

■ Adjustment

This adjustment procedure applies to the power amplifier section of the RXA-212 and RXA-216.

As RXA-212 has two blocks and RXA-216 has four block blocks, adjust these blocks in the same way.

1. Measurement Circuit

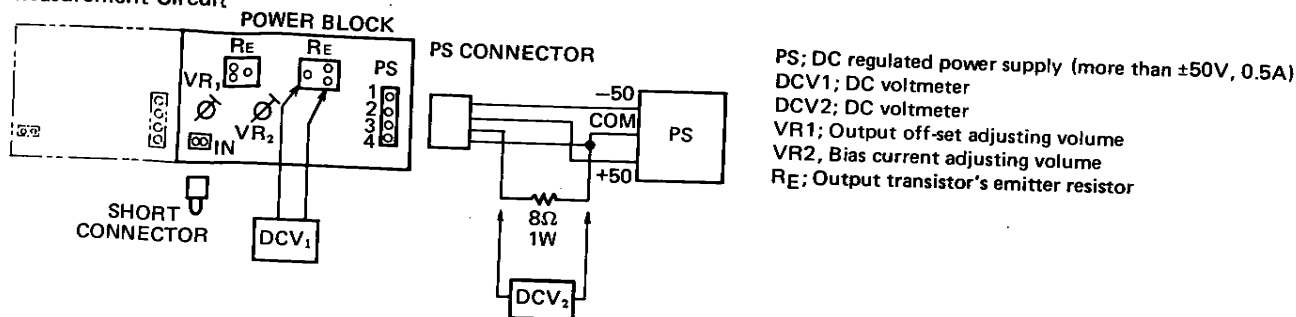


Fig. 1

2. Preliminary Arrangements before Adjustments

Connect each of instruments and connectors according to the measurement circuit (Fig. 1, above), and set variable resistors VR1 and VR2 to center in their variable range. At this time, confirm the PS current is not excessively "high".

3. Adjustment of Output off-set Voltage

Under the condition of input connector short-circuited, adjust VR1 to obtain 0 (zero)-volt output across an 8-ohm resistor.

As the output voltage across the 8-ohm resistor (measured with DCV2) is always fluctuating, adjust it to as nearly 0 (zero)-volt as possible within $\pm 3mV$ tolerance.

4. Adjustment of Bias Current

After the adjustment of output off-set voltage, measure the bias current (measured with DCV1) across the output transistor's emitter resistor.

Adjust the VR2 to be 5mV (measured with DCV1), and the flow-in bias current through the output transistor must be approximately 10mA.

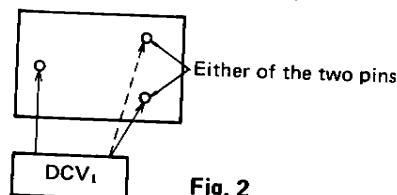
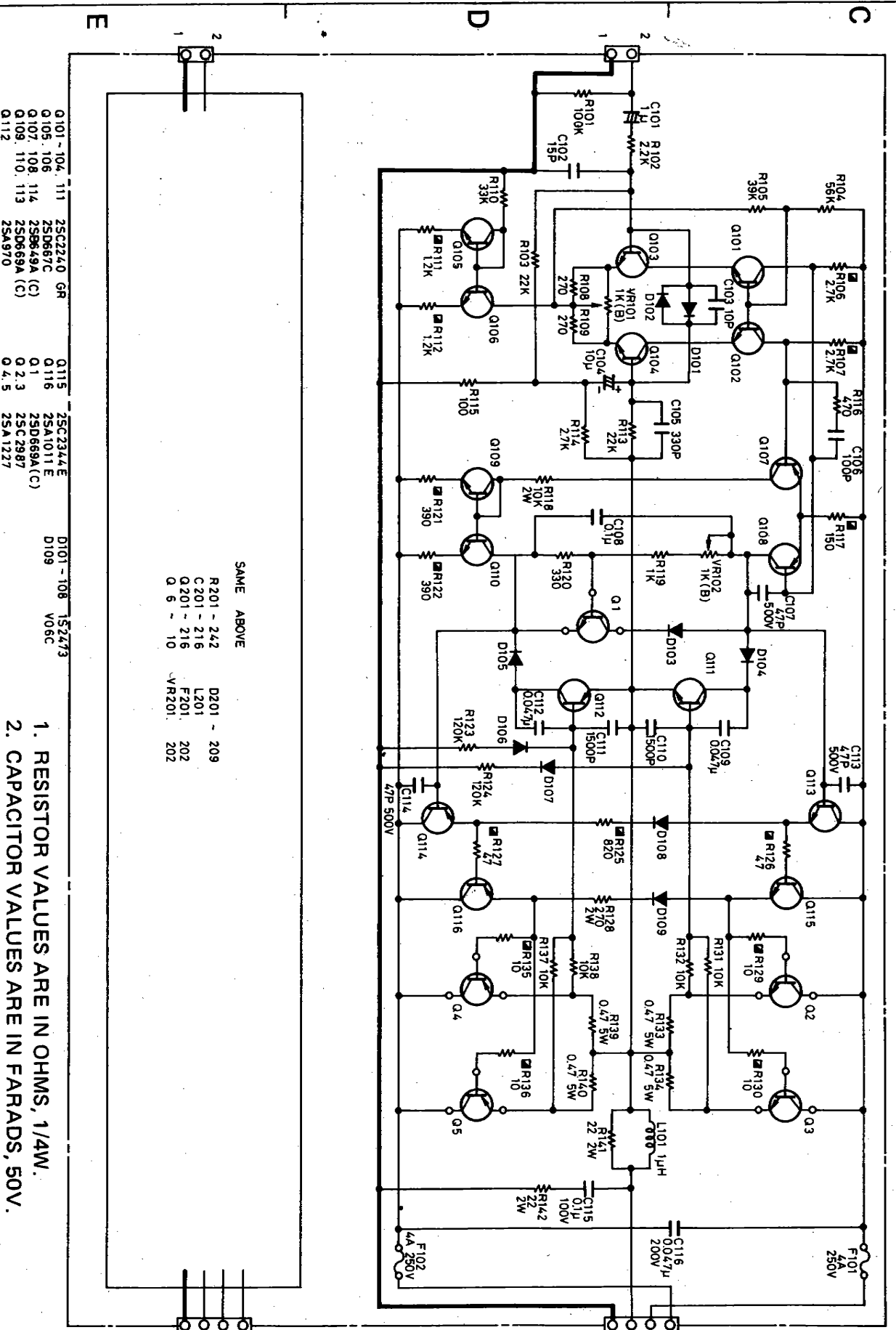


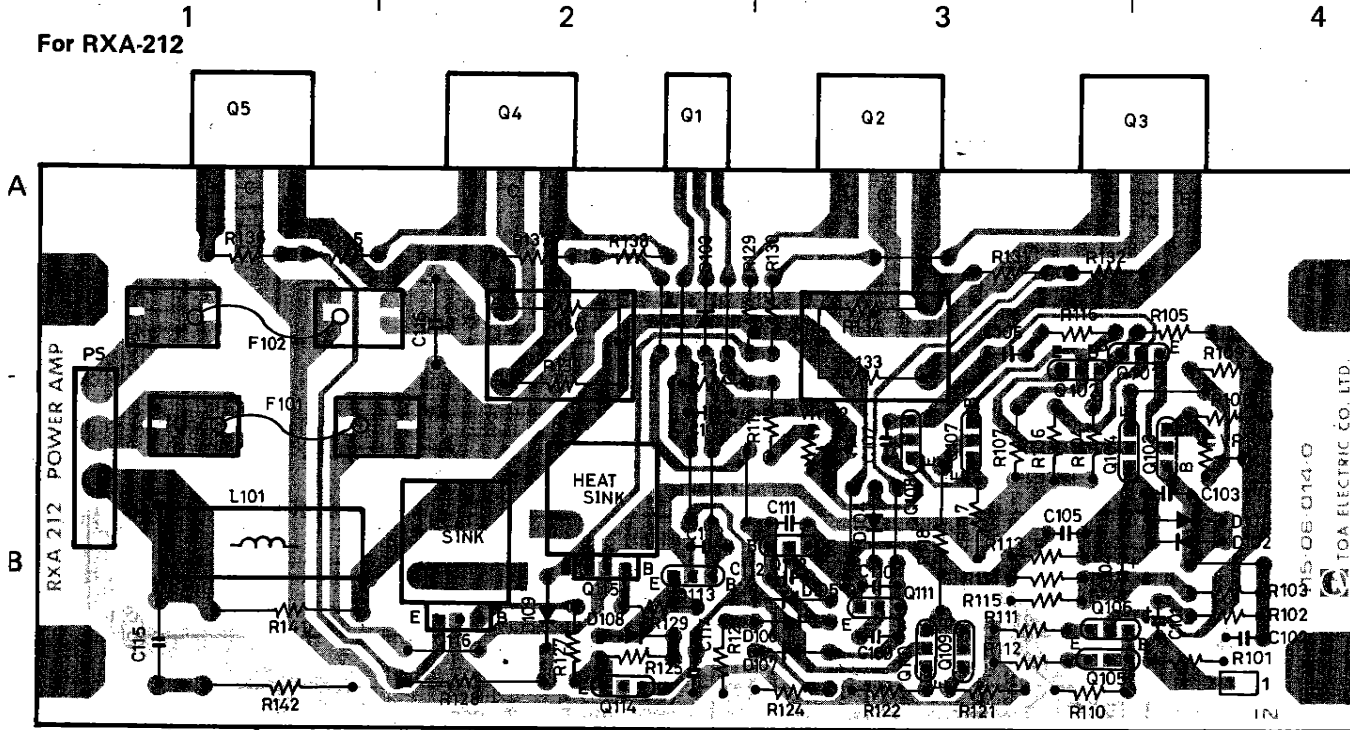
Fig. 2

Power Section Schematic Diagram

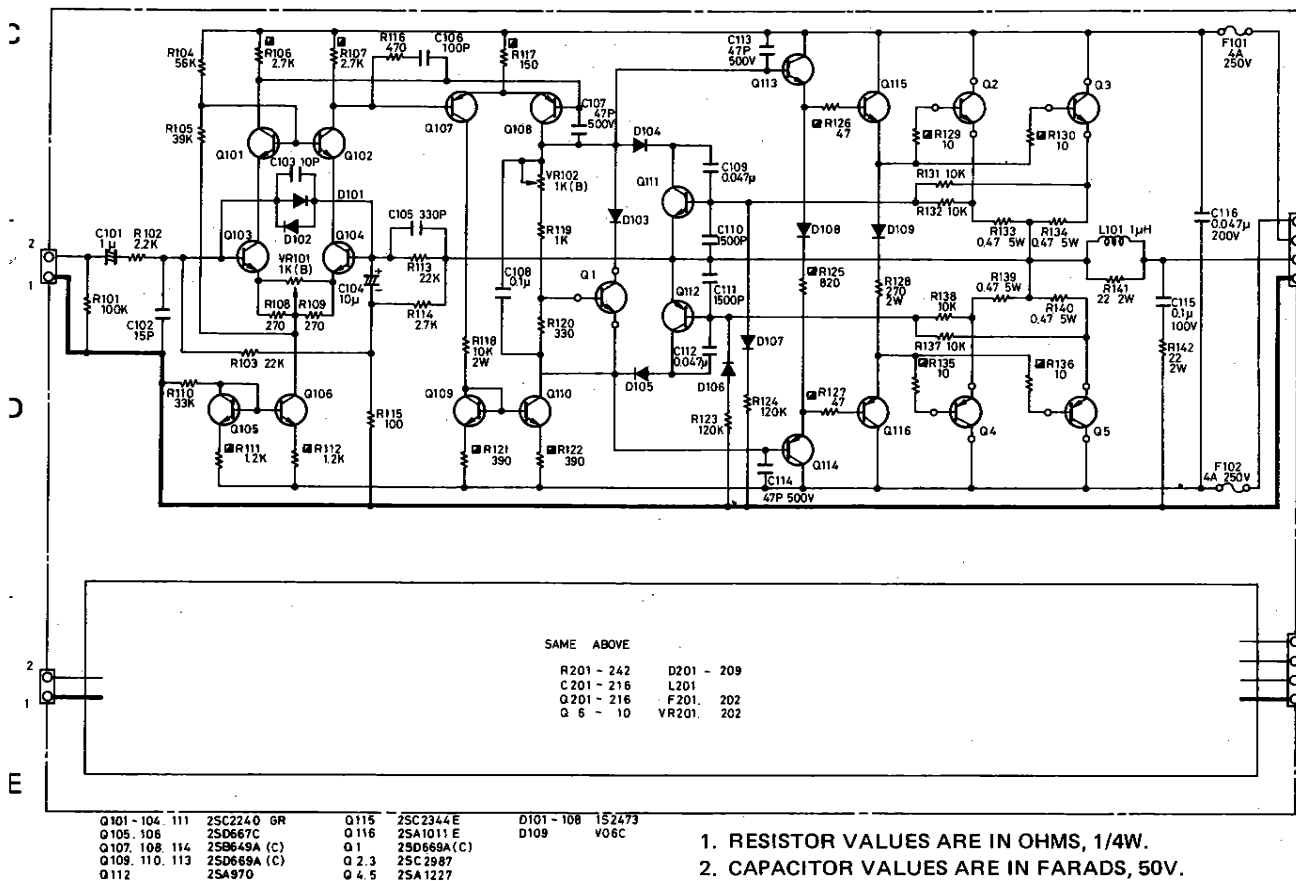


SAME ABOVE
 R201 - 242 D201 - 209
 C201 - 216 L201
 Q201 - 216 F201, 202
 -VR201, 202

1. RESISTOR VALUES ARE IN OHMS, 1/4W.
 2. CAPACITOR VALUES ARE IN FARADS, 50V.
- Resistors marked (■) are non-flammable resistors.
 CIRCUITRY ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Power Section Schematic Diagram



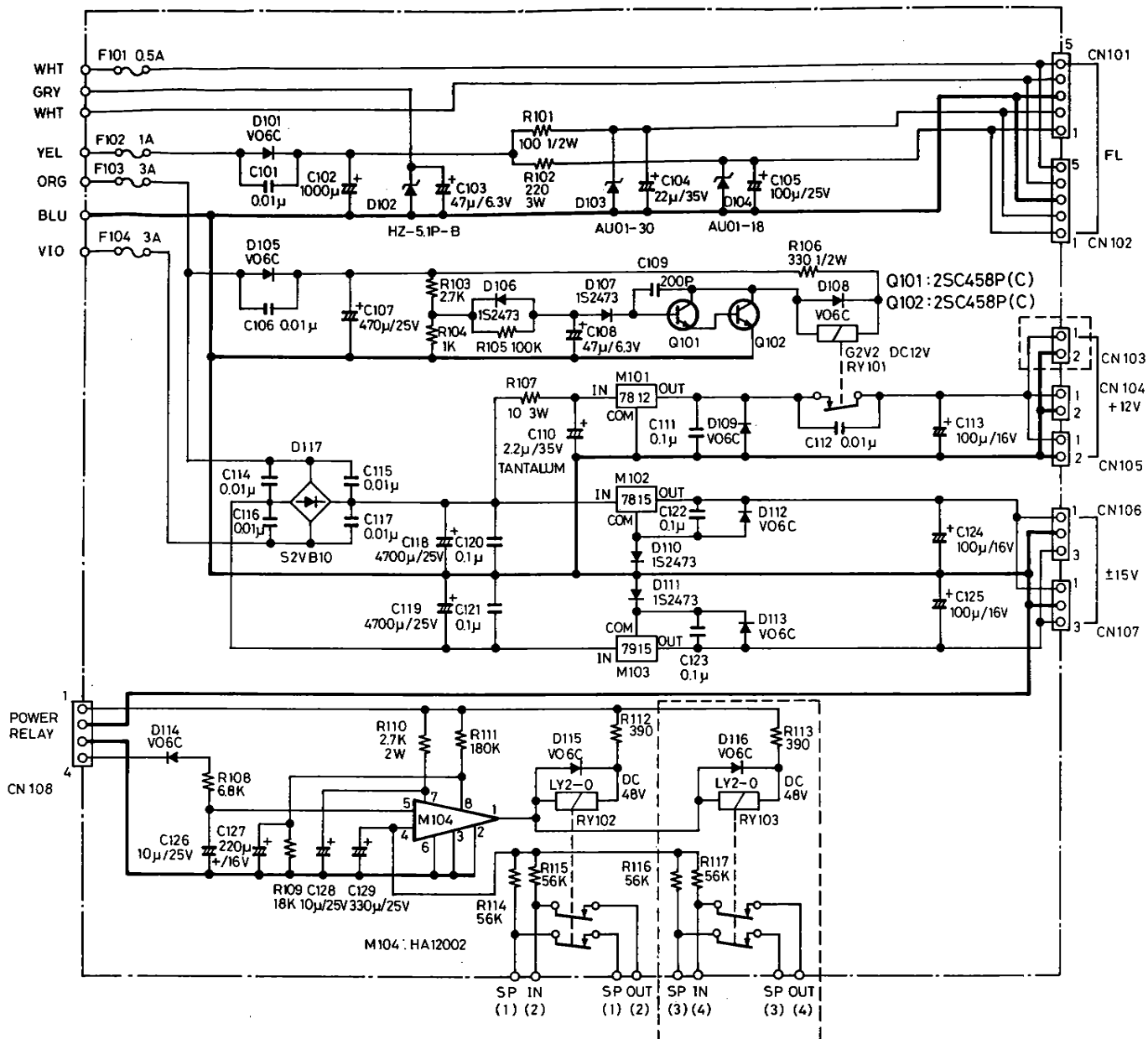
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■ Power Supply Section Schematic Diagram



1. RESISTOR VALUES ARE IN OHMS, 1/4W.
2. CAPACITOR VALUES ARE IN FARADS, 50V.
3. VOLTAGES ARE MEASURED TO CHASSIS GROUND WITH NO SIGNAL.

UNLESS OTHERWISE SPECIFIED.

CIRCUITRY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

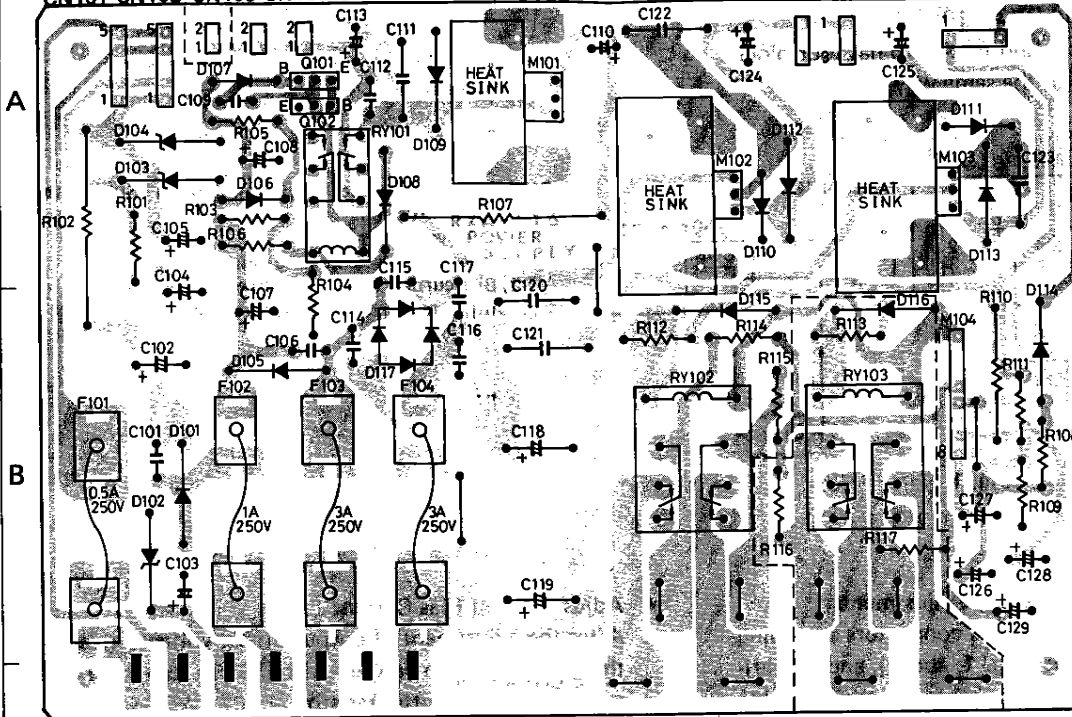
Note: The mounting diagram and schematic diagram on these pages (P51 and P52) apply to the power supply section of the RXA-216.
For the RXA-212, enclosed parts in red-dotted lines are omitted.

■ Power Supply (PS) PCB Assembly

E 7113

CN101 CN102 CN103 CN104 CN105

CN106 CN107 CN108



■ = +B
 ■ = -B
 ■ = GND
 ■ = signal

■ Pov

WHT
 GRY
 WHT
 YEL
 ORC
 BLU
 VIC

For RXA-212
 Remove or Don't
 Connect outlined
 (Red) items.

■ Parts List

Ref. No.	Part Code	Description
ICs		
M101	111-06-144-40	μA7812UC
M102	111-06-235-50	μA7815UC
M103	111-06-236-60	μA7915UC
M104	111-06-126-80	HA12002
Transistors		
Q101, 102	111-02-040-70	2SC458P (C)
Diodes		
D101, 105	111-03-052-70	V06C
D102	111-03-396-60	Zener, HZ5.1P-B
D103	111-03-567-00	Zener, AU01-30
D104	111-03-570-60	Zener, AU01-18
D106, 107	111-03-132-60	1S2473
D108, 109	111-03-052-70	V06C
D110, 111	111-03-132-60	1S2473
D112-115	111-03-052-70	V06C
D116	111-03-052-70	V06C (for RXA-216)
D117	111-03-288-20	Rectifier, S2VB10
Relays		
RY101	115-16-060-20	G2V-2 (DC12V)
RY102	115-16-073-60	LY2-0 (DC48V)
RY103	115-16-073-60	LY2-0 (for RXA-216)
Resistors		
All resistors are in ohms.		
R101	112-47-041-80	100, 5%, 1/2 watt
R102	112-45-381-30	220, 10%, 3 watts
R106	112-47-053-70	330, 5%, 1/2 watt
R107	112-45-349-70	10, 10%, 3 watts
R110	112-62-100-10	2.7 k, 5%, 2 watts
R112	112-64-071-80	390, 5%, 1/4 watt, non-flammable
R113	112-64-071-80	390 (for RXA-216)

As for the part codes of the resistors listed below, refer to the list of "CARBON RESISTORS" on page 53.

R104	1 k	R114, 115	56 k
R103	2.7 k	R116, 117	56 k
R108	6.8 k		(for RXA-216)
R119	18 k	R105	100 k
		R111	180 k

Ref. No.	Part Code	Description
Capacitors		
C101, 106	113-35-223-00	0.01 μF, 50V, ceramic
C102	113-02-374-90	1000 μF, 50V, elec.
C103, 108	113-02-302-40	47 μF, 6.3V, elec.
C104	113-02-352-90	22 μF, 35V, elec.
C105	113-02-578-90	100 μF, 25V, elec.
C107	113-02-346-00	470 μF, 25V, elec.
C109	113-35-099-70	200 pF, 50V, ceramic
C110	113-13-263-20	2.2 μF, 35V, tantalum
C111	113-30-025-10	0.1 μF, 50V, polyester
C112	113-35-223-00	0.01 μF, 50V, ceramic
C113	113-02-327-70	100 μF, 16V, elec.
C114-117	113-35-223-00	0.01 μF, 50V, ceramic
C118, 119	113-02-521-10	4700 μF, 25V, elec.
C120-123	113-30-025-10	0.1 μF, 50V, polyester
C124, 125	113-02-327-70	100 μF, 16V, elec.
C126, 128	113-02-339-60	10 μF, 25V, elec.
C127	113-02-328-20	220 μF, 16V, elec.
C129	113-02-345-90	330 μF, 25V, elec.
Connectors (PCB mount)		
CN101, 102	123-06-301-60	5P; 171825-5
CN103	123-06-319-90	2P; 171825-2 (for RXA-216)
CN104, 105	123-06-319-90	2P; 171825-2
CN106, 107	123-06-300-50	3P; 171825-3
CN108	123-06-186-70	4P; 171825-4
Fuses		
F101	115-40-211-30	Tube, 0.5A, 250V (UL)
F102	115-40-213-10	Tube, 1A, 250V (UL)
F103, 104	115-40-217-10	Tube, 3A, 250V (UL)
	123-07-027-20	Holder, fuse; SN-5051
	101-08-178-80	Heat sink (M101)
	101-08-179-50	Heat sink (M102, 103)
	124-05-050-10	PCB tabulation
	124-02-297-30	Terminal, IPS-5007
	122-01-180-30	Ceramic tube, 5mm
	122-01-138-20	Ceramic tube, 9mm
	115-06-013-30	PC board, power supply

POWER RELAY

CN108

- RXA-212



Ref. No.	Part Code	Description
1	101-06-602-2B	Chassis, power amp.
2	101-08-191-10	Heat sink
3	102-21-196-20	Plate, transformer
4	102-22-177-20	Plate, power PCB, right
5	102-22-178-70	Plate, power PCB, left
6	102-22-179-4A	Heat sink, power supply PCB
7	102-22-206-70	Bracket, heat sink
8	106-51-107-7A	Square nut, M3
9	111-03-143-00	Rectifier, KBPC 25-02 (D1)
	113-35-099-30	Capacitor, 0.01 μ F, 500V, ceramic (C1-4)
	103-14-082-50	Capacitor boots
10	114-01-336-30	Power trans., PT-340 (PT-1)
11	113-03-034-30	Capacitor, 10000 μ F, 63V, elec. (C201,2)
12	102-02-059-9B	Spacer, PCB; KGLS-6S
13	121-03-192-30	Foot, plastic
14	124-03-017-20	Locking terminal lug, M3
15	125-52-049-20	Clamp, cable; 1686-01

Ref. No.	Part Code	Description
16	PCB assy., power (refer to pages 46-49)	
17	PCB assy., power supply (refer to pages 50, 51)	
18	PCB assy., condenser (refer to pages 44, 45)	
19	123-16-028-70	Connector, PS-LED, 2P-2P
20	123-16-029-40	Connector, PS-FL, 5P-10P
21	123-16-030-00	Connector, PS-GEQ, 3P-3P
22	123-16-031-10	Connector, PS-FB2, 3P: 2P-5P
23	123-16-032-40	Connector, power relay, 4P
24	123-16-043-80	Connector, power, 4P, No. 1
	123-16-044-50	Connector, power, 4P, No. 2
25	123-16-049-00	SP out cord, No. 1 (L=590mm)
	123-16-050-00	SP out cord, No. 2 (L=510mm)
26	123-16-033-90	Connector, power-power SW, 2P (L=670)
	123-16-034-60	Connector, power-power SW, 2P (L=470)