



SERVICE
MANUAL

3250



marantz

model 3250

Stereo Control Console

TABLE OF CONTENTS

SECTION	PAGE
1. INTRODUCTION	1
2. P.W. BOARD	1
3. TEST EQUIPMENT REQUIRED FOR SERVICING	1
4. ALIGNMENT PROCEDURE	1
5. VOLTAGE CONVERSION FOR EUROPE	2
5.1 Voltage Conversion Chart for Europe	2
6. MAJOR COMPONENT LOCATIONS	3
6.1 Front Panel Adjustment and Component Locations	3
6.2 Main Chassis Component Locations (Top View)	3
6.3 Rear Panel Adjustment and Component Locations	4
6.4 Rear Panel Adjustment and Component Locations for Europe	5
6.5 Main Chassis Component Locations (Top View) for Europe	5
7. DIAGRAM AND COMPONENT LOCATIONS	6
7.1 Rear Panel Assembly (PV01) Schematic Diagram and Component Locations	6
7.2 Speaker Switch Assembly (PW01) Schematic Diagram and Component Locations	6
7.3 Pre-Amp. Assembly (PJ01) Schematic Diagram and Component Locations	7
7.4 Front Panel Assembly (PS01) Schematic Diagram and Component Locations	9
8. BLOCK DIAGRAM	10
9. CONNECTION DIAGRAM	11
10. SCHEMATIC DIAGRAM	13
11. EXPLODED MECHANICAL DIAGRAM	15
12. PARTS LIST	17
13. TECHNICAL SPECIFICATIONS	23
14. PACKING MATERIAL EXPLODED VIEW	24

1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 3250 Stereo Control Console.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

2. P.W. BOARD

As can be seen from the circuit diagram, the chassis of Model 3250 consists of following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Pre-Amp. Ass'y. (Phono Amp., Tone Amp., Power Supply) mounted on P.W.B. PJ01
2. Front Panel Ass'y mounted on P.W.B. PS01
3. Rear Panel Ass'y mounted on P.W.B. PV01
4. Speaker Switch Ass'y mounted on P.W.B. PW01
5. Fuse Ass'y mounted on P.W.B. PP01

3. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 3250 Stereo Control Console.

Item	Manufacturer and Model No.	Use
Distortion Analyzer Audio Oscillator AC VTVM	SoundTechnology Model 1700B	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B - 10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600 ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup

4. ALIGNMENT PROCEDURES

1. Set the VOLUME control at maximum, and also BASS, MID, TREBLE and BALANCE Controls at mechanical center position.
2. Connect 47 kΩ dummy load resistor to each R and L channel on PRE OUT Jacks of the unit.

ITEM	SIGNAL APPLICATION	INDICATOR CONNECTION
CHECK OF THE TECHNICAL SPEC.	PHONO, AUX, TAPE	TAPE OUT, PRE OUT

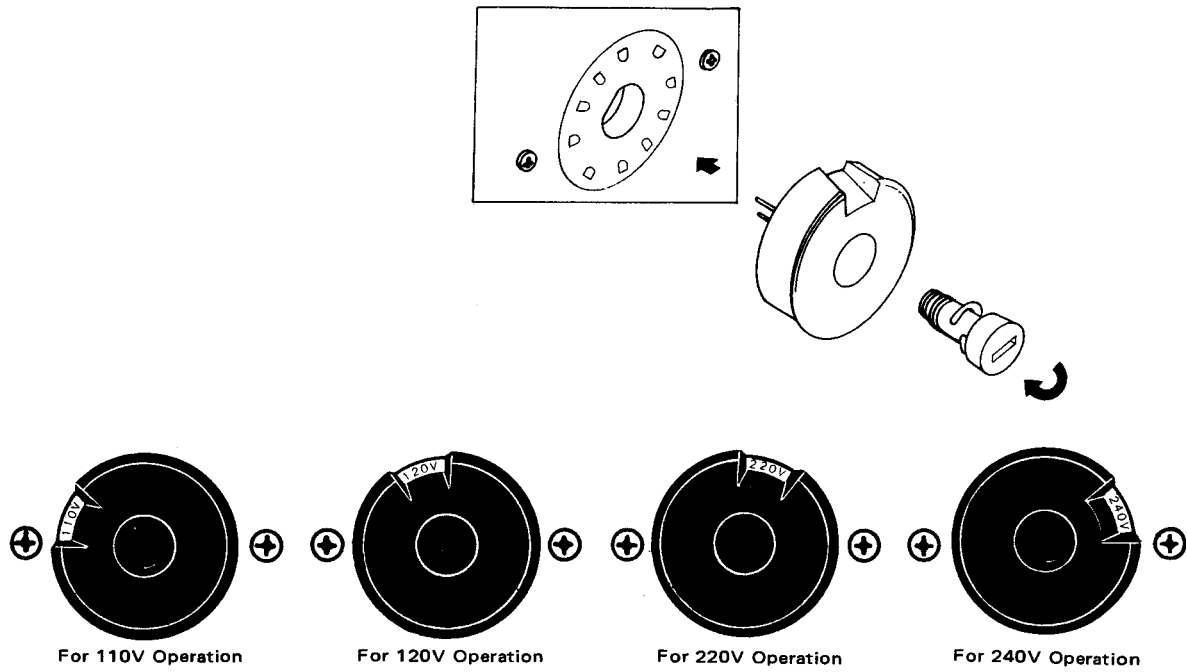
● **EUROPEAN MODEL ONLY**

5. VOLTAGE CONVERSION

This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.
To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

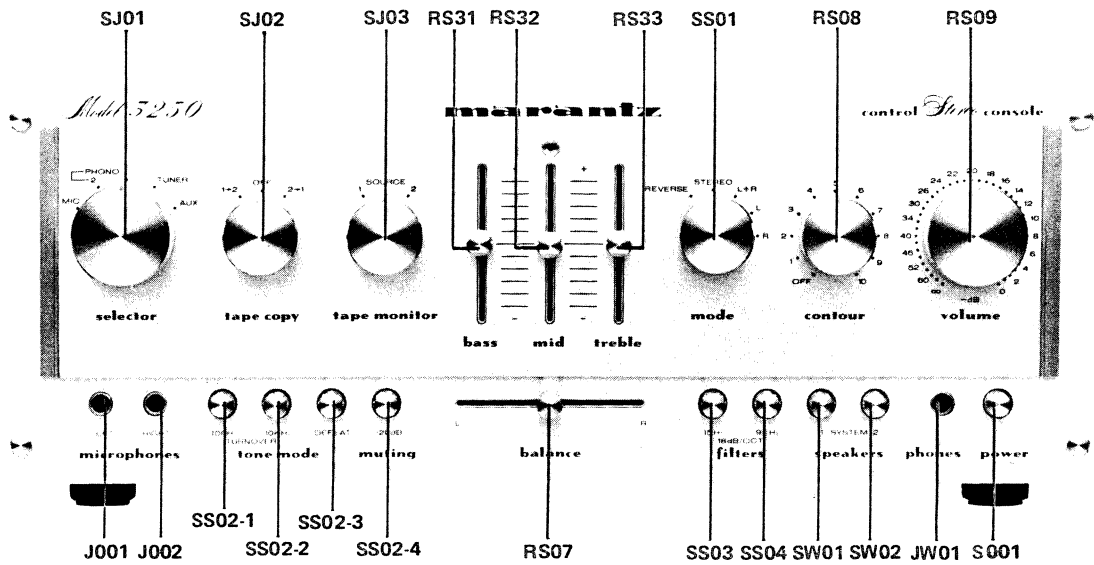
CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

5.1 Voltage Conversion Chart

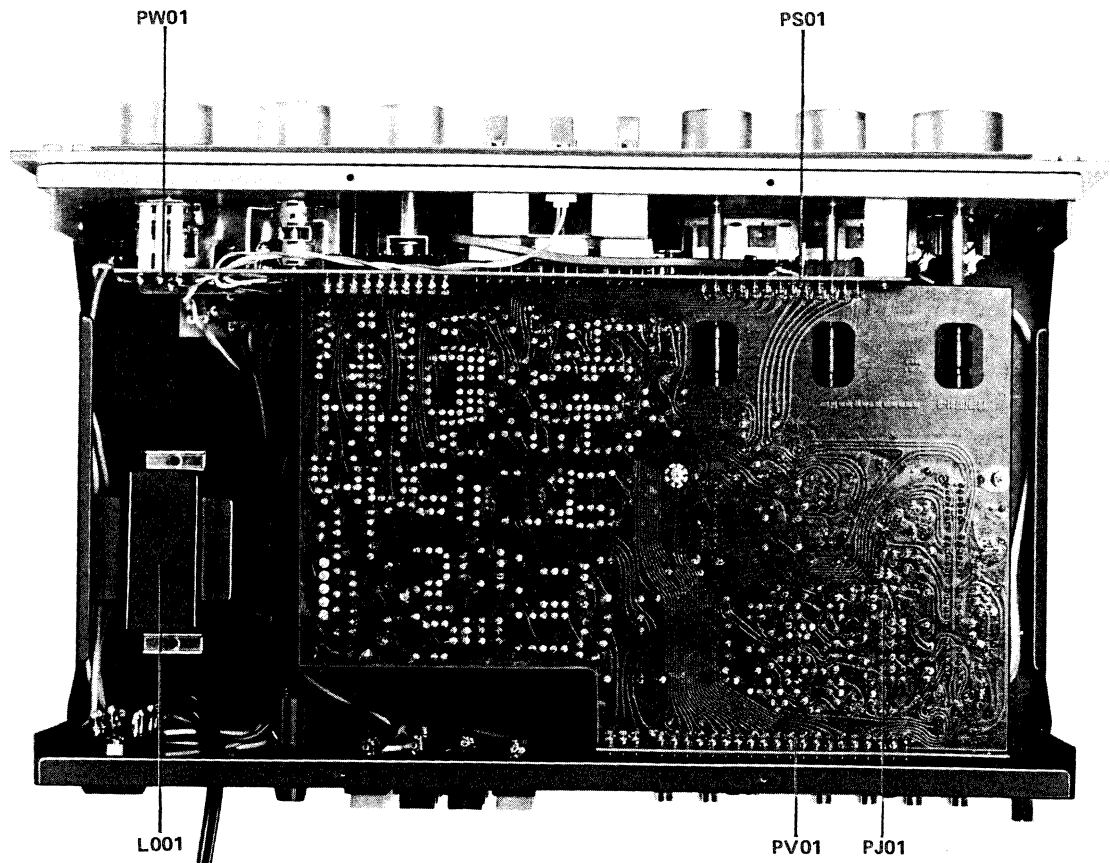


6. MAJOR COMPONENT LOCATIONS

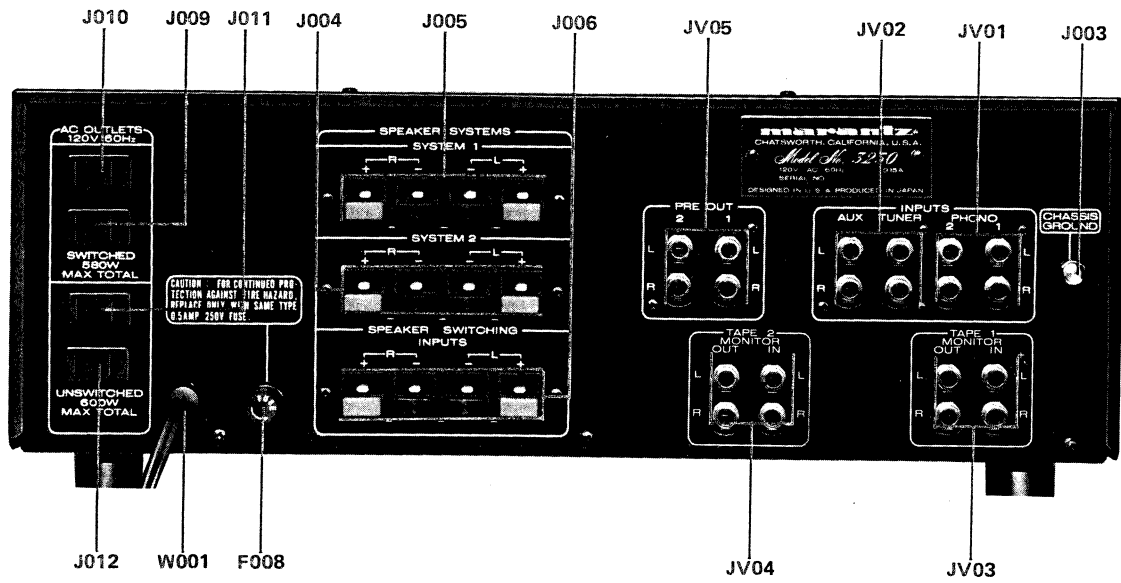
6.1 Front Panel Adjustment and Component Locations



6.2 Main Chassis Component Locations (Top View)

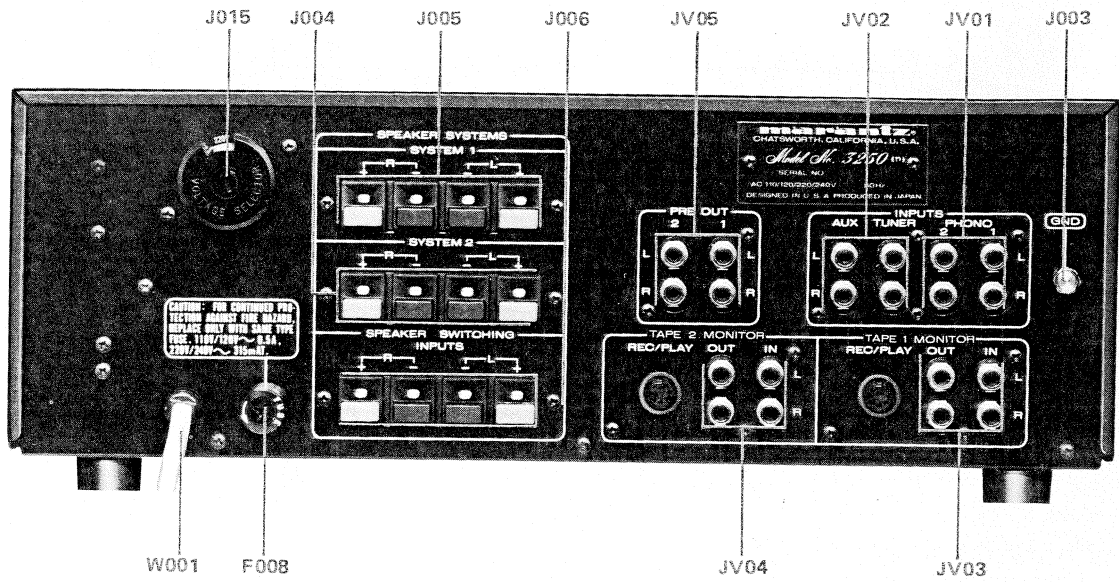


6.3 Rear Panel Adjustment and Component Locations

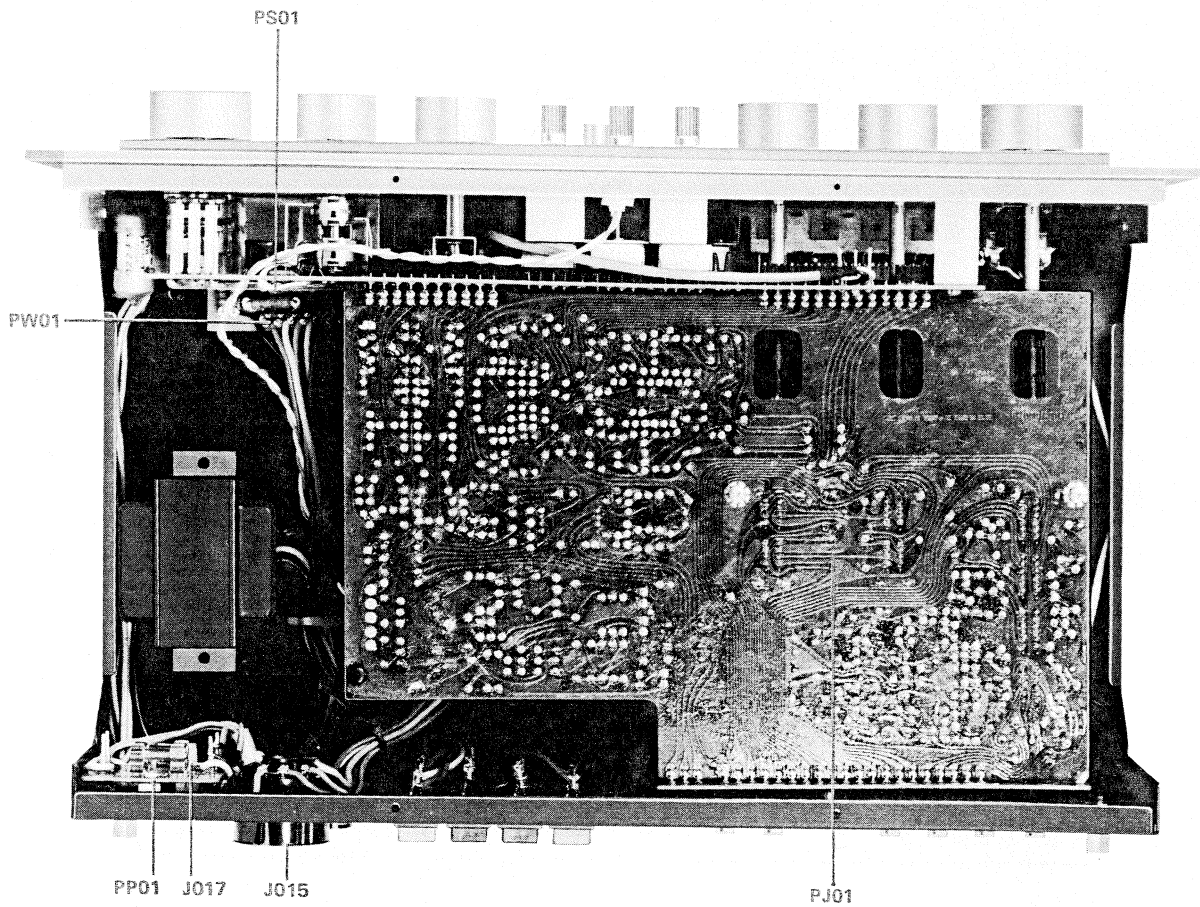


● EUROPEAN MODEL

6.4 Rear Panel Adjustment and Component Locations for Europe

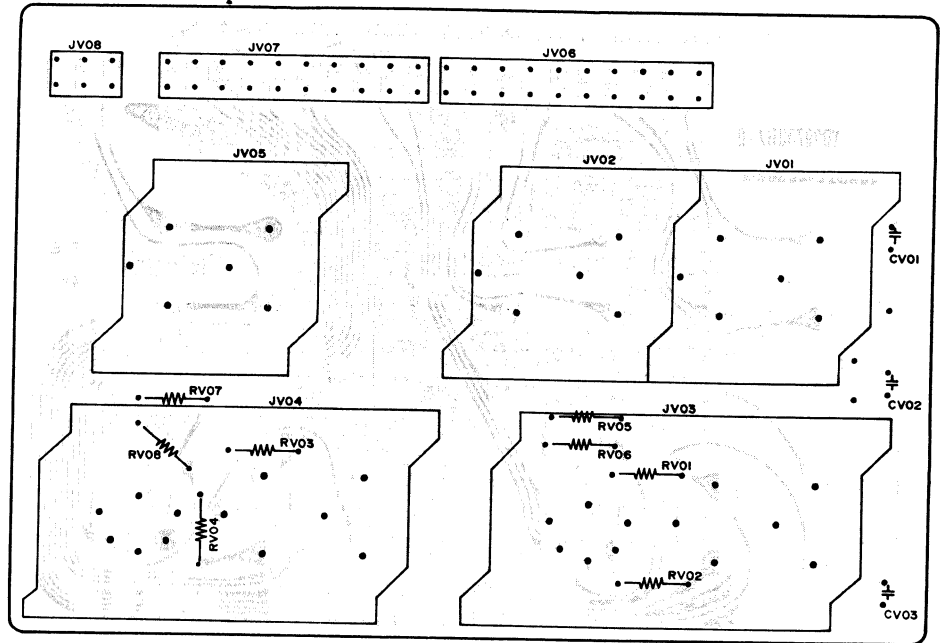
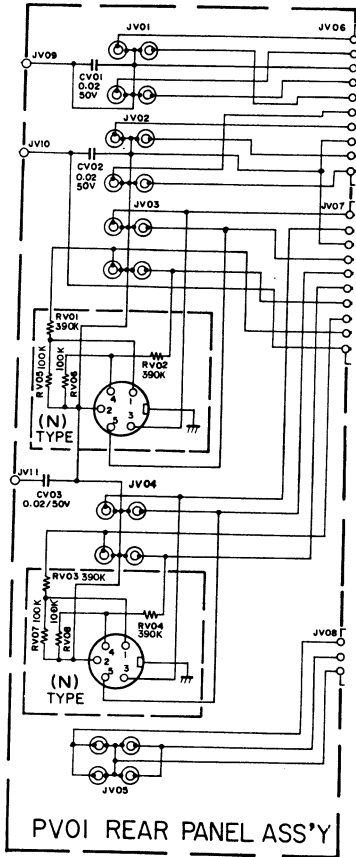


6.5 Main Chassis Component Locations (Top View) for Europe

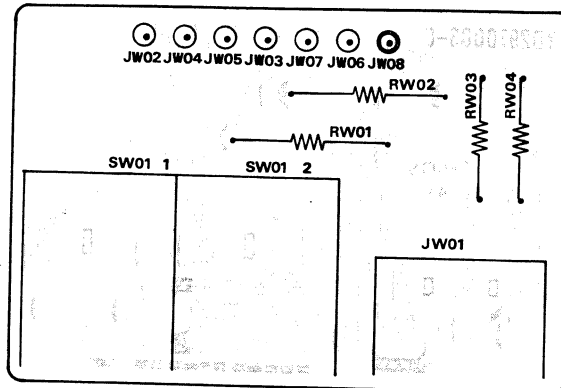
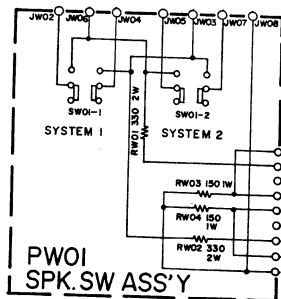


7. DIAGRAM AND COMPONENT LOCATIONS

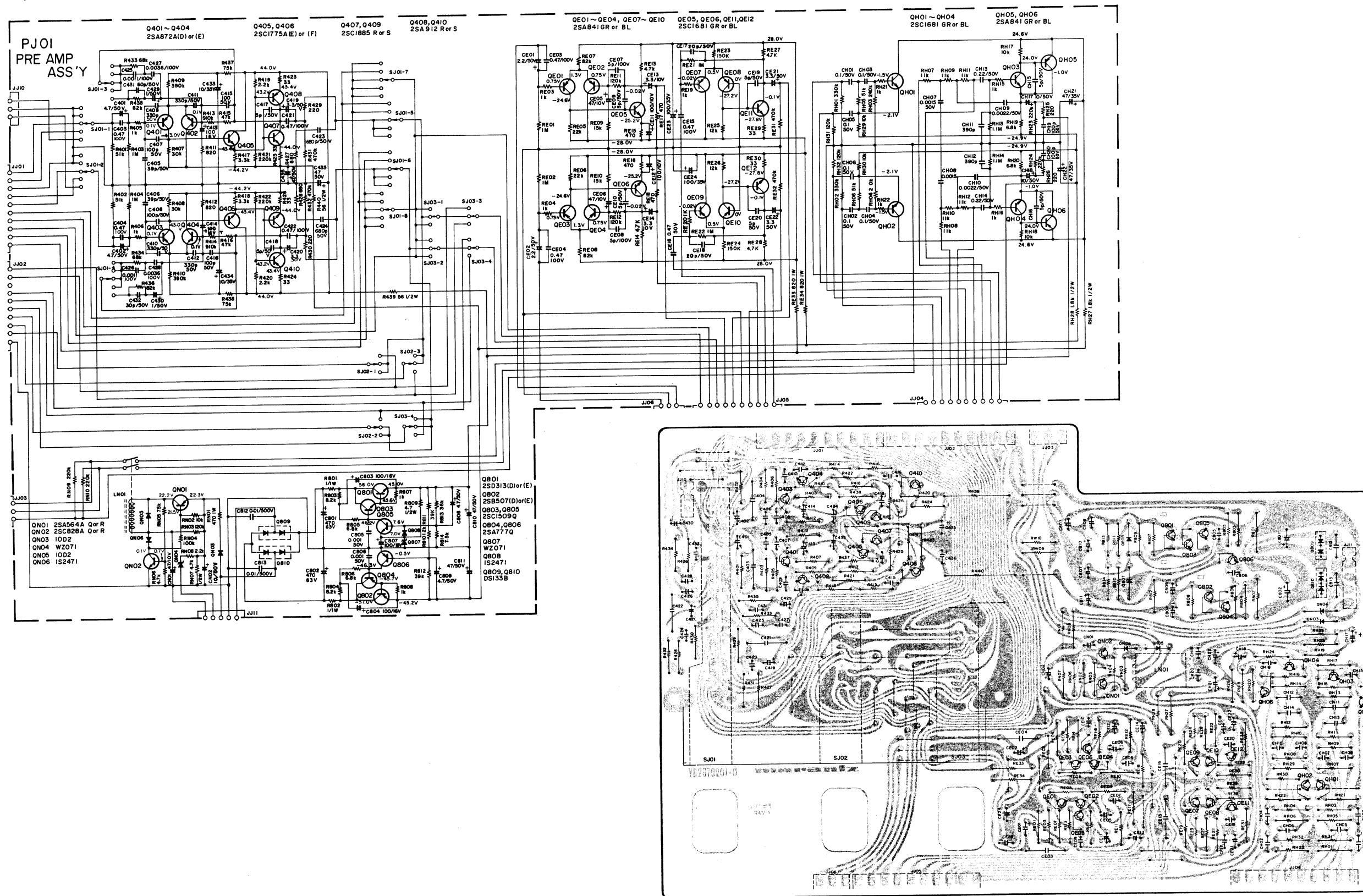
7.1 Rear Panel Assembly (PV01) Schematic Diagram and Component Locations



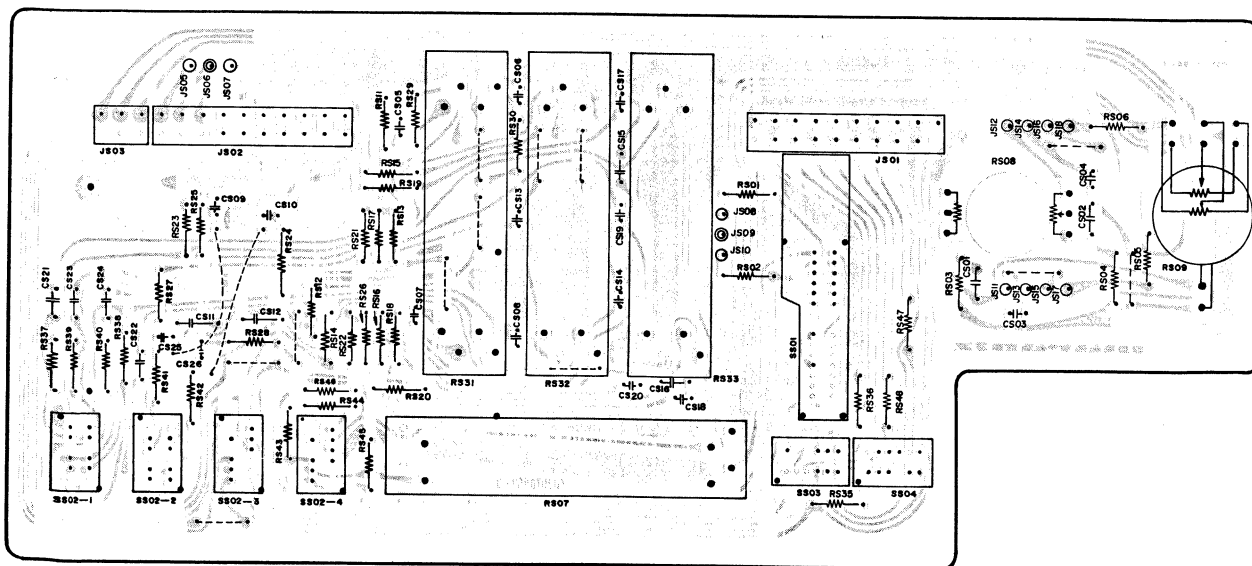
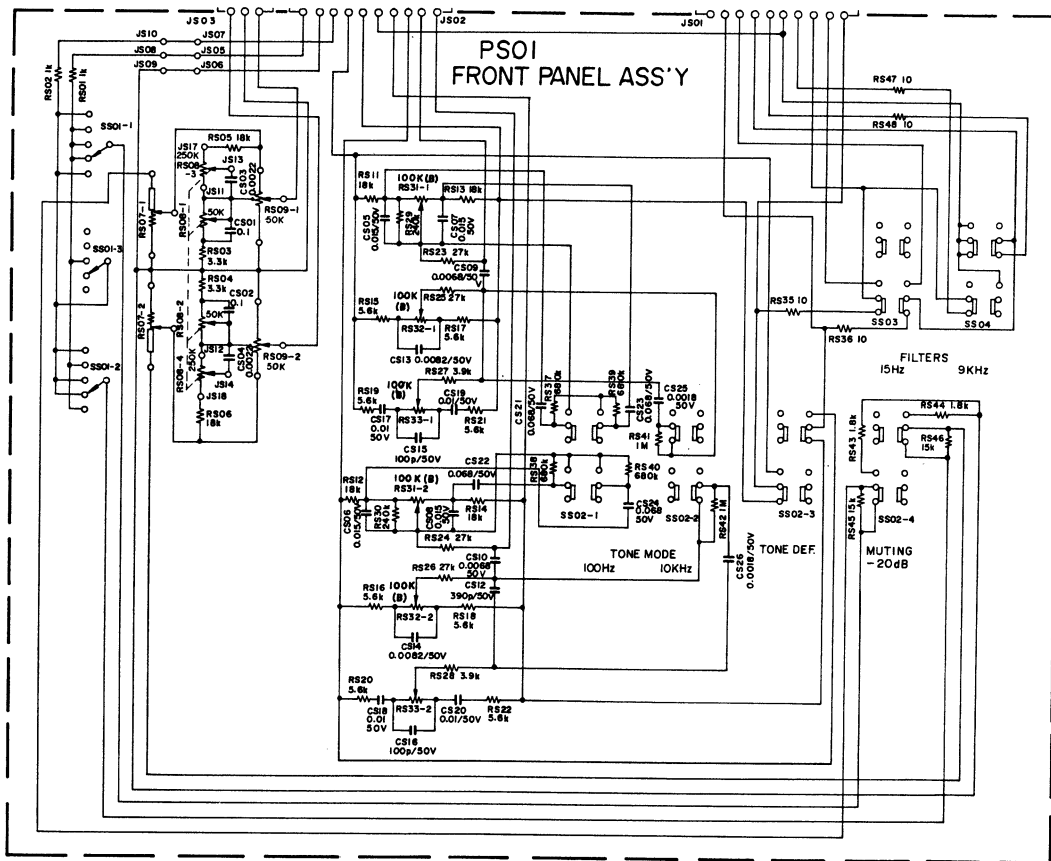
7.2 Speaker Switch Assembly (PW01) Schematic Diagram and Component Locations



7.3 Pre-Amp. Assembly (PJ01) Schematic Diagram and Component Locations

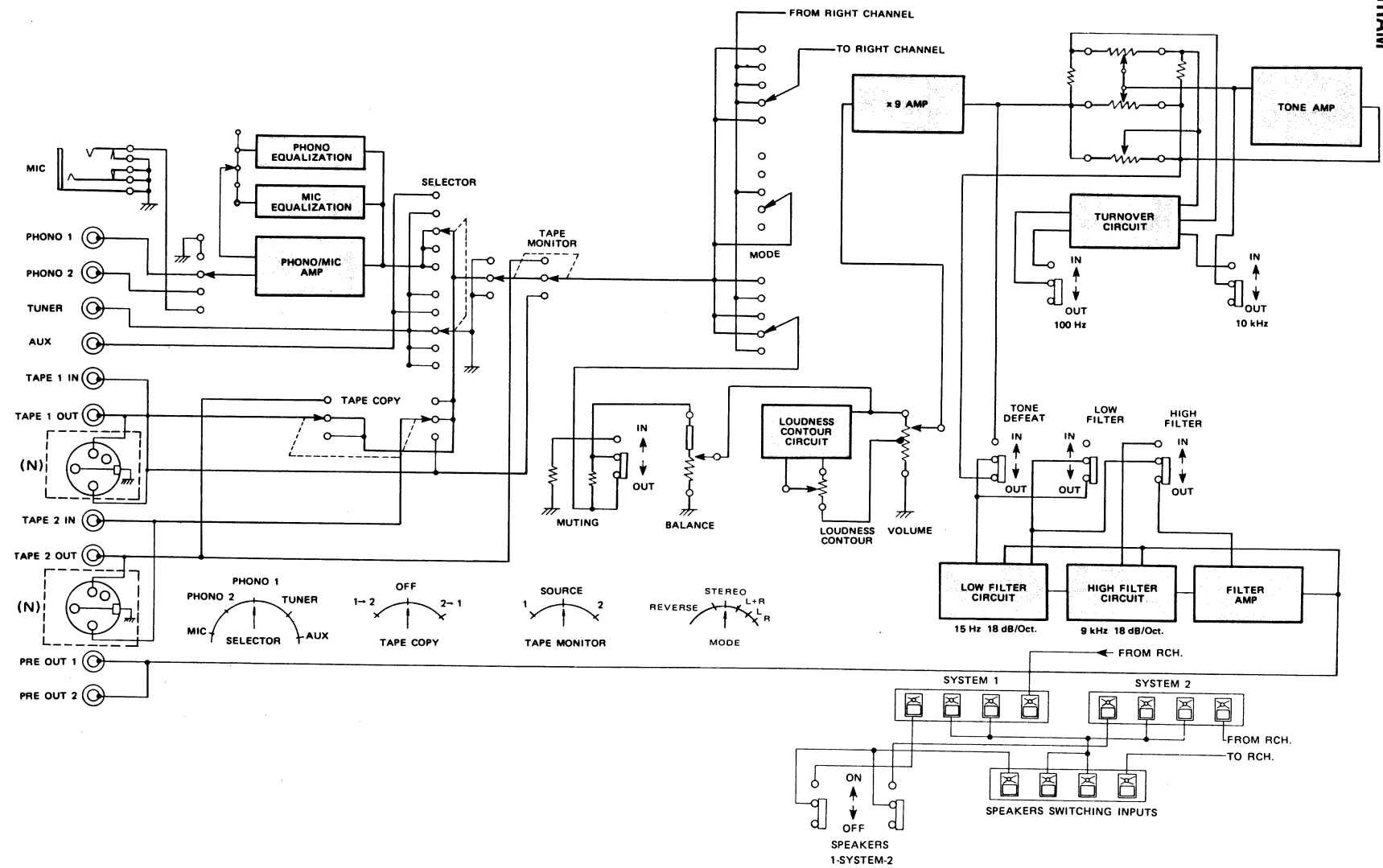


7.4 Front Panel Assembly (PS01) Schematic Diagram and Component Locations



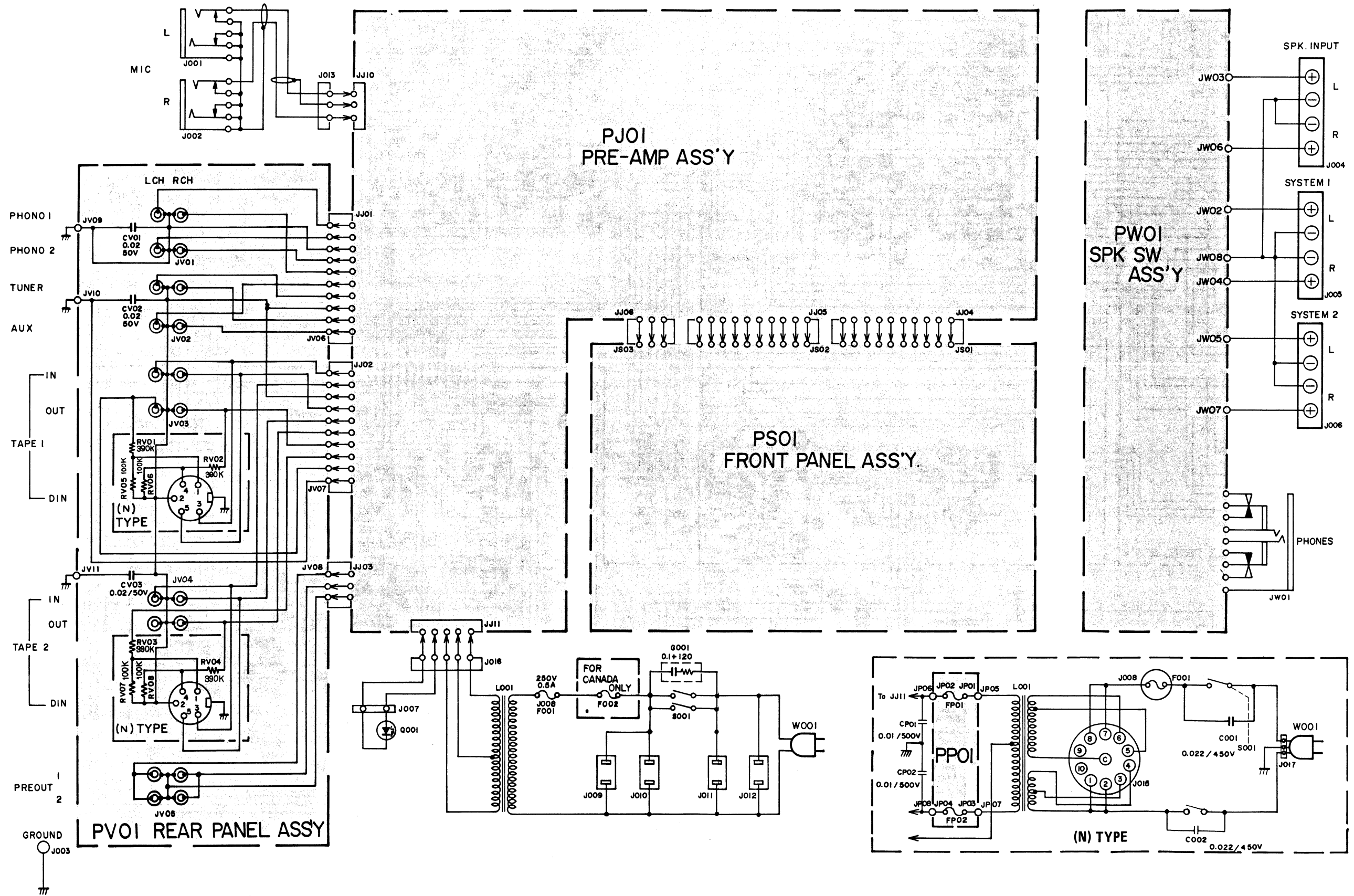
8. BLOCK DIAGRAM

10



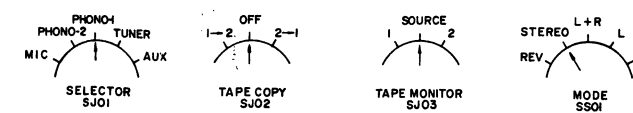
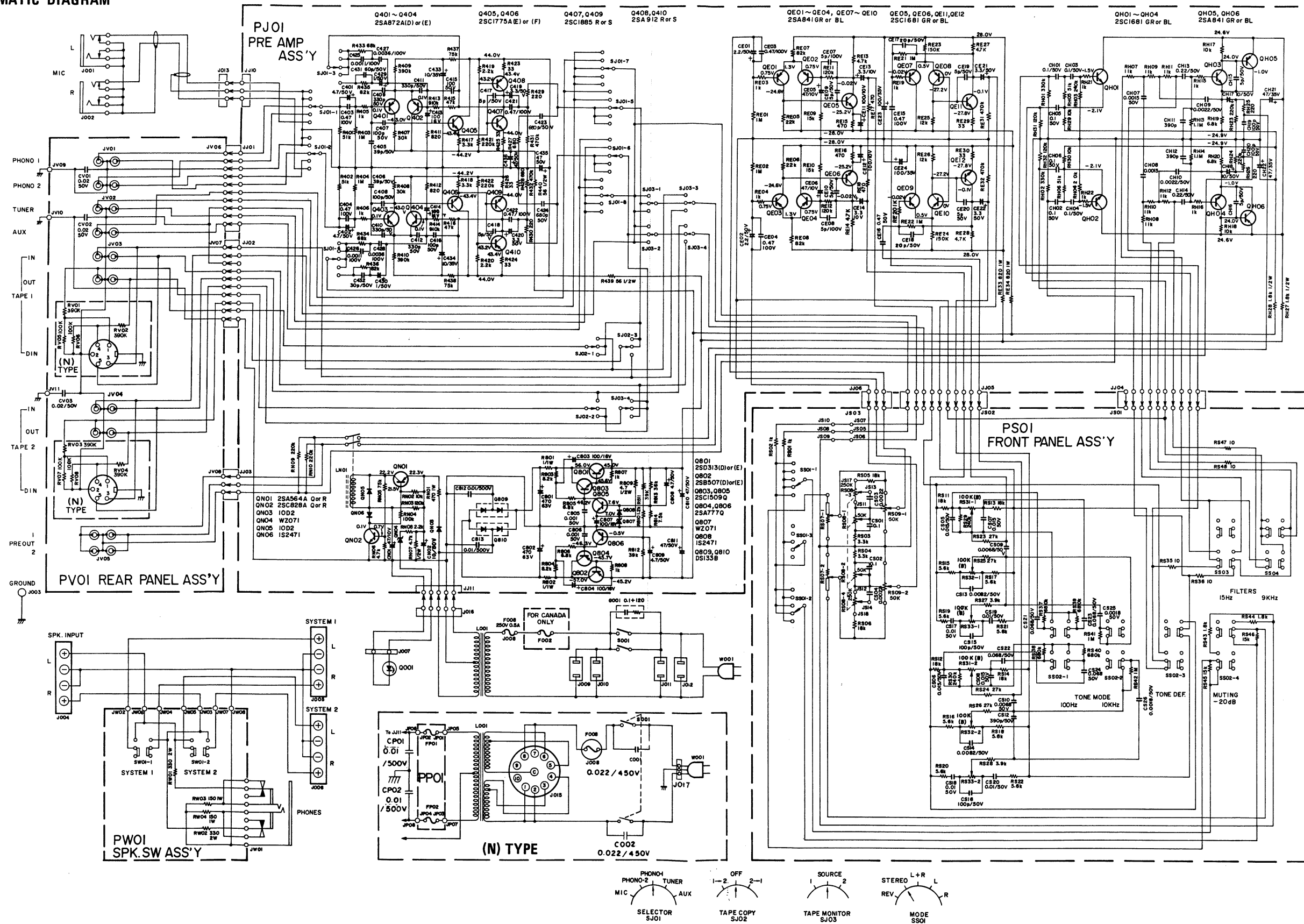
9. CONNECTION DIAGRAM

model 3250

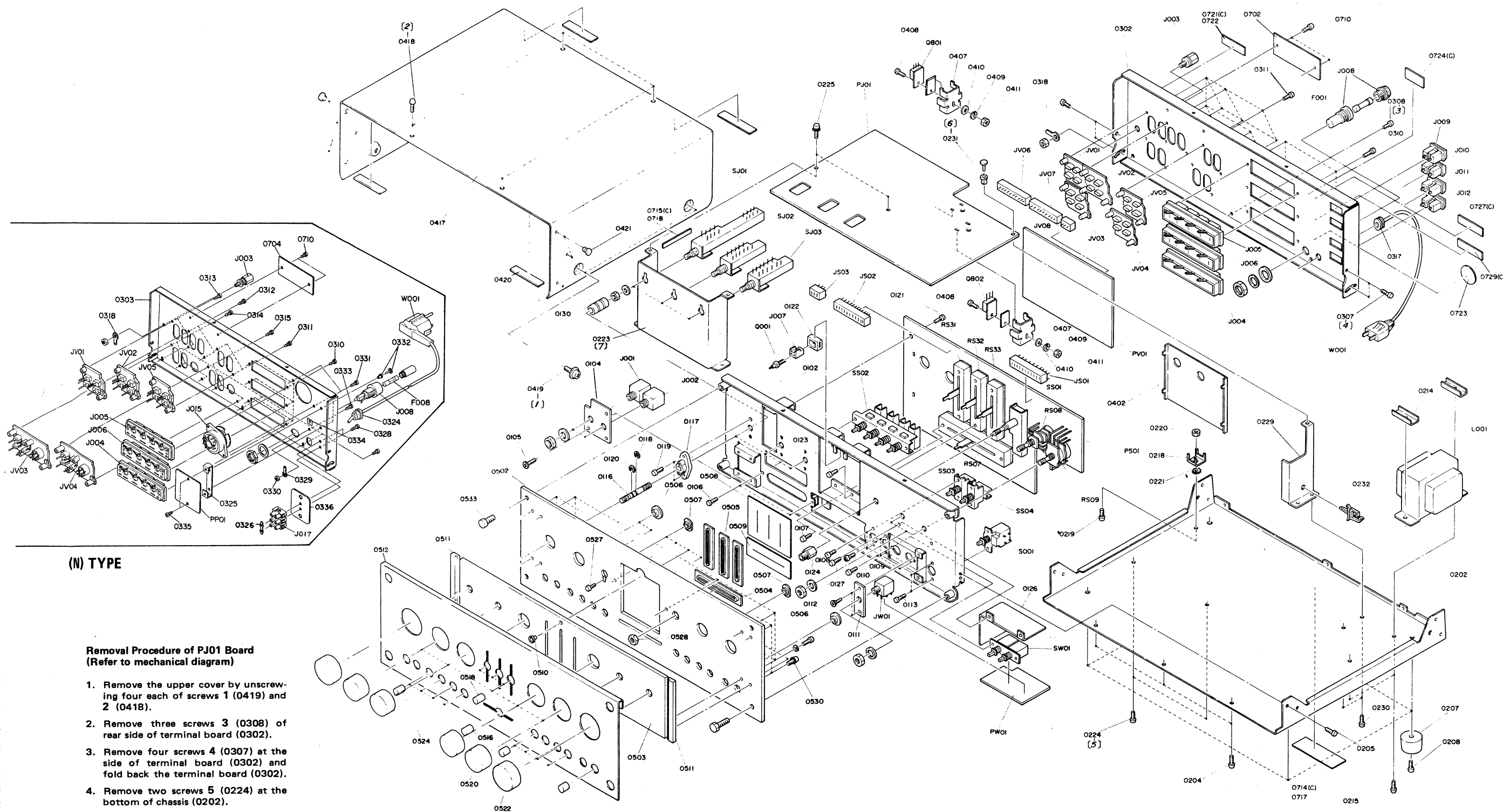


10. SCHEMATIC DIAGRAM

model 3250



11. EXPLODED MECHANICAL DIAGRAM



(N) TYPE

Removal Procedure of PJ01 Board (Refer to mechanical diagram)

1. Remove the upper cover by unscrewing four each of screws 1 (0419) and 2 (0418).
2. Remove three screws 3 (0308) of rear side of terminal board (0302).
3. Remove four screws 4 (0307) at the side of terminal board (0302) and fold back the terminal board (0302).
4. Remove two screws 5 (0224) at the bottom of chassis (0202).
5. Disengaging the clamp 6 (0231) on the board, shift the board with the mounting bracket 7 (0223) toward the rear.

12. PARTS LIST

• (U) for U.S.A.
• (C) for Canada
• (N) for Europe

• (U) for U.S.A.
• (C) for Canada
• (N) for Europe

Table with 4 columns: REF. DESIG., Q'TY (U, C, N), PART NO., DESCRIPTION. Includes sections for Front Panel Assembly, Rotary SW. Fitting, P.W.B. Fitting, Terminal Board, Front Panel, For Front P.W.B., For Amp. P.W.B., Cover, Labels, and Chassis.

Table with 4 columns: REF. DESIG., Q'TY (U, C, N), PART NO., DESCRIPTION. Includes sections for Printed Mater, Packing Material, Guarantee Card, and PV01 Rear Panel Ass'y Board.

- (U) for U.S.A.
- (C) for Canada
- (N) for Europe

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
RS41	1	1	1	RT05105140	Resistor, 1MΩ ±5% ¼W
RS42	1	1	1	RT05105140	Resistor, 1MΩ ±5% ¼W
RS43	1	1	1	RT05182140	Resistor, 1.8kΩ ±5% ¼W
RS44	1	1	1	RT05182140	Resistor, 1.8kΩ ±5% ¼W
RS45	1	1	1	RT05153140	Resistor, 15kΩ ±5% ¼W
RS46	1	1	1	RT05153140	Resistor, 15kΩ ±5% ¼W
RS47	1	1	1	RT05100140	Resistor, 10Ω ±5% ¼W
RS48	1	1	1	RT05100140	Resistor, 10Ω ±5% ¼W
CS01	1	1	1	DF15104010	Film Cap., 0.1μF ±5% 50V
CS02	1	1	1	DF15104010	Film Cap., 0.1μF ±5% 50V
CS03	1	1	1	DF15222010	Film Cap., 0.0022μF ±5% 50V
CS04	1	1	1	DF15222010	Film Cap., 0.0022μF ±5% 50V
CS05	1	1	1	DF15153010	Film Cap., 0.015μF ±5% 50V
CS06	1	1	1	DF15153010	Film Cap., 0.015μF ±5% 50V
CS07	1	1	1	DF15153010	Film Cap., 0.015μF ±5% 50V
CS08	1	1	1	DF15153010	Film Cap., 0.015μF ±5% 50V
CS09	1	1	1	DF15682010	Film Cap., 0.0068μF ±5% 50V
CS10	1	1	1	DF15682010	Film Cap., 0.0068μF ±5% 50V
CS11	1	1	1	DF65391010	Film Cap., 390pF ±5%
CS12	1	1	1	DF65391010	Film Cap., 390pF ±5%
CS13	1	1	1	DF15822010	Film Cap., 0.0082μF ±5% 50V
CS14	1	1	1	DF15822010	Film Cap., 0.0082μF ±5% 50V
CS15	1	1	1	DD15101020	Ceramic Cap., 100pF ±5% 50V
CS16	1	1	1	DD15101020	Ceramic Cap., 100pF ±5% 50V
CS17	1	1	1	DF15103010	Film Cap., 0.01μF ±5% 50V
CS18	1	1	1	DF15103010	Film Cap., 0.01μF ±5% 50V
CS19	1	1	1	DF15103010	Film Cap., 0.01μF ±5% 50V
CS20	1	1	1	DF15103010	Film Cap., 0.01μF ±5% 50V
CS21	1	1	1	DF15683010	Film Cap., 0.068μF ±5% 50V
CS22	1	1	1	DF15683010	Film Cap., 0.068μF ±5% 50V
CS23	1	1	1	DF15683010	Film Cap., 0.068μF ±5% 50V
CS24	1	1	1	DF15683010	Film Cap., 0.068μF ±5% 50V
CS25	1	1	1	DF15182010	Film Cap., 0.0018μF ±5% 50V
CS26	1	1	1	DF15182010	Film Cap., 0.0018μF ±5% 50V
SS01	1	1	1	SR04050100	Rotary Switch, Mode Sw.
SS02	1	1	1	SP04040170	Pushswitch, Tone, Mode 100Hz, 10kHz, Def.
SS03	1	1	1	SP04010210	Pushswitch, Filter 15Hz
SS04	1	1	1	SP04010210	Pushswitch, Filter 9kHz
JS01	1	1	1	YJ06000400	Socket 10P.
JS02	1	1	1	YJ06000400	Socket 10P.
JS03	1	1	1	YJ06000330	Socket 3P.
JS04	1	1	1	YJ06000330	Socket 3P.
JS13	10	10	10	YP10001130	Plug
PJ01	1	1	1	YD29702010	PJ01 PRE-AMP. BOARD P.W. Board
	1	1	1	ZZ29702010	P.W. Board Assembly
PJ08	26	26	26	2933118020	Spacer
PJ11	36	36	36	75061251P0	Jumper
R401	1	1	1	RN05513140	Resistor, 51kΩ ±5% ¼W
R402	1	1	1	RN05513140	Resistor, 51kΩ ±5% ¼W
R403	1	1	1	RN05105140	Resistor, 1MΩ ±5% ¼W
R404	1	1	1	RN05105140	Resistor, 1MΩ ±5% ¼W
R405	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
R406	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
R407	1	1	1	RN05303140	Resistor, 30kΩ ±5% ¼W

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
R408	1	1	1	RN05303140	Resistor, 30kΩ ±5% ¼W
R409	1	1	1	RN05394140	Resistor, 390kΩ ±5% ¼W
R410	1	1	1	RN05394140	Resistor, 390kΩ ±5% ¼W
R411	1	1	1	RT02821140	Resistor, 820Ω ±2% ¼W
R412	1	1	1	RT02821140	Resistor, 820Ω ±2% ¼W
R413	1	1	1	RT02914140	Resistor, 910kΩ ±2% ¼W
R414	1	1	1	RT02914140	Resistor, 910kΩ ±2% ¼W
R415	1	1	1	RT02473140	Resistor, 47kΩ ±2% ¼W
R416	1	1	1	RT02473140	Resistor, 47kΩ ±2% ¼W
R417	1	1	1	RT05332140	Resistor, 3.3kΩ ±5% ¼W
R418	1	1	1	RT05332140	Resistor, 3.3kΩ ±5% ¼W
R419	1	1	1	RT05222140	Resistor, 2.2kΩ ±5% ¼W
R420	1	1	1	RT05222140	Resistor, 2.2kΩ ±5% ¼W
R421	1	1	1	RT05224140	Resistor, 220kΩ ±5% ¼W
R422	1	1	1	RT05224140	Resistor, 220kΩ ±5% ¼W
R423	1	1	1	RT05330140	Resistor, 33Ω ±5% ¼W
R424	1	1	1	RT05330140	Resistor, 33Ω ±5% ¼W
R425	1	1	1	RT05330140	Resistor, 33Ω ±5% ¼W
R426	1	1	1	RT05330140	Resistor, 33Ω ±5% ¼W
R427	1	1	1	RT05681140	Resistor, 680Ω ±5% ¼W
R428	1	1	1	RT05681140	Resistor, 680Ω ±5% ¼W
R429	1	1	1	RT05221140	Resistor, 220Ω ±5% ¼W
R430	1	1	1	RT05221140	Resistor, 220Ω ±5% ¼W
R431	1	1	1	RT05474140	Resistor, 470kΩ ±5% ¼W
R432	1	1	1	RT05474140	Resistor, 470kΩ ±5% ¼W
R433	1	1	1	RT02683140	Resistor, 68kΩ ±2% ¼W
R434	1	1	1	RT02683140	Resistor, 68kΩ ±2% ¼W
R435	1	1	1	RT05823140	Resistor, 82kΩ ±5% ¼W
R436	1	1	1	RT05823140	Resistor, 82kΩ ±5% ¼W
R437	1	1	1	RT05753140	Resistor, 75kΩ ±5% ¼W
R438	1	1	1	RT05753140	Resistor, 75kΩ ±5% ¼W
R439	1	1	1	GF05560120	Resistor, 56Ω ±5% ¼W
R440	1	1	1	GF05560120	Resistor, 56Ω ±5% ¼W
C401	1	1	1	EE47505040	Electrolytic Cap., 47μF 50V
C402	1	1	1	EE47505040	Electrolytic Cap., 47μF 50V
C403	1	1	1	DF16474510	Film Cap., 0.47μF ±10% 100V
C404	1	1	1	DF16474510	Film Cap., 0.47μF ±10% 100V
C405	1	1	1	DD15390010	Ceramic Cap., 39pF ±5% 50V
C406	1	1	1	DD15390010	Ceramic Cap., 39pF ±5% 50V
C407	1	1	1	DD15101020	Ceramic Cap., 100pF ±5% 50V
C408	1	1	1	DD15101020	Ceramic Cap., 100pF ±5% 50V
C409	1	1	1	DD15331010	Ceramic Cap., 330pF ±5% 50V
C410	1	1	1	DD15331010	Ceramic Cap., 330pF ±5% 50V
C411	1	1	1	DD15331010	Ceramic Cap., 330pF ±5% 50V
C412	1	1	1	DD15331010	Ceramic Cap., 330pF ±5% 50V
C413	1	1	1	EE10701640	Electrolytic Cap., 100μF 16V
C414	1	1	1	EE10701640	Electrolytic Cap., 100μF 16V
C415	1	1	1	DF65101010	Film Cap., 100pF ±5% 50V
C416	1	1	1	DF65101010	Film Cap., 100pF ±5% 50V
C417	1	1	1	DD11050010	Ceramic Cap., 5pF ±0.5pF 50V
C418	1	1	1	DD11050010	Ceramic Cap., 5pF ±0.5pF 50V
C419	1	1	1	EE33505040	Electrolytic Cap., 3.3μF 50V
C420	1	1	1	EE33505040	Electrolytic Cap., 3.3μF 50V
C421	1	1	1	DF16474510	Film Cap., 0.47μF ±10% 100V
C422	1	1	1	DF16474510	Film Cap., 0.47μF ±10% 100V
C423	1	1	1	DD15391010	Film Cap., 390pF ±5% 50V
C424	1	1	1	DD15391010	Film Cap., 390pF ±5% 50V

• (U) for U.S.A.
 • (C) for Canada
 • (N) for Europe

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
C425	1	1	1	DF14112010	Film Cap., 0.0011 μ F \pm 2% 100V
C426	1	1	1	DF14112010	Film Cap., 0.0011 μ F \pm 2% 100V
C427	1	1	1	DF14362010	Film Cap., 0.0036 μ F \pm 2% 100V
C428	1	1	1	DF14362010	Film Cap., 0.0036 μ F \pm 2% 100V
C429	1	1	1	EE10505040	Electrolytic Cap., 1 μ F 50V
C430	1	1	1	EE10505040	Electrolytic Cap., 1 μ F 50V
C431	1	1	1	DD15300010	Ceramic Cap., 30pF \pm 5% 50V
C432	1	1	1	DD15300010	Ceramic Cap., 30pF \pm 5% 50V
C433	1	1	1	EA10603590	Electrolytic Cap., 10 μ F 35V
C434	1	1	1	EA10603590	Electrolytic Cap., 10 μ F 35V
C435	1	1	1	EA47605090	Electrolytic Cap., 47 μ F 50V
C436	1	1	1	EA47605090	Electrolytic Cap., 47 μ F 50V
Q401	1	1	1	HT108722D0	Transistor, 2SA872A (D or E)
Q402	1	1	1	HT108722D0	Transistor, 2SA872A (D or E)
Q403	1	1	1	HT108722D0	Transistor, 2SA872A (D or E)
Q404	1	1	1	HT108722D0	Transistor, 2SA872A (D or E)
Q405	1	1	1	HT317752E0	Transistor, 2SC1775A (E or F)
Q406	1	1	1	HT317752E0	Transistor, 2SC1775A (E or F)
Q407	1	1	1	HT318852C0	Transistor, 2SC1885 (R or S)
Q408	1	1	1	HT109122C0	Transistor, 2SA912 (R or S)
Q409	1	1	1	HT318852S0	Transistor, 2SC1885 (R or S)
Q410	1	1	1	HT109122S0	Transistor, 2SA912 (R or S)
RE01	1	1	1	RT05105140	Resistor, 1M Ω \pm 5% $\frac{1}{4}$ W
RE02	1	1	1	RT05105140	Resistor, 1M Ω \pm 5% $\frac{1}{4}$ W
RE03	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RE04	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RE05	1	1	1	RT05223140	Resistor, 22k Ω \pm 5% $\frac{1}{4}$ W
RE06	1	1	1	RT05223140	Resistor, 22k Ω \pm 5% $\frac{1}{4}$ W
RE07	1	1	1	RT05823140	Resistor, 82k Ω \pm 5% $\frac{1}{4}$ W
RE08	1	1	1	RT05823140	Resistor, 82k Ω \pm 5% $\frac{1}{4}$ W
RE09	1	1	1	RT02153140	Resistor, 15k Ω \pm 2% $\frac{1}{4}$ W
RE10	1	1	1	RT02153140	Resistor, 15k Ω \pm 2% $\frac{1}{4}$ W
RE11	1	1	1	RT02124140	Resistor, 120k Ω \pm 2% $\frac{1}{4}$ W
RE12	1	1	1	RT02124140	Resistor, 120k Ω \pm 2% $\frac{1}{4}$ W
RE13	1	1	1	RT05472140	Resistor, 4.7k Ω \pm 5% $\frac{1}{4}$ W
RE14	1	1	1	RT05472140	Resistor, 4.7k Ω \pm 5% $\frac{1}{4}$ W
RE15	1	1	1	RT05471140	Resistor, 470 Ω \pm 5% $\frac{1}{4}$ W
RE16	1	1	1	RT05471140	Resistor, 470 Ω \pm 5% $\frac{1}{4}$ W
RE17	1	1	1	RT05474140	Resistor, 470k Ω \pm 5% $\frac{1}{4}$ W
RE18	1	1	1	RT05474140	Resistor, 470k Ω \pm 5% $\frac{1}{4}$ W
RE19	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RE20	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RE21	1	1	1	RT05105140	Resistor, 1M Ω \pm 5% $\frac{1}{4}$ W
RE22	1	1	1	RT05105140	Resistor, 1M Ω \pm 5% $\frac{1}{4}$ W
RE23	1	1	1	RT05154140	Resistor, 150k Ω \pm 5% $\frac{1}{4}$ W
RE24	1	1	1	RT05154140	Resistor, 150k Ω \pm 5% $\frac{1}{4}$ W
RE25	1	1	1	RT05123140	Resistor, 12k Ω \pm 5% $\frac{1}{4}$ W
RE26	1	1	1	RT05123140	Resistor, 12k Ω \pm 5% $\frac{1}{4}$ W
RE27	1	1	1	RT05472140	Resistor, 4.7k Ω \pm 5% $\frac{1}{4}$ W
RE28	1	1	1	RT05472140	Resistor, 4.7k Ω \pm 5% $\frac{1}{4}$ W
RE29	1	1	1	RT05330140	Resistor, 33 Ω \pm 5% $\frac{1}{4}$ W
RE30	1	1	1	RT05330140	Resistor, 33 Ω \pm 5% $\frac{1}{4}$ W
RE31	1	1	1	RT05474140	Resistor, 470k Ω \pm 5% $\frac{1}{4}$ W
RE32	1	1	1	RT05474140	Resistor, 470k Ω \pm 5% $\frac{1}{4}$ W
RE33	1	1	1	GJ05821010	Resistor, 820 Ω \pm 5% 1W
RE34	1	1	1	GJ05821010	Resistor, 820 Ω \pm 5% 1W
CE01	1	1	1	EE22505040	Electrolytic Cap., 2.2 μ F 50V

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
CE02	1	1	1	EE22505040	Electrolytic Cap., 2.2 μ F 50V
CE03	1	1	1	DF16474510	Film Cap., 0.47 μ F \pm 10% 100V
CE04	1	1	1	DF16474510	Film Cap., 0.47 μ F \pm 10% 100V
CE05	1	1	1	EE47601040	Electrolytic Cap., 47 μ F 10V
CE06	1	1	1	EE47601040	Electrolytic Cap., 47 μ F 10V
CE07	1	1	1	DD11050010	Ceramic Cap., 5pF \pm 0.5% 50V
CE08	1	1	1	DD11050010	Ceramic Cap., 5pF \pm 0.5% 50V
CE09	1	1	1	DD11050010	Ceramic Cap., 5pF \pm 0.5% 50V
CE10	1	1	1	DD11050010	Ceramic Cap., 5pF \pm 0.5% 50V
CE11	1	1	1	EA10701090	Electrolytic Cap., 100 μ F 10V
CE12	1	1	1	EA10701090	Electrolytic Cap., 100 μ F 10V
CE13	1	1	1	EE33505040	Electrolytic Cap., 3.3 μ F 50V
CE14	1	1	1	EE33505040	Electrolytic Cap., 3.3 μ F 50V
CE15	1	1	1	DF16474510	Film Cap., 0.47 μ F \pm 10% 100V
CE16	1	1	1	DF16474510	Film Cap., 0.47 μ F \pm 10% 100V
CE17	1	1	1	DD15200010	Ceramic Cap., 20pF \pm 0.5% 50V
CE18	1	1	1	DD15200010	Ceramic Cap., 20pF \pm 0.5% 50V
CE19	1	1	1	DD11050010	Ceramic Cap., 5pF \pm 0.5% 50V
CE20	1	1	1	DD11050010	Ceramic Cap., 5pF \pm 0.5% 50V
CE21	1	1	1	EE33505040	Electrolytic Cap., 3.3 μ F 50V
CE22	1	1	1	EE33505040	Electrolytic Cap., 3.3 μ F 50V
CE23	1	1	1	EA10703590	Electrolytic Cap., 100 μ F 35V
CE24	1	1	1	EA10703590	Electrolytic Cap., 100 μ F 35V
QE01	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE02	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE03	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE04	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE05	1	1	1	HT316812A0	Transistor, 2SC1681 (G R or BL)
QE06	1	1	1	HT316812A0	Transistor, 2SC1681 (G R or BL)
QE07	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE08	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE09	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE10	1	1	1	HT108412A0	Transistor, 2SA841 (G R or BL)
QE11	1	1	1	HT316812A0	Transistor, 2SC1681 (G R or BL)
QE12	1	1	1	HT316812A0	Transistor, 2SC1681 (G R or BL)
RH01	1	1	1	RT05334140	Resistor, 330k Ω \pm 5% $\frac{1}{4}$ W
RH02	1	1	1	RT05334140	Resistor, 330k Ω \pm 5% $\frac{1}{4}$ W
RH03	1	1	1	RT05244140	Resistor, 240k Ω \pm 5% $\frac{1}{4}$ W
RH04	1	1	1	RT05244140	Resistor, 240k Ω \pm 5% $\frac{1}{4}$ W
RH05	1	1	1	RT05513140	Resistor, 51k Ω \pm 5% $\frac{1}{4}$ W
RH06	1	1	1	RT05513140	Resistor, 51k Ω \pm 5% $\frac{1}{4}$ W
RH07	1	1	1	RT05113140	Resistor, 11k Ω \pm 5% $\frac{1}{4}$ W
RH08	1	1	1	RT05113140	Resistor, 11k Ω \pm 5% $\frac{1}{4}$ W
RH09	1	1	1	RT05113140	Resistor, 11k Ω \pm 5% $\frac{1}{4}$ W
RH10	1	1	1	RT05113140	Resistor, 11k Ω \pm 5% $\frac{1}{4}$ W
RH11	1	1	1	RT05113140	Resistor, 11k Ω \pm 5% $\frac{1}{4}$ W
RH12	1	1	1	RT05113140	Resistor, 11k Ω \pm 5% $\frac{1}{4}$ W
RH13	1	1	1	RT05115140	Resistor, 1.1M Ω \pm 5% $\frac{1}{4}$ W
RH14	1	1	1	RT05115140	Resistor, 1.1M Ω \pm 5% $\frac{1}{4}$ W
RH15	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RH16	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RH17	1	1	1	RT05103140	Resistor, 10k Ω \pm 5% $\frac{1}{4}$ W
RH18	1	1	1	RT05103140	Resistor, 10k Ω \pm 5% $\frac{1}{4}$ W
RH19	1	1	1	RT05682140	Resistor, 6.8k Ω \pm 5% $\frac{1}{4}$ W
RH20	1	1	1	RT05682140	Resistor, 6.8k Ω \pm 5% $\frac{1}{4}$ W
RH21	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W
RH22	1	1	1	RT05102140	Resistor, 1k Ω \pm 5% $\frac{1}{4}$ W

- (U) for U.S.A.
- (C) for Canada
- (N) for Europe

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION					REF. DESIG.	Q'TY			PART NO.	DESCRIPTION						
	U	C	N								U	C	N								
RH23	1	1	1	RT05224140	Resistor,	220kΩ	±5%	¼W		C806	1	1	1	DF16102010	Film Cap.,	0.001μF	±10%	50V			
RH24	1	1	1	RT05224140	Resistor,	220kΩ	±5%	¼W		C807	1	1	1	EA10701690	Electrolytic Cap.,	100μF		16V			
RH25	1	1	1	RT05221140	Resistor,	220Ω	±5%	¼W		C808	1	1	1	EA47505090	Electrolytic Cap.,	47μF		50V			
RH26	1	1	1	RT05221140	Resistor,	220Ω	±5%	¼W		C809	1	1	1	EA47505090	Electrolytic Cap.,	47μF		50V			
RH27	1	1	1	GF05182120	Resistor,	1.8kΩ	±5%	¼W		C810	1	1	1	EA47605090	Electrolytic Cap.,	47μF		50V			
RH28	1	1	1	GF05182120	Resistor,	1.8kΩ	±5%	¼W		C811	1	1	1	EA47605090	Electrolytic Cap.,	47μF		50V			
RH29	1	1	1	RT05103140	Resistor,	10kΩ	±5%	¼W		C812	1	1	1	DK18103510	Ceramic Cap.,	0.01μF		500V			
RH30	1	1	1	RT05103140	Resistor,	10kΩ	±5%	¼W		C813	1	1	1	DK18103510	Ceramic Cap.,	0.01μF		500V			
RH31	1	1	1	RT05124140	Resistor,	120kΩ	±5%	¼W		Q801	1	1	1	HT403132P0	Transistor,			2SD313 (D or E)			
RH32	1	1	1	RT05124140	Resistor,	120kΩ	±5%	¼W		Q802	1	1	1	HT205072P0	Transistor,			2SB507 (D or E)			
CH01	1	1	1	DF15104010	Film Cap.,	0.1μF	±5%	50V		Q803	1	1	1	HT315091Q0	Transistor,			2SC1509 Q			
CH02	1	1	1	DF15104010	Film Cap.,	0.1μF	±5%	50V		Q804	1	1	1	HT107771Q0	Transistor,			2SA777 Q			
CH03	1	1	1	DF15104010	Film Cap.,	0.1μF	±5%	50V		Q805	1	1	1	HT315091Q0	Transistor,			2SC1509 Q			
CH04	1	1	1	DF15104010	Film Cap.,	0.1μF	±5%	50V		Q806	1	1	1	HT107771Q0	Transistor,			2SA777 Q			
CH05	1	1	1	DF15104010	Film Cap.,	0.1μF	±5%	50V		Q807	1	1	1	HD30023090	Diode,			WZ-071			
CH06	1	1	1	DF15104010	Film Cap.,	0.1μF	±5%	50V		Q808	1	1	1	HD20003210	Diode,			1S2471 (B L)			
CH07	1	1	1	DF15152010	Film Cap.,	0.0015μF	±5%	50V		Q809	1	1	1	HD20013030	Diode,			DS133B			
CH08	1	1	1	DF15152010	Film Cap.,	0.0015μF	±5%	50V		Q810	1	1	1	HD20013030	Diode,			DS133B			
CH09	1	1	1	DF15222010	Film Cap.,	0.0022μF	±5%	50V		LN01	1	1	1	LY20240120	Relay,			24V			
CH10	1	1	1	DF15222010	Film Cap.,	0.0022μF	±5%	50V		RN01	1	1	1	GJ05471010	Resistor,	470Ω	±5%	1W			
CH11	1	1	1	DF65391010	Film Cap.,	390pF	±5%	50V		RN02	1	1	1	RT05103140	Resistor,	10kΩ	±5%	¼W			
CH12	1	1	1	DF65391010	Film Cap.,	390pF	±5%	50V		RN03	1	1	1	RT05124140	Resistor,	120kΩ	±5%	¼W			
CH13	1	1	1	DF17224010	Film Cap.,	0.22μF	±20%	50V		RN04	1	1	1	RT05104140	Resistor,	100kΩ	±5%	¼W			
CH14	1	1	1	DF17224010	Film Cap.,	0.22μF	±20%	50V		RN05	1	1	1	RT05753140	Resistor,	75kΩ	±5%	¼W			
CH15	1	1	1	DD15050010	Ceramic Cap.,	5pF	±5%	50V		RN06	1	1	1	RT05472140	Resistor,	4.7kΩ	±5%	¼W			
CH16	1	1	1	DD15050010	Ceramic Cap.,	5pF	±5%	50V		RN07	1	1	1	GF05472120	Resistor,	4.7kΩ	±5%	¼W			
CH17	1	1	1	EE10605040	Electrolytic Cap.,	10μF		50V		RN08	1	1	1	GF05222120	Resistor,	2.2kΩ	±5%	¼W			
CH18	1	1	1	EE10605040	Electrolytic Cap.,	10μF		50V		RN09	1	1	1	RT05224140	Resistor,	220kΩ	±5%	¼W			
CH19	1	1	1	DD15101020	Ceramic Cap.,	100pF	±5%	50V		RN10	1	1	1	RT05224140	Resistor,	220kΩ	±5%	¼W			
CH20	1	1	1	DD15101020	Ceramic Cap.,	100pF	±5%	50V		CN01	1	1	1	EA47601090	Electrolytic Cap.,	47μF		10V			
CH21	1	1	1	EA47603590	Electrolytic Cap.,	47μF		35V		CN02	1	1	1	EA10605090	Electrolytic Cap.,	10μF		50V			
CH22	1	1	1	EA47603590	Electrolytic Cap.,	47μF		35V		QN01	1	1	1	HT105642H0	Transistor,			2SA564A (Q or R)			
QH01	1	1	1	HT108412A0	Transistor,	2SA841	(GR or BL)			QN02	1	1	1	HT308282H0	Transistor,			2SC282A (Q or R)			
QH02	1	1	1	HT108412A0	Transistor,	2SA841	(GR or BL)			QN03	1	1	1	HD20001100	Diode,			10D-2			
QH03	1	1	1	HT316812A0	Transistor,	2SC1681	(GR or BL)			QN04	1	1	1	HD30023090	Diode,			WZ-071			
QH04	1	1	1	HT316812A0	Transistor,	2SC1681	(GR or BL)			QN05	1	1	1	HD20001100	Diode,			10D-2			
QH05	1	1	1	HT316812A0	Transistor,	2SC1681	(GR or BL)			QN06	1	1	1	HD20003210	Diode,			1S2471 (B L)			
QH06	1	1	1	HT316812A0	Transistor,	2SC1681	(GR or BL)			SJ01	1	1	1	SR08050360	Rotary Switch,			Selector			
R801	1	1	1	GJ05010010	Resistor,	1Ω	±5%	1W		SJ02	1	1	1	SR04030160	Rotary Switch,			Tape Copy			
R802	1	1	1	GJ05010010	Resistor,	1Ω	±5%	1W		SJ03	1	1	1	SR04030160	Rotary Switch,			Tape Monitor			
R803	1	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W		JJ01	1	1	1	YP06000400	Plug,			10P			
R804	1	1	1	RT05822140	Resistor,	8.2kΩ	±5%	¼W		JJ02	1	1	1	YP06000400	Plug,			10P			
R805	1	1	1	RT05682140	Resistor,	6.8kΩ	±5%	¼W		JJ03	1	1	1	YP06000330	Plug,			3P			
R806	1	1	1	RT05682140	Resistor,	6.8kΩ	±5%	¼W		JJ04	1	1	1	YP06000400	Plug,			10P			
R807	1	1	1	RT05102140	Resistor,	1kΩ	±5%	¼W		JJ05	1	1	1	YP06000400	Plug,			10P			
R808	1	1	1	RT05102140	Resistor,	1kΩ	±5%	¼W		JJ06	1	1	1	YP06000330	Plug,			3P			
R809	1	1	1	GF05472120	Resistor,	4.7kΩ	±5%	¼W		JJ10	1	1	1	YP06001040	Plug,			3P			
R810	1	1	1	RT05122140	Resistor,	1.2kΩ	±5%	¼W		JJ11	1	1	1	YP06001050	Plug,			5P			
R811	1	1	1	RT05393140	Resistor,	39kΩ	±5%	¼W													
R812	1	1	1	RT05393140	Resistor,	39kΩ	±5%	¼W													
R813	1	1	1	RT05363140	Resistor,	36kΩ	±5%	¼W													
R814	1	1	1	RT05752140	Resistor,	7.5kΩ	±5%	¼W													
C801	1	1	1	EA47706310	Electrolytic Cap.,	470μF		63V		PW01	1	1	1	YD29700030	P.W. Board						
C802	1	1	1	EA47706310	Electrolytic Cap.,	470μF		63V						ZZ29700030	P.W. Board Assembly						
C803	1	1	1	EA10701690	Electrolytic Cap.,	100μF		16V		PW08	4	4	4	3444118050	Spacer						
C804	1	1	1	EA10701690	Electrolytic Cap.,	100μF		16V		RW01	1	1	1	GJ05331020	Resistor,	330Ω	±5%	2W			
C805	1	1	1	DF16102010	Film Cap.,	0.001μF	±10%	50V		RW02	1	1	1	GJ05331020	Resistor,	330Ω	±5%	2W			
										RW03	1	1	1	GJ05151010	Resistor,	150Ω	±5%	1W			
										RW04	1	1	1	GJ05151010	Resistor,	150Ω	±5%	1W			

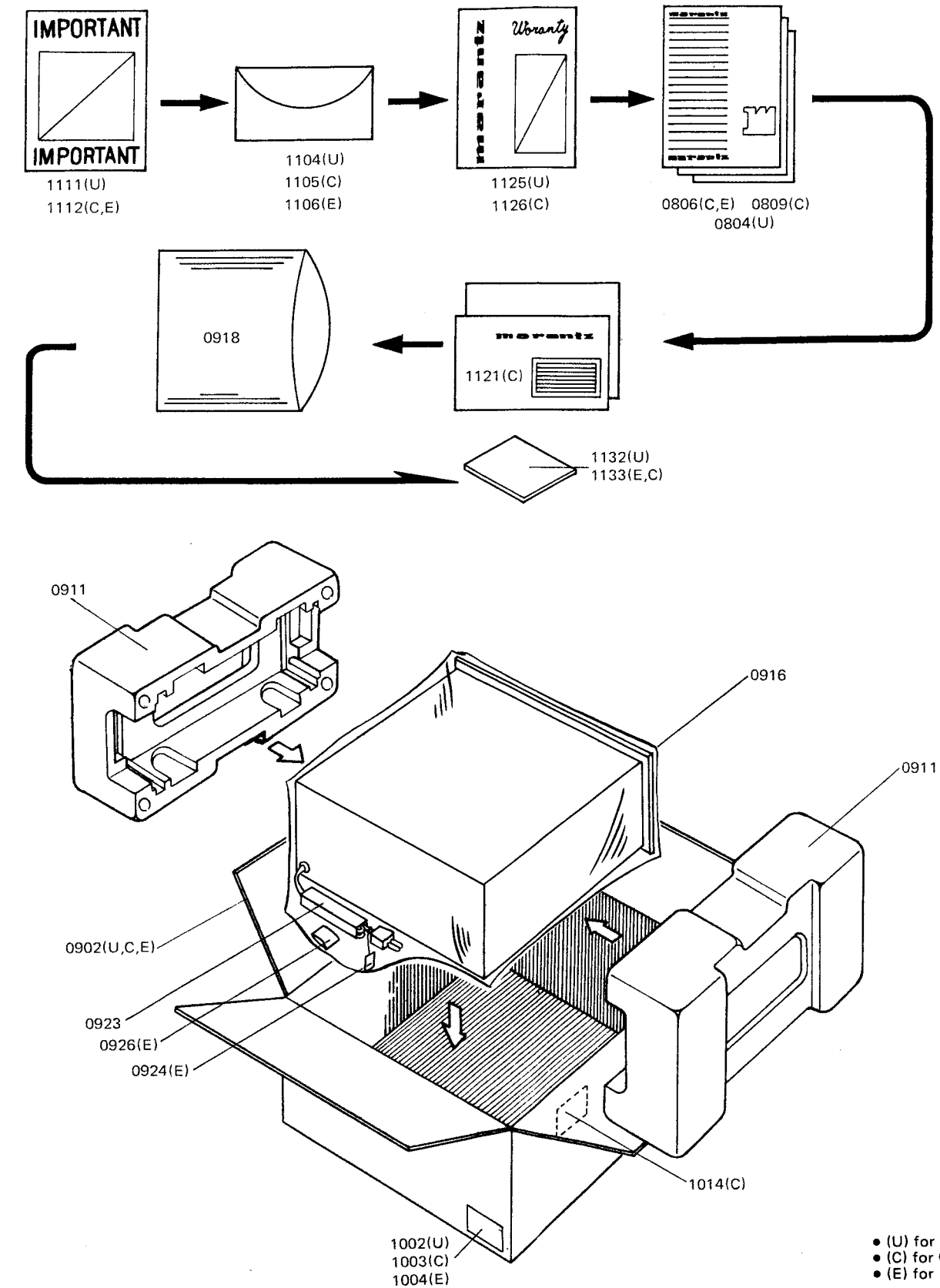
- (U) for U.S.A.
- (C) for Canada
- (N) for Europe

REF. DESIG.	Q'TY			PART NO.	DESCRIPTION
	U	C	N		
SW01	1	1	1	SP02020240	Pushswitch, Spkr. Sw.
JW01	1	1	1	YJ01000860	Jack, Headphone
JW02	7	7	7	YP10001130	Plug
JW08	1	1	1	SP02020210	Pushswitch, TV-5
S001	1	1	1	SP02010250	Pushswitch
Q001	1	1	1	HI10004030	LED
C001	1	1	1	DF17104560	Film Cap., 0.1 μ F
G001	1	1	1	BF10400040	Cap Comp., 0.1 μ F +120 Ω
C001	1	1	1	DO07223510	Oil-Paper Cap., 0.022 μ F 450V
C002	1	1	1	DO07223510	Oil-Paper Cap., 0.022 μ F 450V
F001	1	1	1	FS10050090	Fuse, 0.5A UL
F001	1	1	1	FS10031800	Fuse, 315mAT (20mm)
F002	1	1	1	FS20050030	Fuse, 0.5A
L001	1	1	1	TS16012020	Power Transformer
L001	1	1	1	TS16012040	Power Transformer
J001	1	1	1	YJ01001010	Jack, Mic.
J002	1	1	1	YJ01001010	Jack, Mic.
J003	1	1	1	YT01010050	Terminal, Ground
J004	1	1	1	YT03040160	Terminal, Spkr.
J005	1	1	1	YT03040160	Terminal, Spkr.
J006	1	1	1	YT03040160	Terminal, Spkr.
J007	1	1	1	YJ05000250	Jack, LED Socket
J008	1	1	1	YJ08000120	Jack, Fuse Holder (30mm)
J008	1	1	1	YJ08000220	Jack, Fuse Holder (20mm)
J009	1	1	1	YJ04000560	Jack, AC Outlet
J010	1	1	1	YJ04000560	Jack, AC Outlet
J011	1	1	1	YJ04000560	Jack, AC Outlet
J012	1	1	1	YJ04000560	Jack, AC Outlet
J013	1	1	1	YJ06001040	Jack, 3P
J015	1	1	1	BY03110010	Terminal
J016	1	1	1	YJ06001050	Jack, 5P
J017	1	1	1	YL09030010	Terminal, 3P
CP01	1	1	1	DK18103510	Ceramic Cap., 0.01 μ F 500V
CP02	1	1	1	DK18103510	Ceramic Cap., 0.01 μ F 500V
W001	1	1	1	YC02400170	AC Power Cord, UL, CSA 10A
W001	1	1	1	YC01900030	AC Power Cord
PP01	1	1	1	YF29700010	PP01 FUSE BOARD P.W. Board
PP01	1	1	1	ZZ29700010	P.W. Board Assembly
JP01	4	4	4	YJ08000200	Holder, Fuse
JP04	4	4	4	YP10001130	Plug
JP05	4	4	4	YP10001130	Plug
JP08	4	4	4	YP10001130	Plug
FPO1	1	1	1	FS10031800	Fuse, 315mAT (20mm)
FPO2	1	1	1	FS10031800	Fuse, 315mAT (20mm)

13. TECHNICAL SPECIFICATIONS

Rated Output Level	3 Volts RMS
Maximum Output Level (at 1 kHz) (tone controls out)	10 Volts 0.02% THD
Total Harmonic Distortion, 20 Hz - 20 kHz	
At Rated Output Level (3 Volts RMS)	0.01%
Intermodulation Distortion at Rated Output Level	0.01%
Phono Section	
Input Overload 1 kHz	310 mV
THD 100 mV input and 1 kHz	0.01%
Equivalent Input Noise ("A" weighted)	0.24 V
Dynamic Range	122dB
(Dynamic Range is the ratio of input overload to equivalent input noise)	
Input Sensitivity (ref. output 1.5 V)	1.8 mV
Input Impedance	47 k ohms
Input Capacitance	100pF
Frequency Response, RIAA 20 Hz - 20 kHz	0.2 dB
Signal to Noise Ratio (ref. to rated output and 7.75 mV input 1 kHz, "A" weighted)	90 dB
Microphone Input	
Sensitivity (ref. output 1.5 V)	1.8 mV
Input Impedance	47 k ohms
High Level Inputs (Aux, Tape, and Tuner)	
Input Sensitivity (ref. output 1.5 V)	180 mV
Input Impedance	20 k ohms
Frequency Response	
5 Hz - 60 kHz	1 dB
20 Hz - 20 kHz	0.1 dB
Signal to Noise Ratio (ref. to rated output and 775 mV input, "A" weighted)	98 dB
Output Levels	
Tape Out (ref. 7.75 mV at Phone inputs)	775 mV
Pre-Out (ref. 180 mV at Aux inputs)	1.5 Volts
(ref. 500 mV at Aux inputs)	4.2 Volts
Output Impedance	
Tape Out (phono mode)	330 Ohms
Pre-Out	220 Ohms
General	
Power Requirements	120 V AC, 60 Hz
Power Consumption	11 Watts
Dimensions	
Panel Width	416 mm (16-3/8 inches)
Panel Height	146 mm (5-3/4 inches)
Depth	239 mm (9-3/8 inches)
Weight	
Unit Alone	6.5 kg (14.3 lbs)
Packed for Shipment	7.9 kg (17.4 lbs)

14. PACKING MATERIAL EXPLODED VIEW



263

Model 3250



marantz

MARANTZ CO., INC. · P. O. BOX 577 · CHATSWORTH, CALIFORNIA · 91311



A WHOLLY-OWNED SUBSIDIARY OF SUPERSCOPE INC., CHATSWORTH, CALIFORNIA · 91311