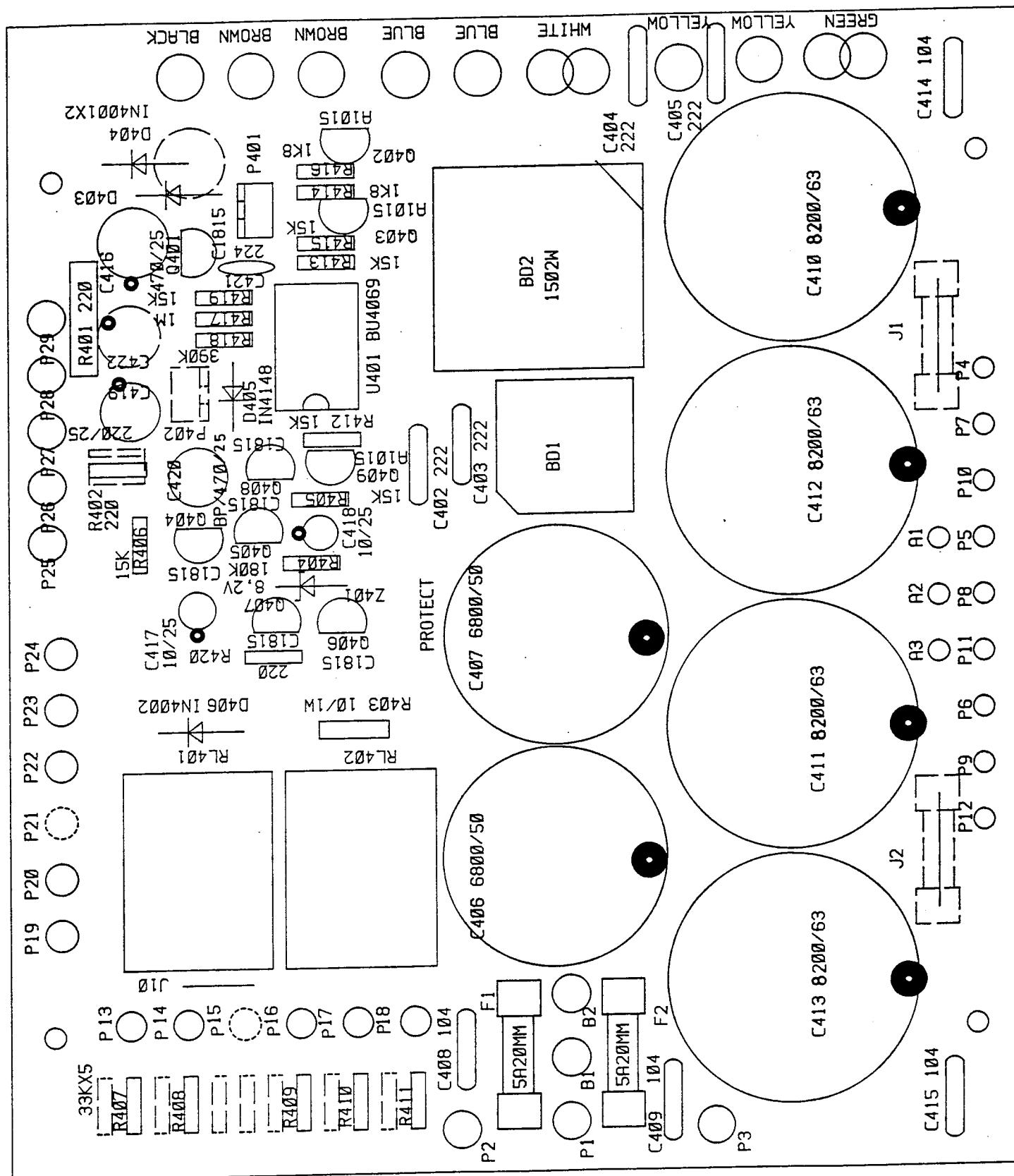


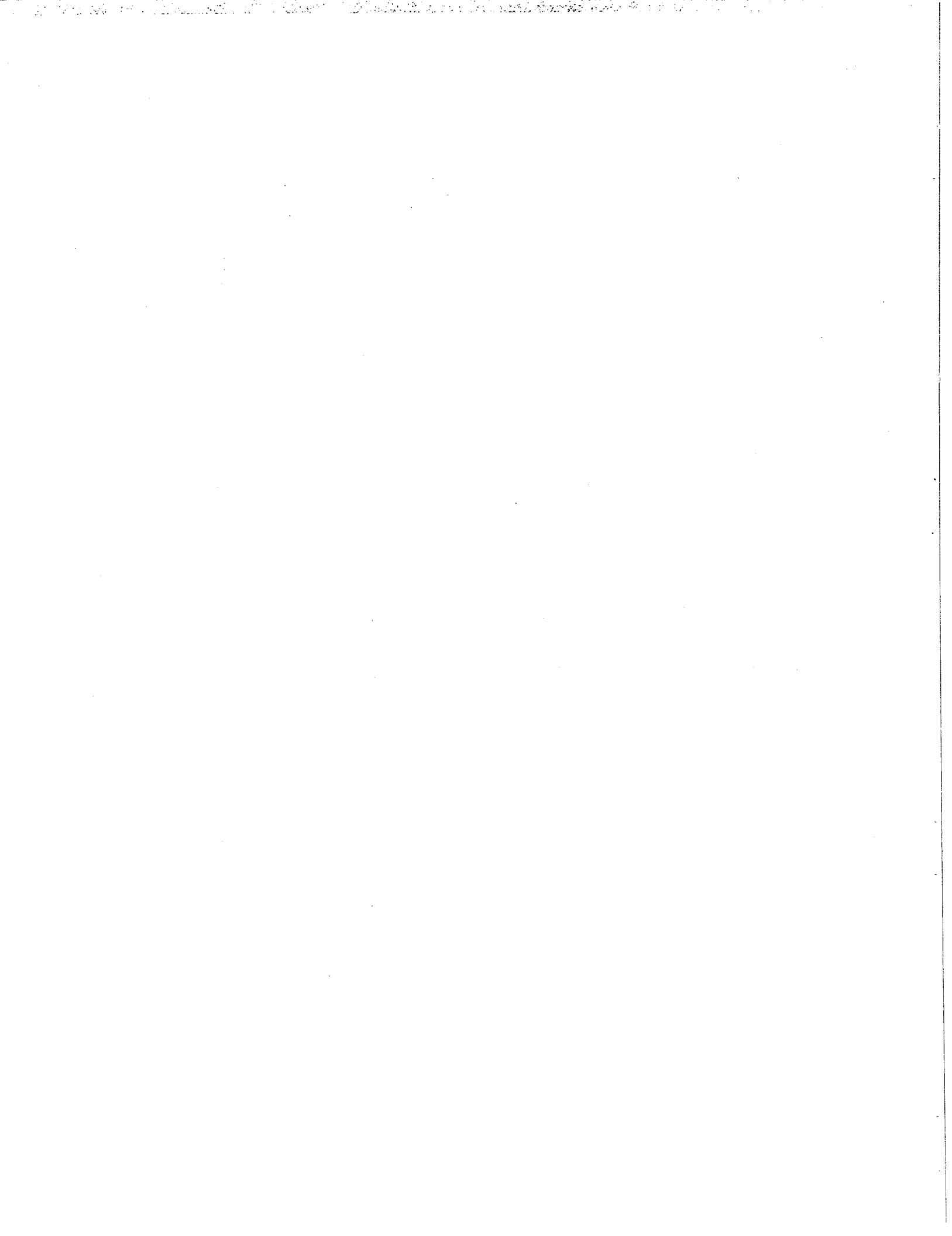


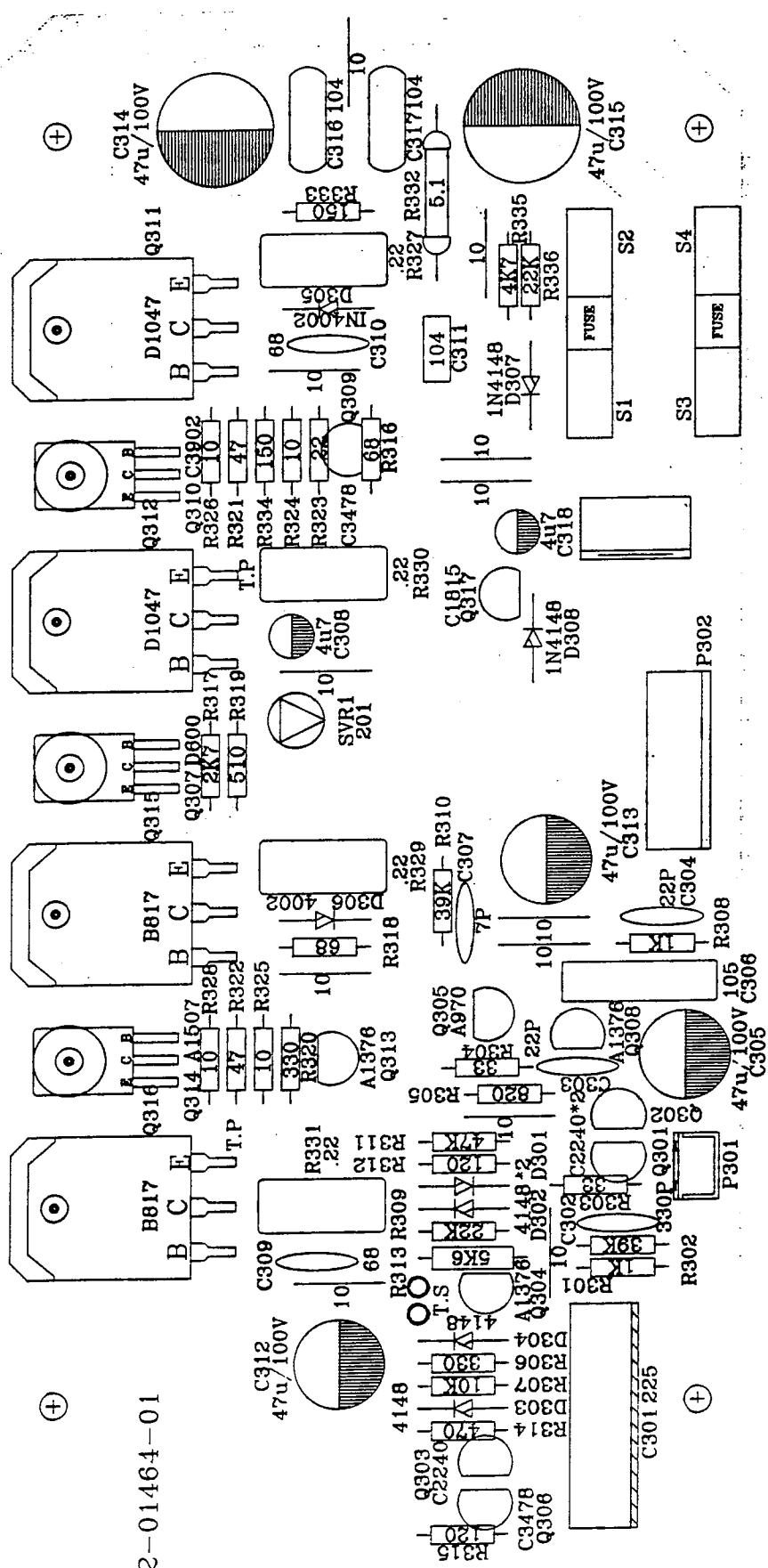
PCB COMPONENT SIDE VIEWS

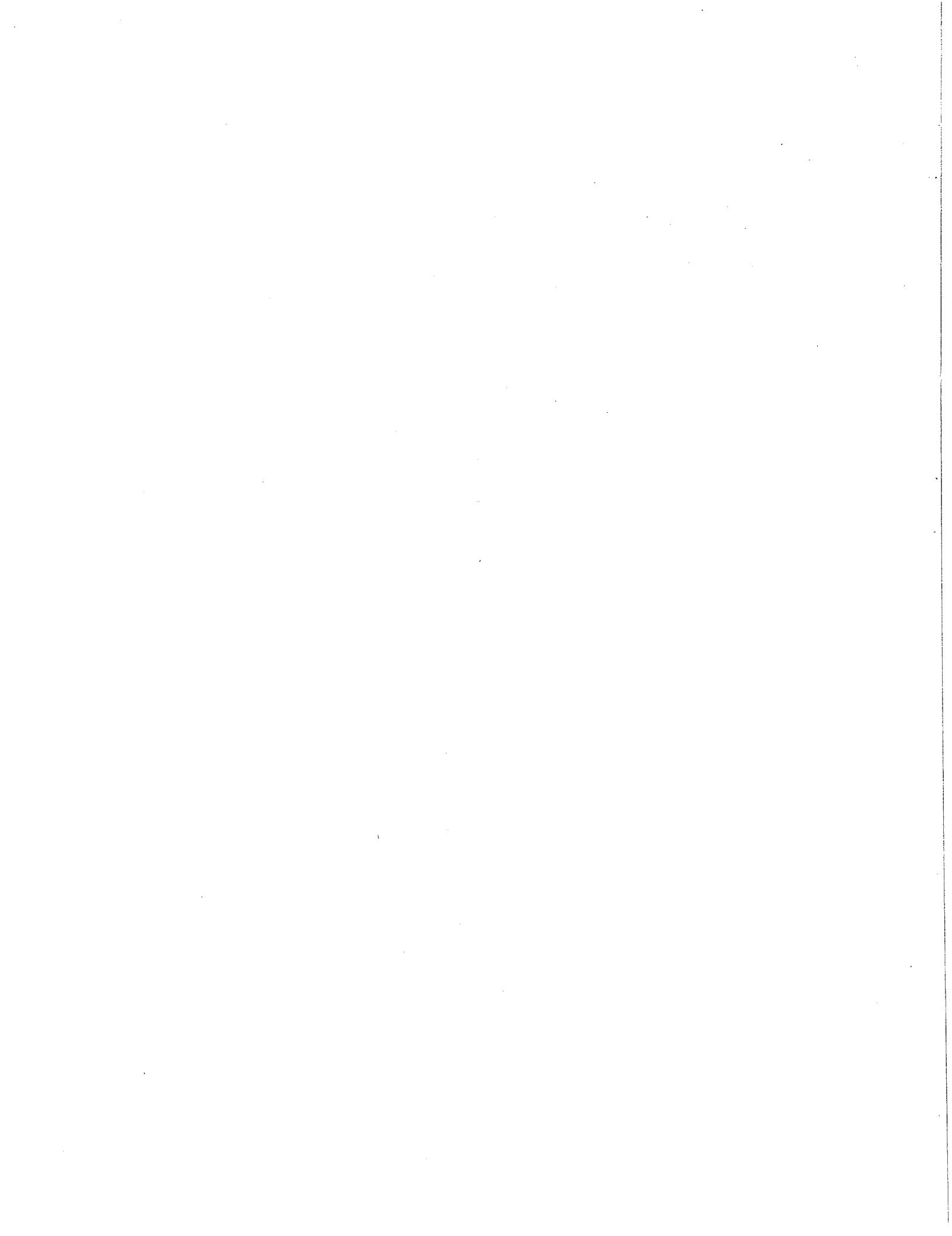


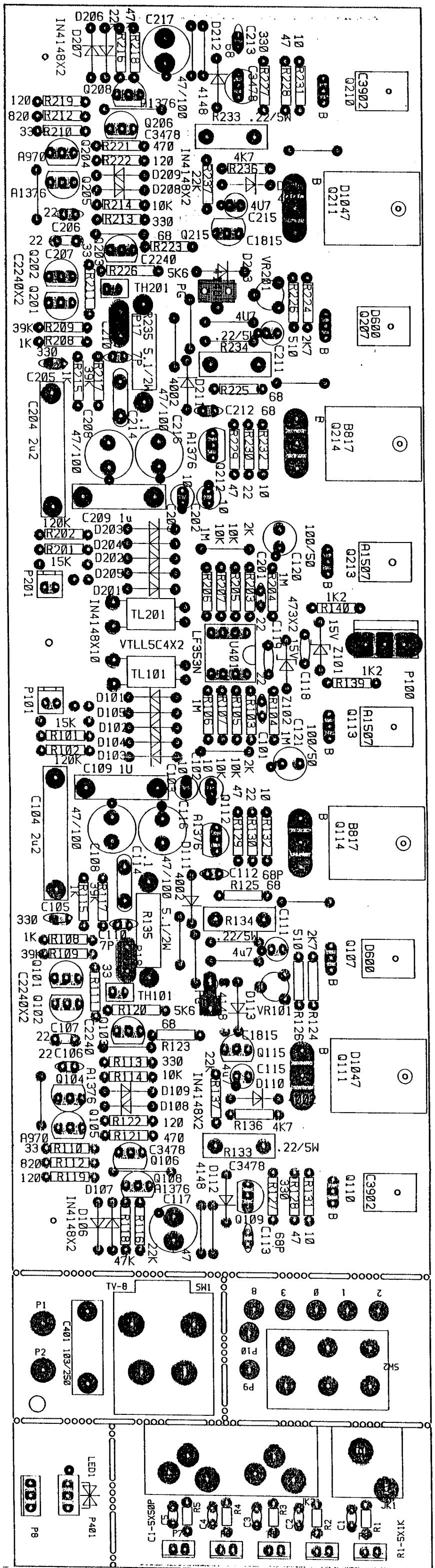






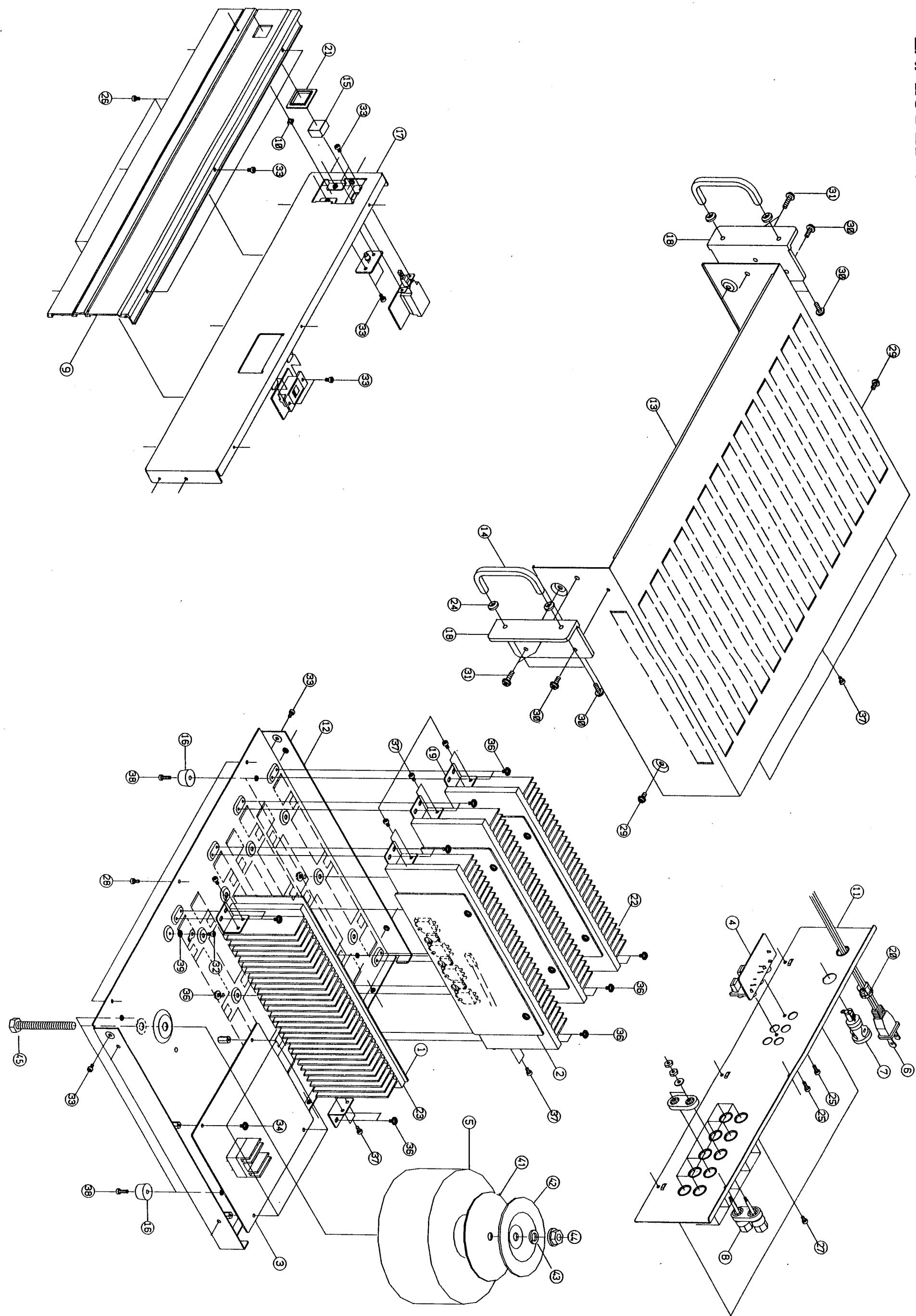




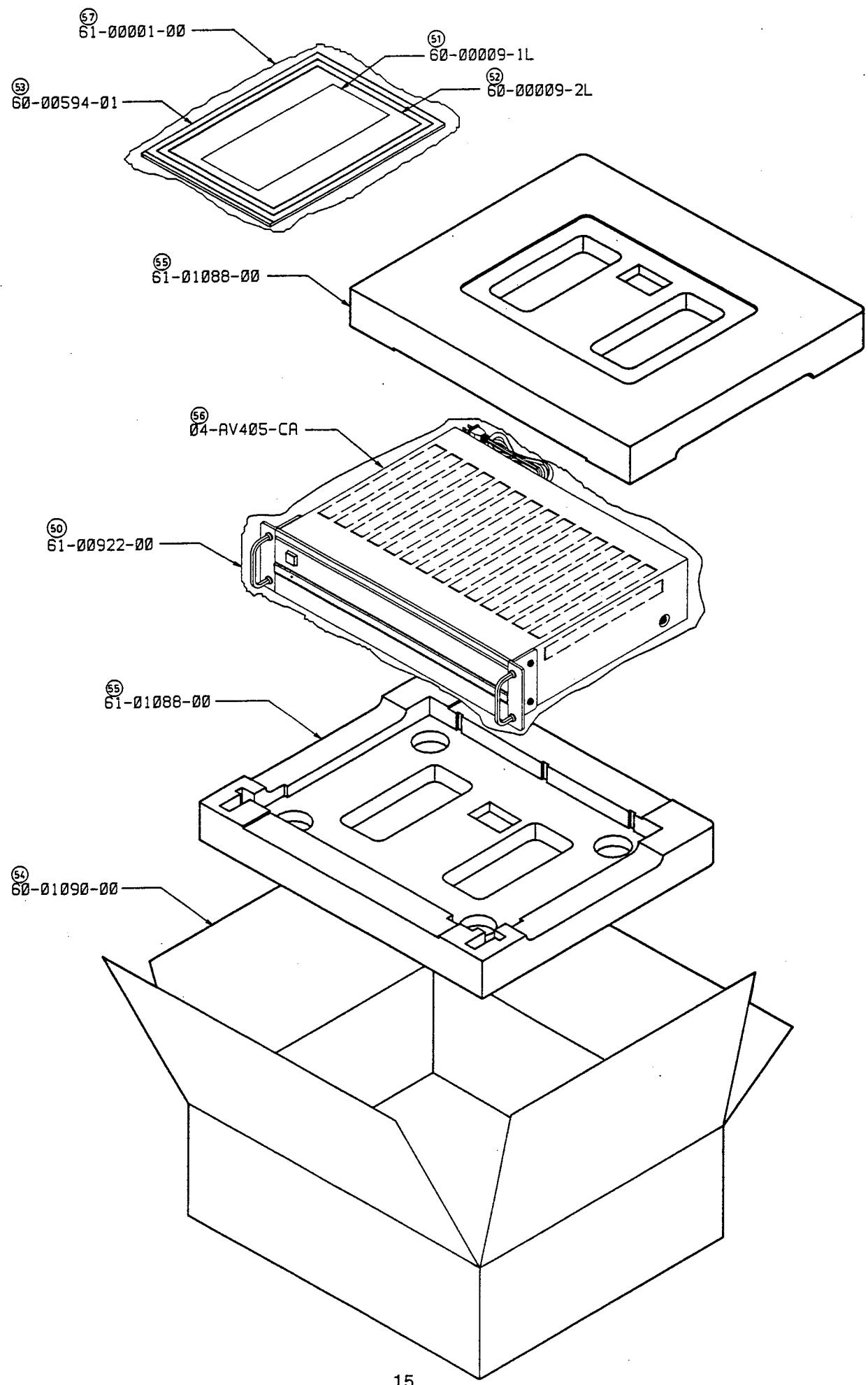




EXPLODED VIEW









PARTS ORDERING

Please provide the Model numbers of the units involved when ordering genuine CARVER replacement parts. Also provide the CARVER part number and the generic part number to confirm the correct part needed.

The Carver Parts Department is open Monday thru Friday, 7:00 a.m. to 4:45 p.m. PST.

The following phone number is to be used for part orders only!

Technical assistance is not available on this line.

1-800-433-0547

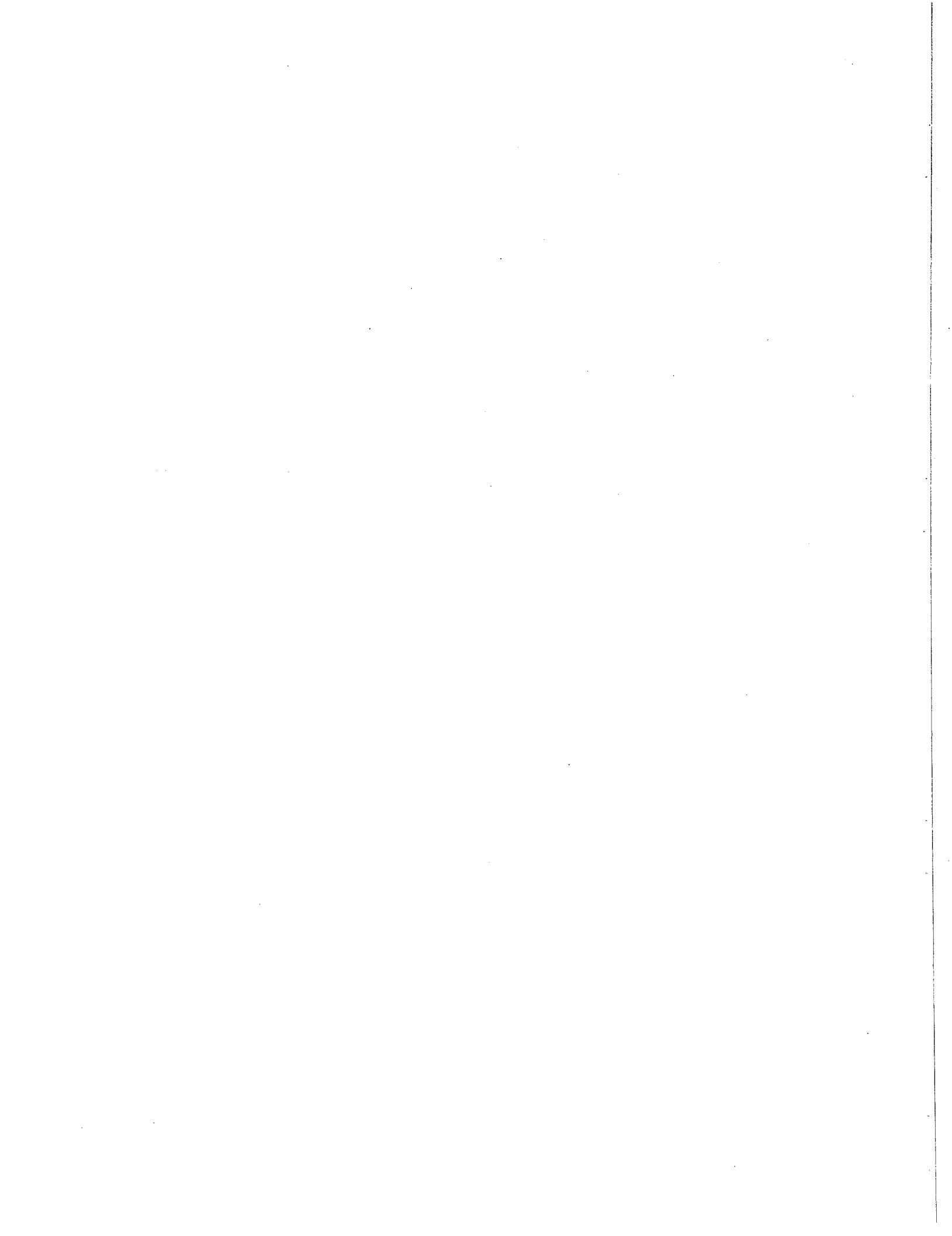
Or if you prefer to FAX in your part order, please use the following FAX number:

1-206-775-9180

From time to time, when it is necessary, we may make a substitution for the original part ordered, due to circuit revisions or part availability.

Random deviation from the original CARVER designated part is not recommended!

Complete PCB replacement is not recommended. You must have prior approval for warranty repair should PCB replacement be necessary.



**PARTS LIST
EXPLODED VIEW**

ITEM	PART NO.	PART NAME	Q'TY	REMARK
1	03-01483-01	PCB ASS'Y	1	
2	03-01484-01	PCB ASS'Y	3	
3	03-01488-01	P.S. PCB ASS'Y	1	
4	03-01489-01	RCA JACK/SH/LED	1	
5	15-02243-01	TRANSFORMER	1	
6	21-02138-01	AC CORD	1	
7	26-02258-01	FUSE HOLDER	1	
8	28-02279-01	SP TERMINAL	5	
9	51-01012-00	AL PLATE	1	
10	51-01019-00	INDICATE PLATE	1	
11	52-00791-00	REAR COVER	1	
12	52-00799-00	BOTTOM COVER	1	
13	52-00882-00	TOP COVER	1	
14	53-00479-00	HANDEL	2	
15	53-00489-00	PUSH BUTTON	1	
16	54-00058-00	RUBBER FOOT	4	
17	54-00015-00	FRONT BRACKET	1	
18	54-00016-00	HANDEL BRACKET	2	
19	54-00018-00	BRACKET	8	
20	55-00117-00	CORD BUSHING	1	
21	55-00953-00	SOCKET	1	
22	56-00433-00	HEAT SINK	3	
23	58-00434-00	HEAT SINK	1	
24	58-00168-00	COLLAR	4	
25	S2-PP430-08	TAPPING SCREW	2	M3, 0X0 2N
26	SM-FP430-05	MACHINE SCREW	2	M3.0P0.5×5
27	SM-PP430-05	MACHINE SCREW	3	M3.0P0.5×5
28	SM-PP430-06	MACHINE SCREW	3	M3.0P0.5×6
29	SM-PP440-W6	MACHINE SCREW	2	M4.0P0.7×W8
30	SM-PP44W-10	MACHINE SCREW	6	M4..0P0.7×10.0w
31	SM-PP44W-14	MACHINE SCREW	4	M4.0P0.7×14 P +
32	SM-PP530-04	MACHINE SCREW	1	M3.0P0.5×4
33	SM-PP530-05	MACHINE SCREW	19	M3.0P0.5×5
34	SM-PP530-W5	MACHINE SCREW	4	M3.0P0.5×W5
35	SM-PP540-W6	MACHINE SCREW	4	M4.0P0.7×6.0W
36	SM-PP530-W4	MACHINE SCREW	18	M3.0P0.5×4.0W
37	ST-PP430-05	MACHINE SCREW	11	M3.0X5.0 P +
38	ST-PP43H-10	MACHINE SCREW	4	M3.0W×10
39	WG-00330-00	GEAR WASHER	1	M3.0
40	29-02231-08	FUSE 8A SLO-BLO	1	115V VERSION ▲
40	29-02231-04	FUSE 4A SLO-BLO	1	230 VERSION ▲
41	32-02128-01	RUBBER INSULATOR	1	
42	54-00830-00	TRANSFORMER BRACKET	1	
43	WS-57066-00	SPRING WASHER	1	
44	NM-OH57000	NOT M8F	1	
45	SM-HP480-70	MACHINE SCREW	1	M8.0×70
50	61-00922-00	PLASTIC BAG	1	1
51	60-00009-1L	WARRANTY CARD	1	1
52	60-00009-2L	REGISTRATION CARD	1	1
53	60-00594-01	OWNER'S MANUAL	1	1
54	60-01090-00	CARTON	1	1
55	61-01088-00	SNOW BOX	2	2
56	04-AV405-CA	CARVER AMP	1	1
57	61-00001-00	PLASTIC BAG	1	1

POWER SUPPLY PCB ASS'Y

REF NO.	Q'TY	PARTS NO.	DESCRIPTION		
PCB	1	02-01468-01	PCB	165 × 140 × 1.6tmm	
R417	1	08-41055-03	RES	1M	1/4W
R405, R406, R412, R13, R415, R419	6	08-41535-03	RES	15K	1/4W
R414, R416	2	08-41825-03	RES	1.8K	1/4W
R404	1	08-41845-03	RES	180K	1/4W
R401, R402, R420	3	08-42215-03	RES	220	1/4W
R407-R411	5	08-43335-03	RES	33K	1/4W
R418	1	08-43945-03	RES	390K	1/4W
R403	1	09-11005-02	RES	10	1W
C417, C418	2	13-00005-06	E/C	10UF	16V
C419	1	13-00005-49	E/C	220UF	25V
C410-C413	4	13-00005-99	E/C	8200UF/80V	
C408, C409, C414, C415	4	13-00006-46	M/C	.1/100V	
C406, C407	2	13-00015-12	E/C	6800UF 63V	
C420	1	13-00015-27	E/C	470UF 25V (NP)	
C402-C405	4	13-01090-08	POLYPROPYLENE	222/250V	
C421	1	13-22246-52	C/C	.22	
C416	1	13-A0005-89	E/C	470UF/25v	
RL402	1	20-02198-01	RELAY	SD205P 12V	
RL401	1	20-02222-01	RELAY	12V 5A	
U401	1	22-01542-01	IC	NJM4069	
Q407	1	23-00920-01	TRANSISTOR	2SD592A.R	
Q401, Q404-Q406, Q408	5	23-01545-01	TRANSISTOR	2SC1815GR	
Q402, Q403, Q409	3	23-01645-01	TRANSISTOR	2SA1015GR	
D405	1	24-00026-05	DIODE	1N4148	
BD401	1	24-00209-01	ZENER DIODE	8.2V 1/2W	
D403, D404, D406	3	24-00654-01	RECTIFIER DIODE	IN4002	
BD2	1	24-02208-01	BRIDGE DIODE	KBPC1502w	
BD1	1	24-02213-01	B.D.	PBPC804	
F1, F2	2	26-00871-01	FUSE SOCKET		
	1	29-00052-05	FUSE (MFG 5A)	G-AL-20A/250V	
	1	33-02341-01	LEAD WIRE	9-200-9 #16 BL	
P401	1	37-02026-31	WAFER	3P	
P4-P6, PRO, P18	1	37-02365-01	HOUSING	5P 530mm #18	
P7-P9, PRO, P17	1	37-02366-01	HOUSING	5P 440mm #18	
P10-P12, PRO, P16	1	37-02367-01	HOUSING	5P 300mm #18	
P1-P3	1	37-02368-01	HOUSING	5P 300mm #18	

REAR AMP PCB ASS'Y

REF NO.	Q'TY	PART NO.	DESCRIPTION		
PCB	1	02-01463-01	AMP PCB	260×87×1.6tmm	
R131, R132, R231, R232	4	08-41005-03	RES	10	1/4W
R108, R208, R115, R215	4	08-41025-03	RES	1K	1/4W
R105, R205, R107, R207,	6	08-41035-03	RES	10K	1/4W
R114, R214					
R104, R106, R204, R206	4	08-41055-03	RES	1M	1/4W
R119, R219, R122, R222	4	08-41215-03	RES	120	1/4W
R130, R140	2	08-41225-03	RES	1.2K	1/4W
R102, R202	2	08-41245-03	RES	120K	1/4W
R101, R201	2	08-41535-03	RES	15K	1/4W
R103, R203	2	08-42025-03	RES	2K	1/4W
R130, R230	2	08-42205-03	RES	22	1/4W
R116, R136, R216, R236	4	08-42235-03	RES	22K	1/4W
R124, R224	2	08-42725-03	RES	2.7K	1/4W
R110, R111, R210, R211	4	08-43305-03	RES	33	1/4W
R113, R213, R127, R227	4	08-43315-03	RES	330	1/4W
R109, R117, R209, R217	4	08-43935-03	RES	39K	1/4W
R128, R129, R228, R229	4	08-44705-03	RES	47	1/4W
R121, R221	2	08-44715-03	RES	470	1/4W
R137, R237	2	08-44725-03	RES	4.7K	1/4W
R118, R218	2	08-44735-03	RES	47K	1/4W
R126, R226	2	08-45115-03	RES	510	1/4W
R123, R125, R223, R225	4	08-46805-03	RES	68	1/4W
R112, R212	2	08-48215-03	RES	820	1/4W
R120, R220	2	08-55625-02	RES	5.6K	1/2W 5%
R135, R235	2	09-25195-02	RES	5.1	2W
R133, R134, R233, R234	4	10-52285-01	RES	.22	5W
VR101, VR201	2	11-02102-01	SVR	220 OHMS/B	
C114, C214	2	13-00002-02	POLYESTER	104J/50V	
C104, C204	2	13-00002-24	POLYESTER	2.2/100V	
C109, C209	2	13-00002-25	POLYESTER	1UF/100V	
C115, C215	2	13-00015-03	E/C	4.7UF/25V	
C120, C121	2	13-00015-05	E/C	100UF/50V	
C108, C116, CC117, C216, C217	6	13-00015-10	E/C	47UF/100V	
C111, C211	2	13-00015-11	E/C	4.7UF/63V	
C110, C210	2	13-20078-11	C/C	7P	
C118, C119	2	13-34733-12	C/C	.047	
C112, C113, C213, C213	4	13-40688-11	C/C	68P	
C105, C205	2	13-43308-11	C/C	330P	
C106, C206	6	13-50228-11	C/C	22P	
TH101, TH201	2	18-02210-01	THERMOS SWITCH UP-62/85C	UP-62/85C	
Q105, Q205	2	23-00353-01	TRANSISTOR	2SA970-GR	
Q101-Q103, Q201-Q203	6	23-00356-01	TRANSISTOR	2SC2240-GR	
Q114, Q214	2	23-01240-01	TRANSISTOR	2SB817E	
Q111, Q211	2	23-01241-01	TRANSISTOR	2SD1047E	
Q115, Q215	2	23-01545-01	TRANSISTOR	2SC1815GR	
Q106, Q109, Q206, Q209	1	23-02214-01	TR	2SC3478	
Q107, Q207	2	23-02215-01	TR	2SD600	
Q110, Q210	2	23-02216-01	TR	2SC3902	
Q113, Q213	2	23-02217-01	TR	2SA1507	
Q104, Q108, Q204, Q208, Q112, Q211	6	23-02218-01	TR	2SA1376	

REAR AMP PCB ASS'Y

REF NO.	Q'TY	PARTS NO.	DESCRIPTION	
D101-D109, D201-D209	22	24-00026-05	DIODE	IN4148
D110, D111, D210, D211	4	24-02212-01	DIODE	IN4004
ZD401, ZDd402	2	21-02217-01	ZENER DIODE	IN4744A
TL101, TL201	2	25-02125-01	VACTROL	VTL5C4
	3	26-02206-01	AMP TYPE	CAA-100
	1	32-02124-01	INSULATOR	AV-405
	1	33-02342-01	LEAD WIRE	9-180-9#22GND
P101, P201	2	37-02154-21	WAFER	2P
P100	1	37-02368-31	WAFER	3P
	1	56-00434-00	HEAT SINK	AV-405 50W x 2
	3	58-00180-00	SUPPORT	AV-405
	.03	SM-PP330-W5	MACHINE SCREW	M3.0P0.5 x W5
U401	1	22-01837-01	IC	JRC 353D
C102, C103, C202, C203	4	13-00005-06	E/C	10UF/16V

MISCELLANEOUS

REF NO.	Q'TY	PARTS NO.	DESCRIPTION	
PCB	1	02-01469-01	PCB AV-405	58 x 30 x 1.6mm
R1-R5	5	08-61025-02	RES	1K 1/16W
C401	1	13-01090-07	ACROSS LINE CAP	0.01UF250V UL △
C1-C5	5	13-50508-11	C/C	50P
SW1	1	18-02205-01	POWER SW	A3107L1-ES △
SW2	1	18-02224-01	SW 10A/125V	3331.KIPIB2T4DD △
LED1	1	25-02114-01	LED	SRG301
JACK1	1	26-02276-02	RCA JACK	HTJ.032.08BWG
JACK2	1	26-02280-04	RCA JACK	4P (WHITE/GOLD)

PARTS LIST
FRONT/CENTER AMP PCB ASS'Y

REF NO.	Q'TY	PARTS NO.	DESCRIPTION		
PCB	1	02-01464-01	AMP PCB	196 × 87 × 1.61mm	
R324-R326, R328	4	08-41005-03	RES	10	1/4W
R301	1	08-41025-03	RES	1K	1/4W
R307	1	08-41035-03	RES	10K	1/4W
R312, R315	2	08-41215-03	RES	120	1/4W
R308	1	08-41325-03	RES	1.3K	1/4W
R333, R334	2	08-41515-03	RES	150	1/4W
R323	1	08-42205-03	RES	22	1/4W
R309, R336	2	08-42235-03	RES	22K	1/4W
R317	1	08-42725-03	RES	2.7K	1/4W
R303, R304	2	08-43305-03	RES	33	1/4W
R306, R320	2	08-43315-03	RES	330	1/4W
R302, R310	2	08-43935-03	RES	39K	1/4W
R321, R322	2	08-44705-03	RES	47	1/4W
R314	1	08-44715-03	RES	470	1/4W
R335	1	08-44725-03	RES	4.7K	1/4W
R311	1	08-44735-03	RES	47K	1/4W
R319	1	08-45115-03	RES	510	1/4W
R316, R318	2	08-46805-03	RES	68	1/4W
R305	1	08-48215-03	RES	820	1/4W
R313	1	08-55625-02	RES	5.6K 1/2W 5%	
R332	1	09-25195-02	RES	5.1 2W	
R327, R329-R331	4	10-52285-01	RES	.22 5W	
VR1	1	11-02102-01	SVR	220 OHMS/B	
C311	1	13-00002-02	POLYESTER	104J/50V	
C301	1	13-00002-24	POLYESTER	2.2/100V	
C306	1	13-00002-25	POLYESTER	1UF/100V	
C316, C317	2	13-00006-46	M/C	.1/100V	
C318	1	13-00015-03	E/C	4.7UF/25V (NP)	
C305, C312-C315	5	13-00015-10	E/C	47UF 100V	
C308	1	13-00015-11	E/C	4.7UF 63V	
C307	1	13-20078-11	C/C	7P	
C309, C310	2	13-40688-11	C/C	68P	
C302	1	13-43308-11	C/C	330P	
C303, C304	2	13-50228-11	C/C	22P	
TS	1	18-02212-02	THERMOS SWITCH	UP.62/85C 50mm	
Q305	1	23-00353-01	TRANSISTOR	2SA970-GR	
Q301-Q303	3	23-00356-01	TRANSISTOR	2SC2240-GR	
Q315, Q316	2	23-01240-01	TRANSISTOR	2SB817E	
Q311, Q312	2	23-01241-01	TRANSISTOR	2SD1047E	
Q317	1	23-01545-01	TRANSISTOR	2SC1815GR	
Q306, Q309	2	23-02214-01	TR	2SC3478	
Q307	1	23-02215-01	TR	2SD600	
Q310	1	23-02216-01	TR	2SC3902	
Q304, Q314	2	23-02217-01	TR	2SA1507	
Q308, Q313	2	23-02218-01	TR	2SA1376	
D301-D304, D307, D308	6	24-00026-05	DIODE	IN-4148	
D305, D306	2	24-02212-01	DIODE	IN4004	
S1-S4	4	26-00871-01	FUSE SOCKET		
FUSE1-FUSE2	2	29-02231-05	FUSE (SLOT)	5TT/20mm/125V	
P301	1	37-02154-21	WAFER	2P	
P3002	1	37-02365-05	WAFER	5P	
	1	55-00828-01	FUSE COVER		
	1	32-02123-01	INSULATOR	AV-405	

VOLTAGE CONVERSION

AV-405 Voltage Conversion Instructions

Bill of Materials

Q'ty	Part No.	Description
1	29-02231-08	Fuse 8A Slo-Blo
1	29-02231-04	Fuse 4A Slo-Blo
1	530-10094-00	Label 230V 50 Hz

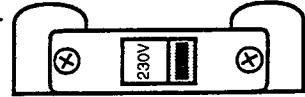
Directions for Change (115V to 230V)

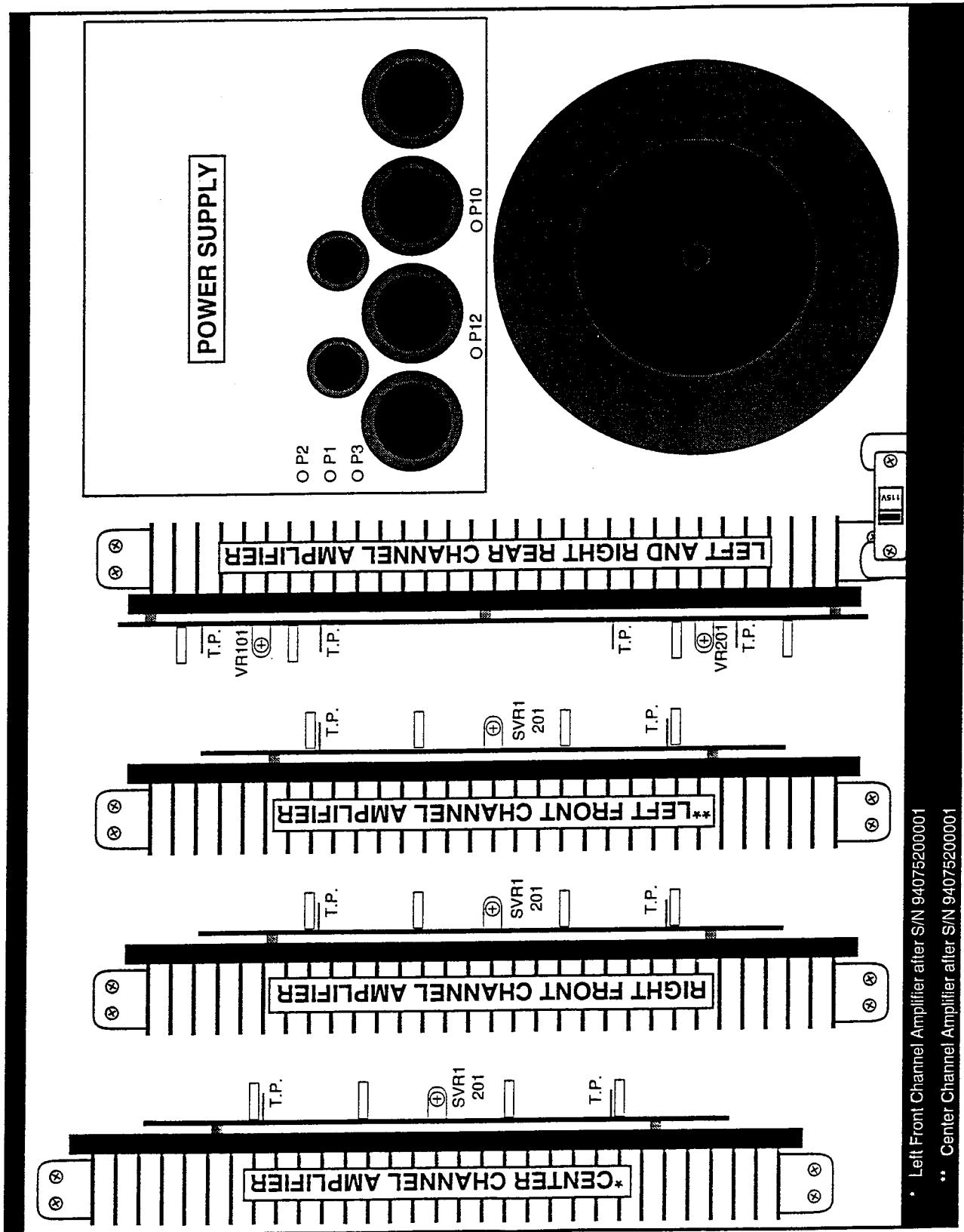
1. DISCONNECT THE AV-405 FROM THE AC POWER OUTLET.
2. Remove the top cover as described in the Disassembly Section.
3. Move the AC Selector Switch near the front panel to the 230V position.
4. Replace the 8A Slo-Blo fuse with a 4A Slo-Blo fuse.
5. Place 230V AC 50 Hz label (530-10094-00) over "120VAC - 60Hz" screening near linecord.



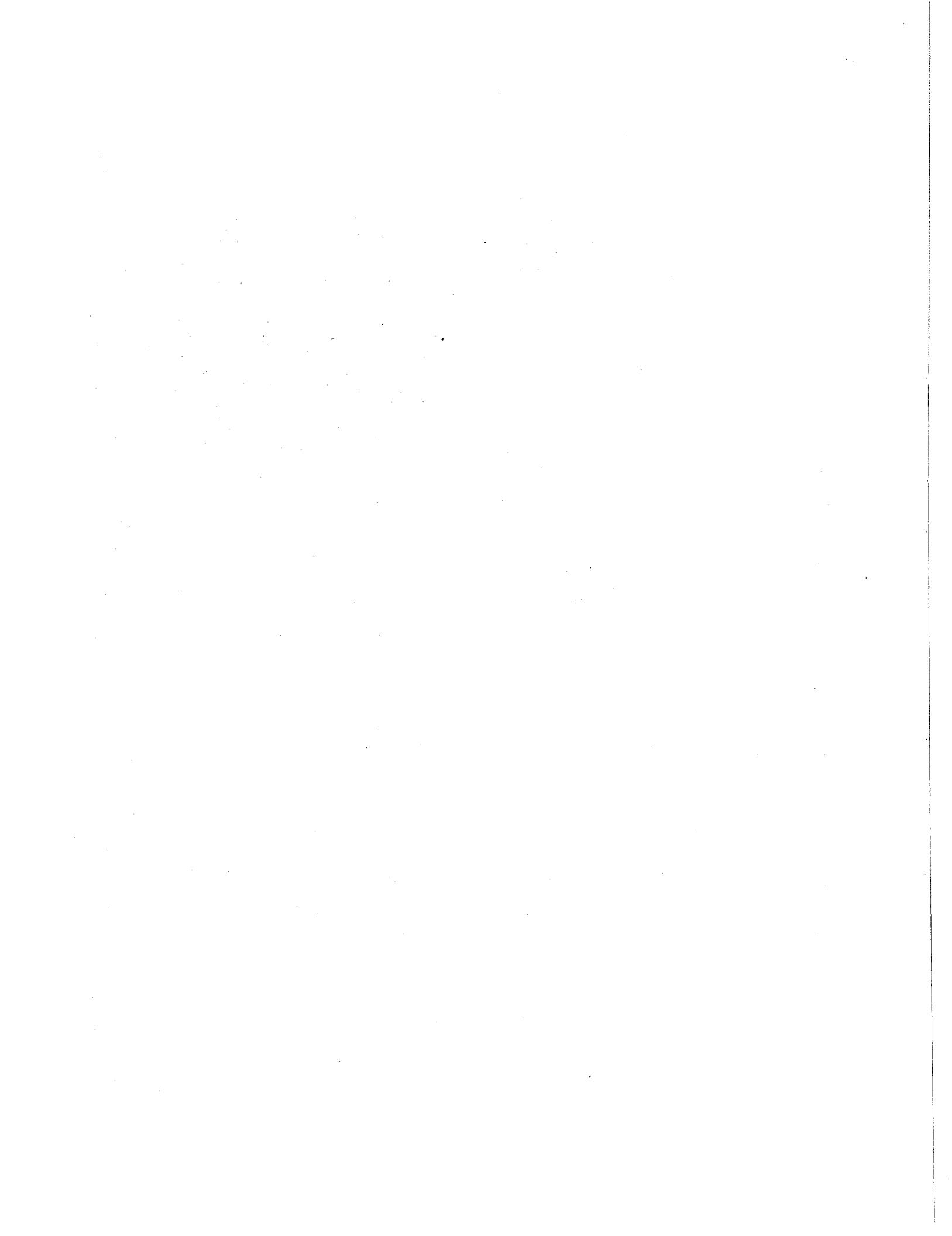
Directions for Change (230V to 115V)

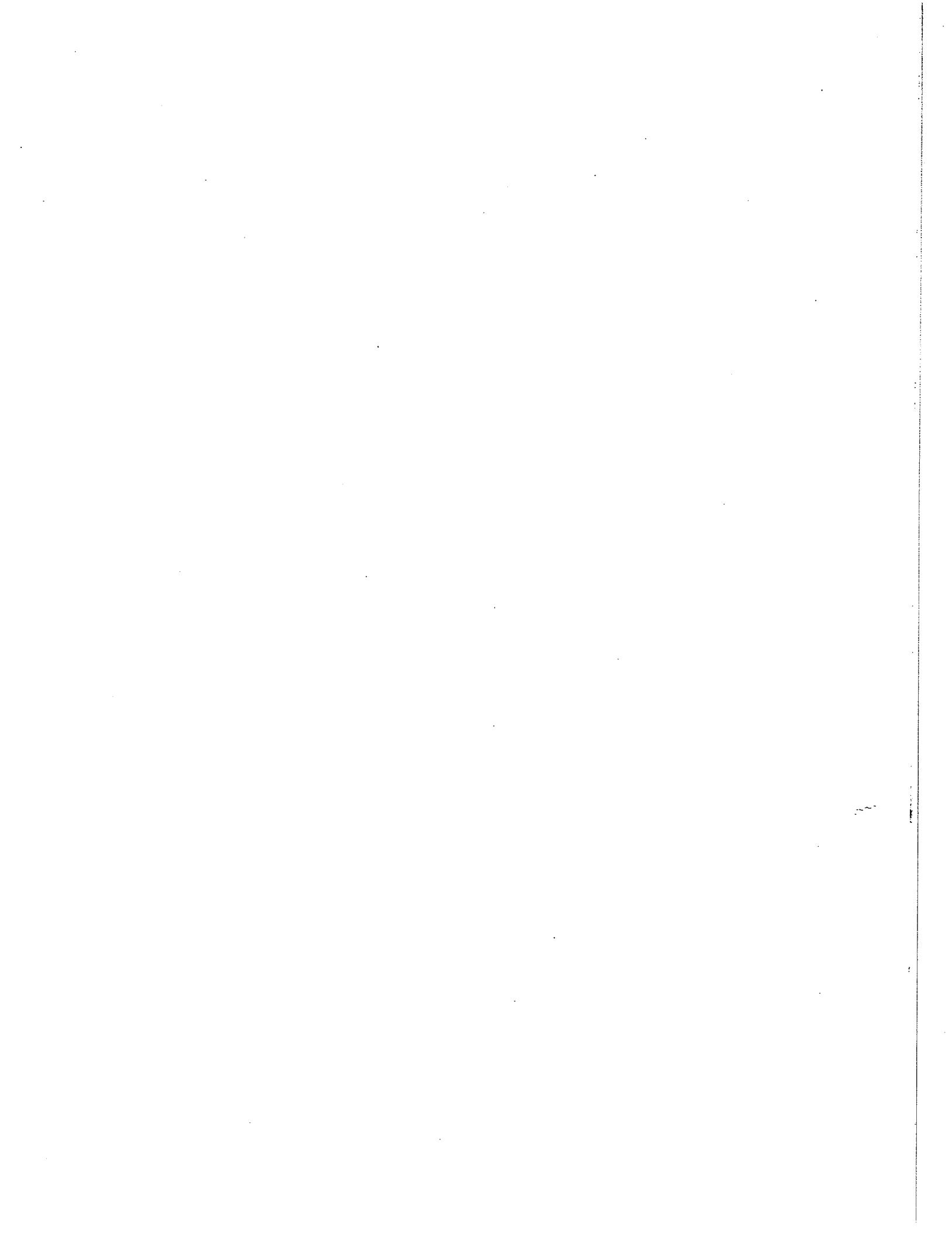
1. DISCONNECT THE AV-405 FROM THE AC POWER OUTLET.
2. Remove the top cover as described in the *Disassembly* Section.
3. Move the AC Selector Switch near the front panel to the 115V position.
4. Replace the 4A Slo-Blo fuse with an 8A Slo-Blo fuse.
5. Remove 230V AC 50 Hz label (530-10094-00) located near linecord.





- Left Front Channel Amplifier after S/N 94075200001
- Center Channel Amplifier after S/N 94075200001









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P/N 990-20200-01
Rev. A