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SERVICE MANUAL 3200

marantz

model 3200

Stereo Control Console

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INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 3200 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.

1. P.W. BOARD

As can be seen from the circuit diagram, the chassis of Model 3200 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. Phono Amp. | mounted on P.W. Board, P400 |
| 2. Pre & Tone Amp. | mounted on P.W. Board, PE00 |
| 3. Output Amp. & Relay Circuit | mounted on P.W. Board, PJ00 |
| 4. Power Supply | mounted on P.W. Board, P800 |
| 5. Speaker Switch & Loudness | mounted on P.W. Board, PS00 |
| 6. Tape Monitor & High Filter | mounted on P.W. Board, PT00 |

2. ALIGNMENT PROCEDURES

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

ITEM	SIGNAL APPLICATION	INDICATOR CONNECTION	ADJUSTMENT POINT	HOW TO ADJUST
POWER SUPPLY VOLTAGE ADJUSTMENT	—	J806	R805	75V DC AT J806
CHECK OF THE TECHNICAL SPEC.	PHONO, AUX, TAPE	TAPE OUT, PRE OUT	—	—

3. TEST EQUIPMENT REQUIRED FOR SERVICING

Item	Manufacturer and Model No. (or equivalent)	Function
Distortion Analyzer	Hewlett Packard, Model 331A or 333A	Measures distortion and voltage of amplifier output.
Audio Oscillator	Weston Model CVO-100P (NOTE: Less than 0.02 percent residual distortion is required.)	Sinewave and squarewave signal source.
Oscilloscope	Tektronix, Model 503; Data, Model 555	Waveform analysis and troubleshooting.
VTVM	RCA Senior Volt-Ohmyst, Model WV-98C	Voltage and resistance measurements.
AC Wattmeter	Simpson, Model 390	Monitors primary power consumption of amplifier.
AC Ammeter (0 to 10 amps)	Commercial Grade	Monitors amplifier output under short circuit condition.
Line Voltmeter (0 to 150 vac)	Commercial Grade	Monitors potential of primary power to amplifier.
Variable Autotransformer (0 to 140 vac, 10 amps)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohms across center pin and shell.	Shorts amplifier input to eliminate noise pickup.
Power Supply Bleeder Resistor (10 ohms at 1W)	Commercial Grade	Discharges power supply filter capacitors prior to disassembly or resistance measurements.

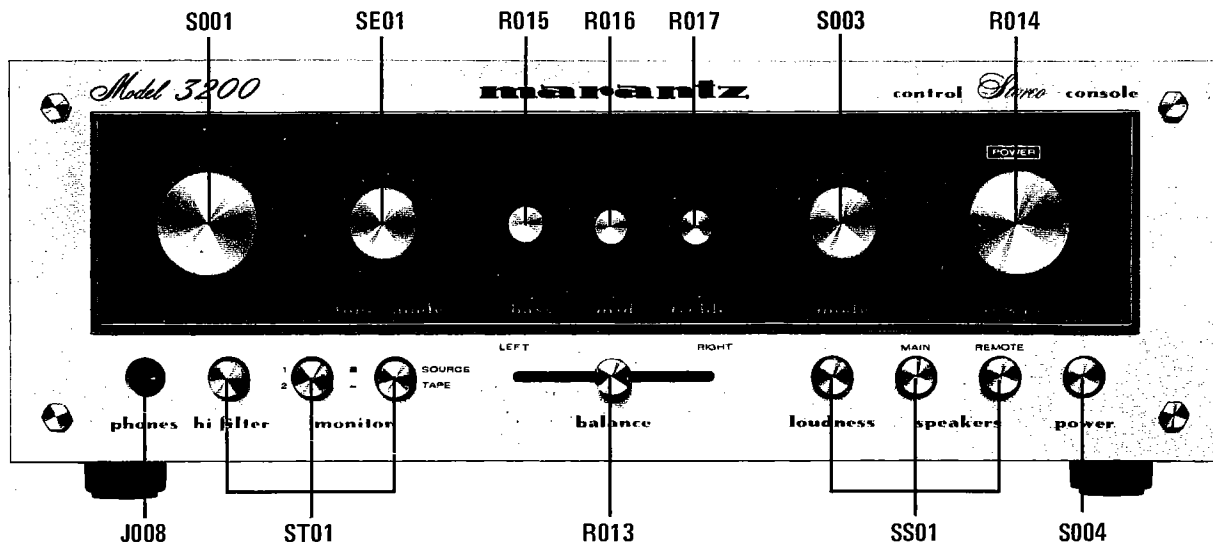


Figure 1. Front Panel Switches and Component Locations

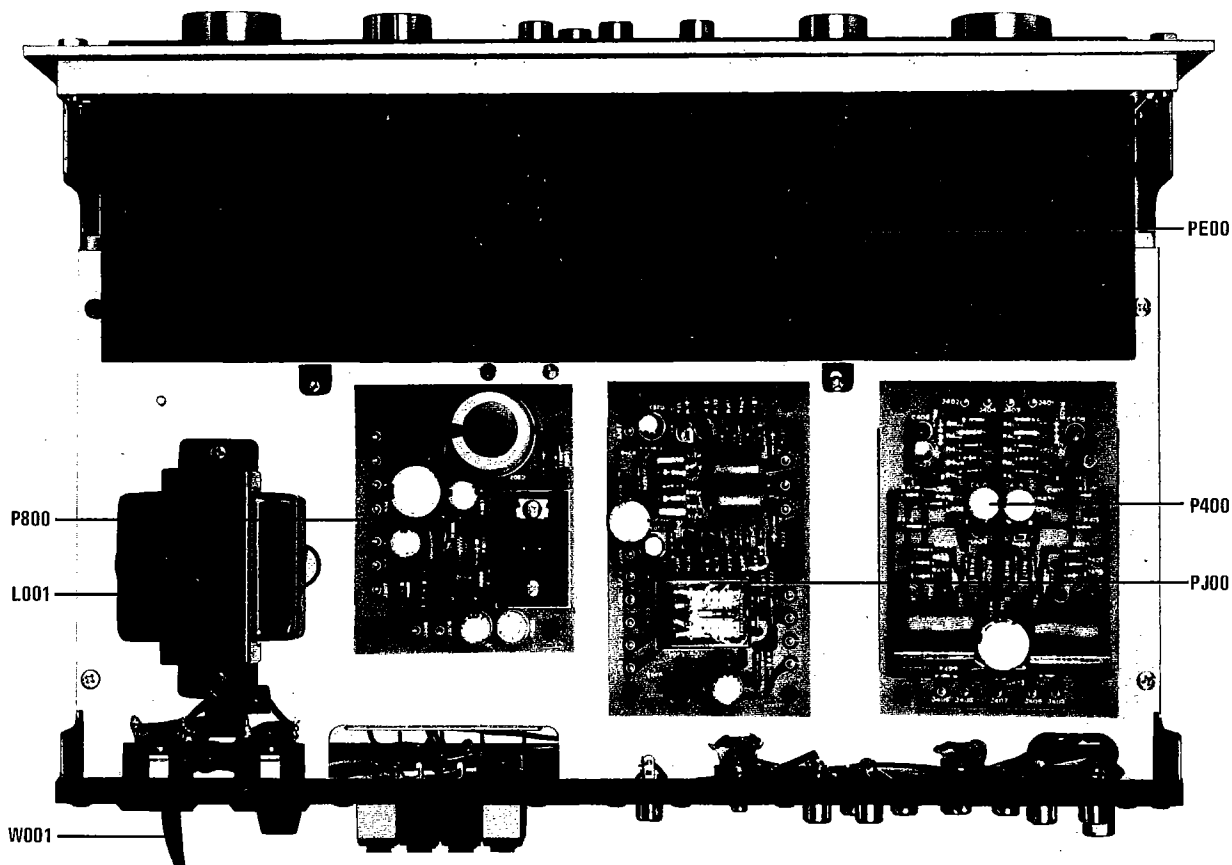


Figure 2. Main Chassis Component Locations (Top View)

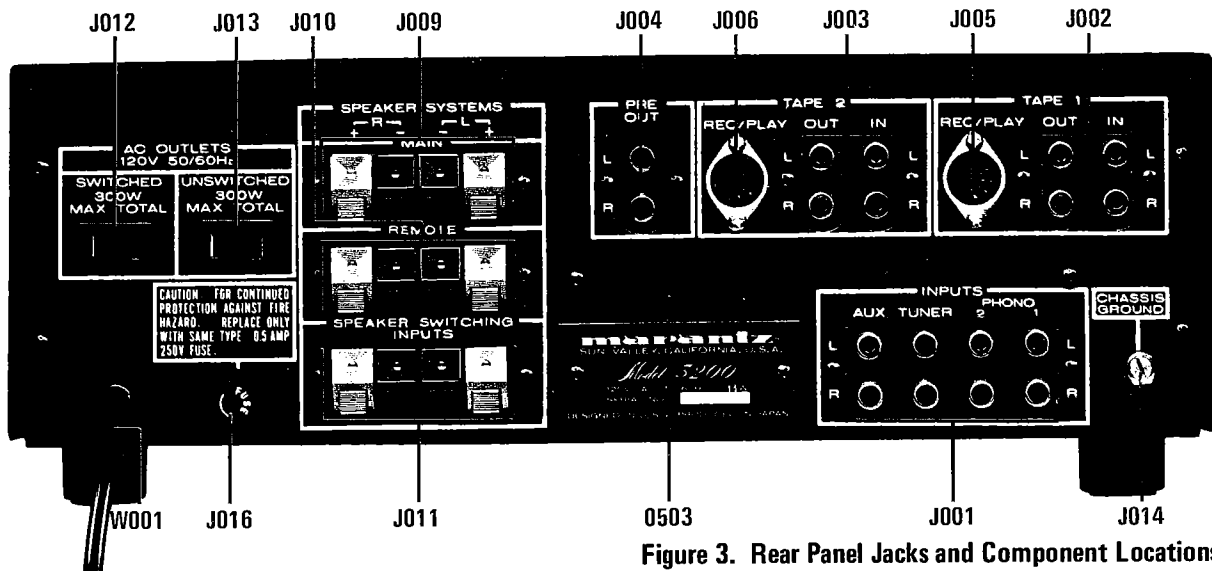


Figure 3. Rear Panel Jacks and Component Locations

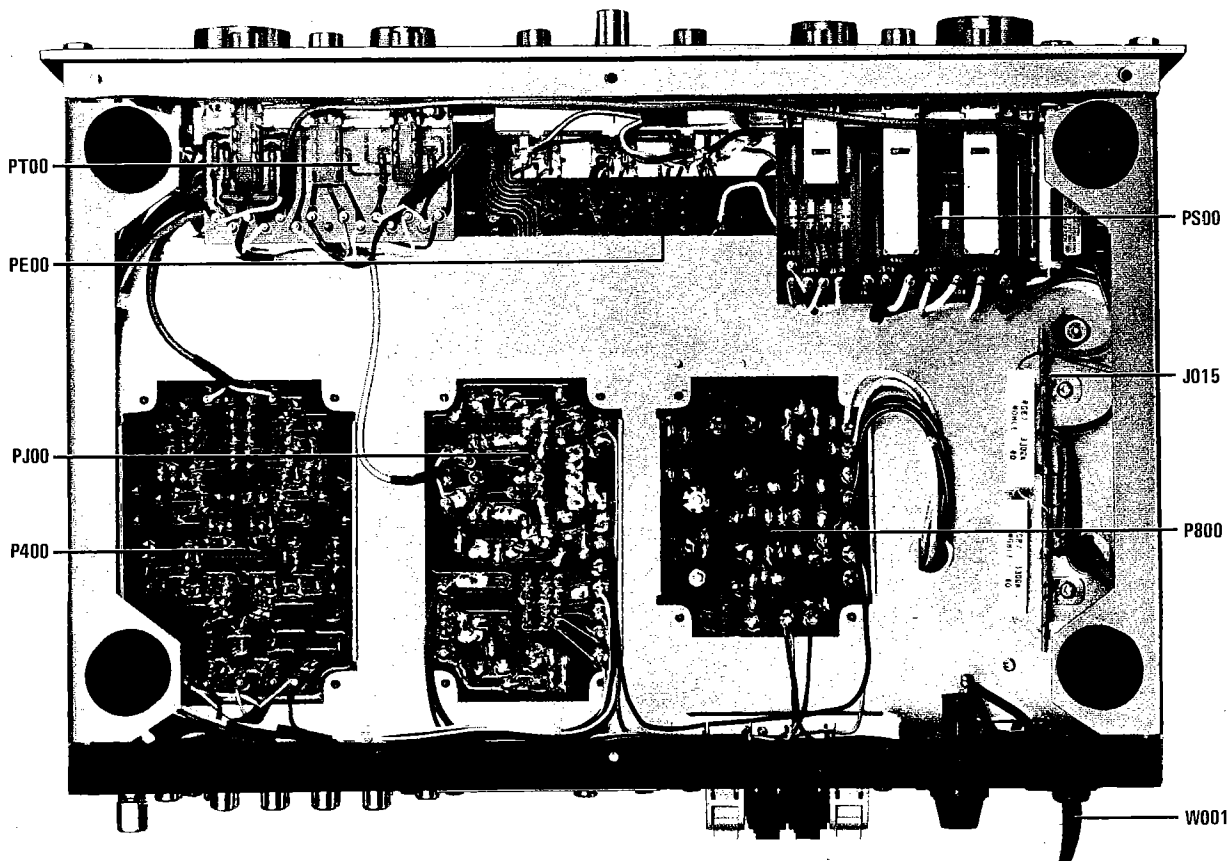


Figure 4. Main Chassis Component Locations (Bottom View)

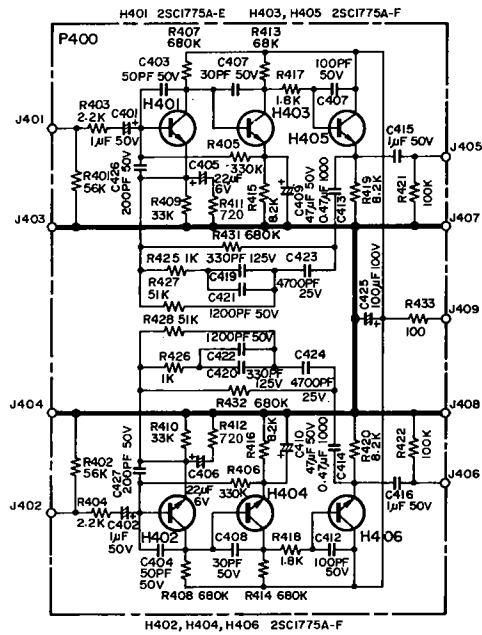


Figure 5. P400-Circuit Diagram

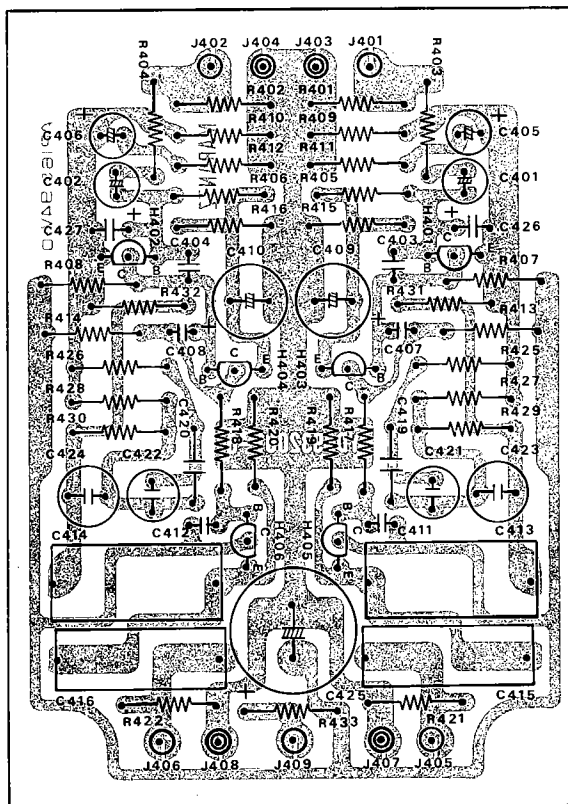


Figure 6. Phono Amp. Assembly P400
Component Locations

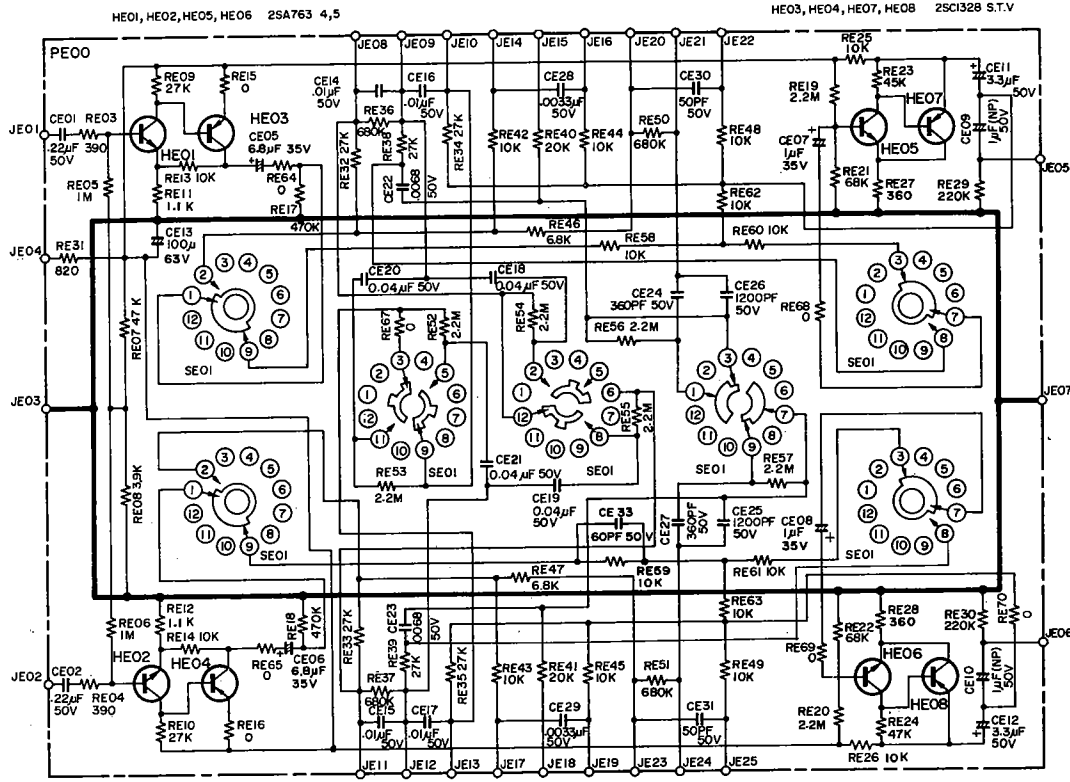


Figure 7. PE00-Circuit Diagram

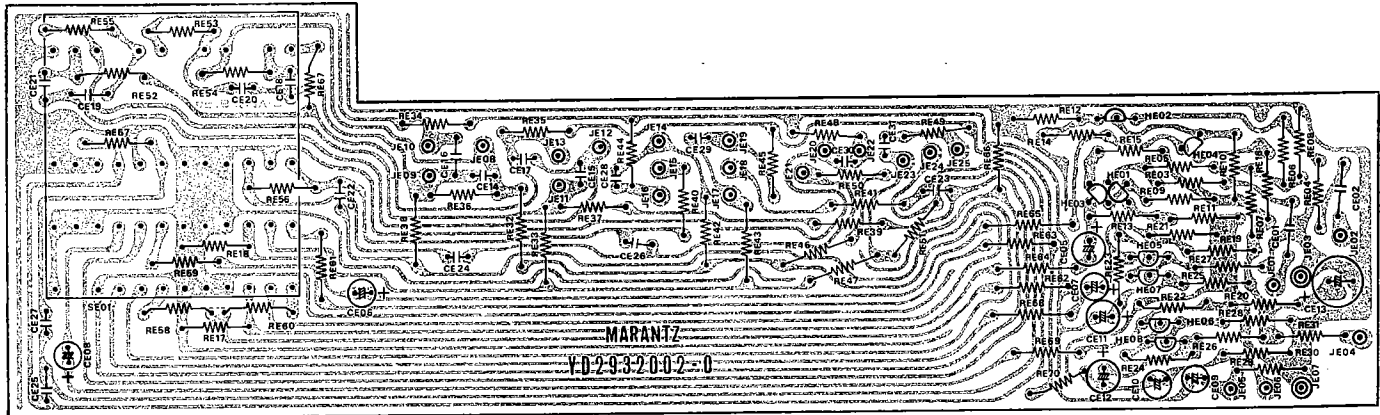


Figure 8. Pre and Tone Amp. Assembly PE00 Component Locations

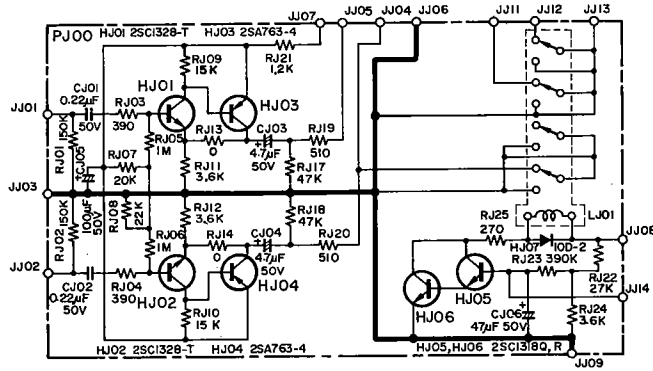


Figure 9. PJ00-Circuit Diagram

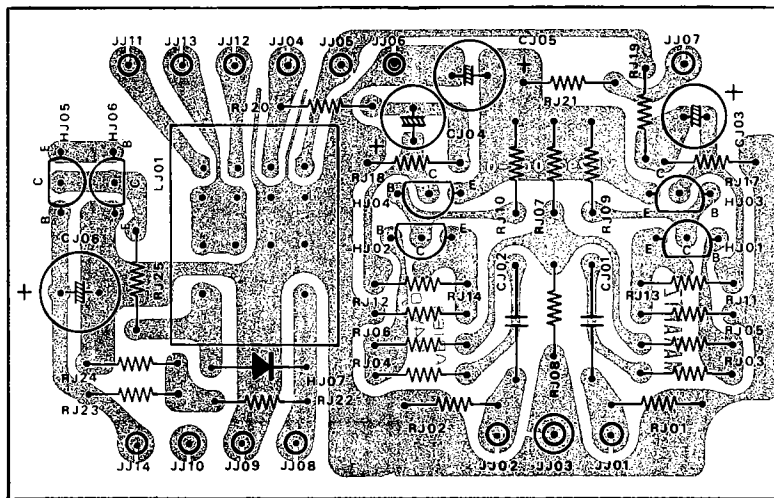


Figure 10. Output Amp. and Relay Circuit Assembly PJ00 Component Locations

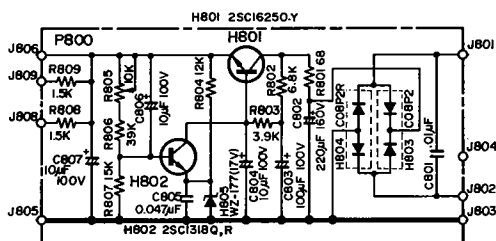


Figure 11. P800-Circuit Diagram

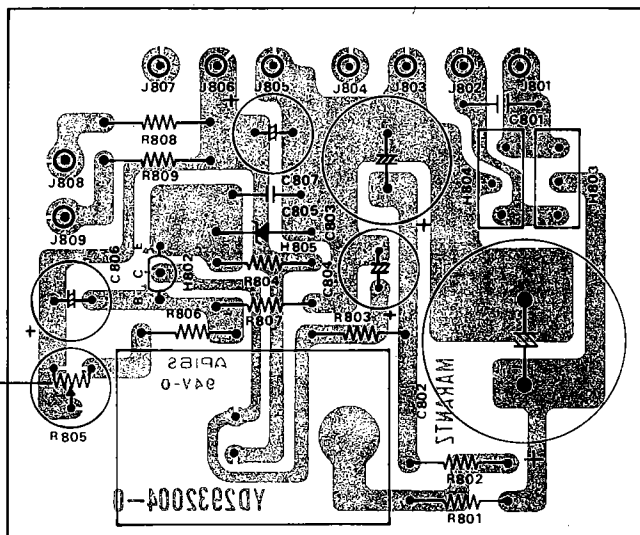


Figure 12. Power Supply Assembly P800 Component Locations

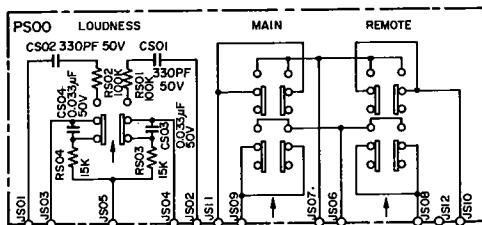


Figure 13. PS00-Circuit Diagram

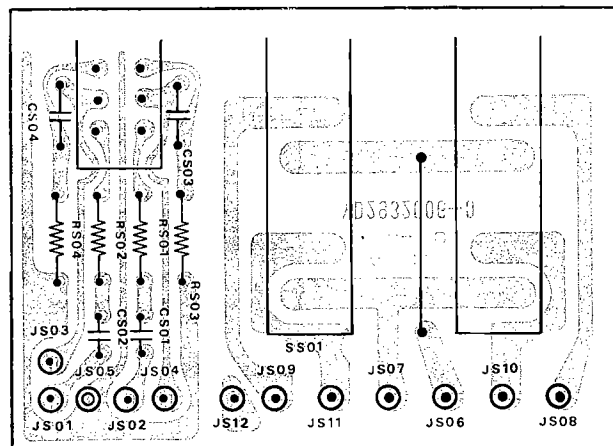


Figure 14. Speaker Switch and Loudness Assembly PS00 Component Locations

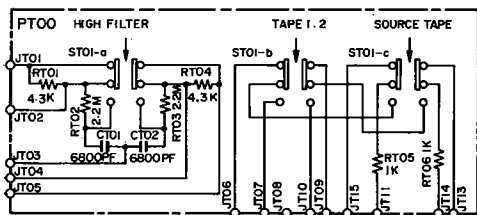


Figure 15. PT00-Circuit Diagram

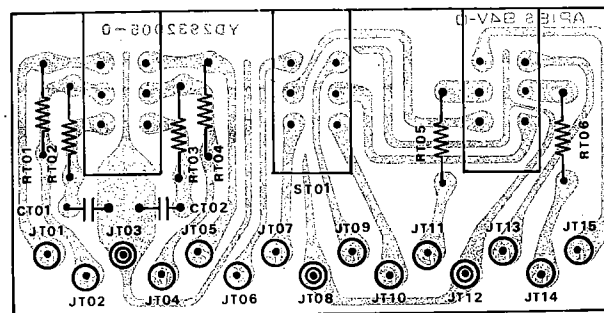


Figure 16. Tape Monitor and High Filter Assembly PT00 Component Locations

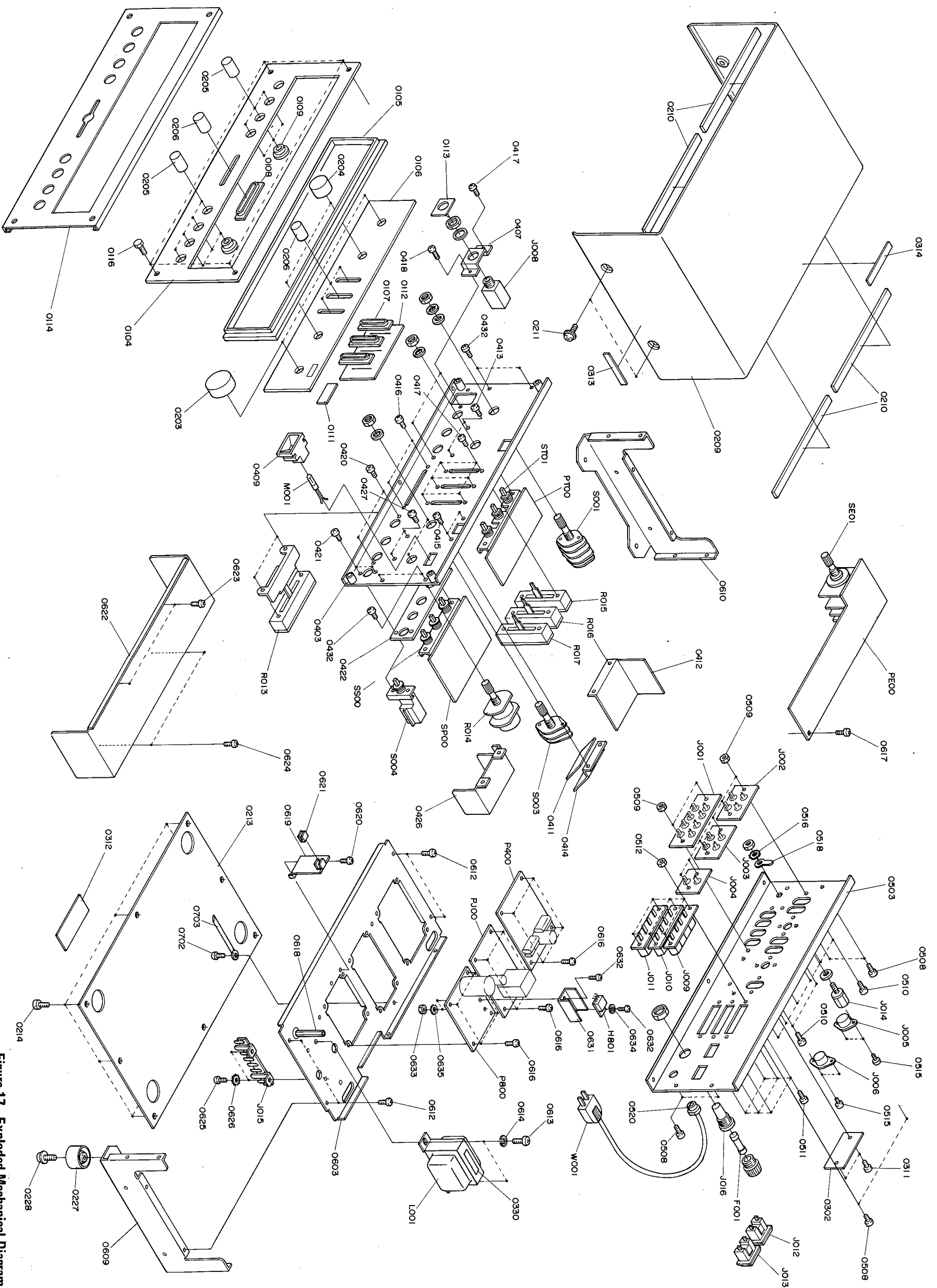


Figure 17. Exploded Mechanical Diagram

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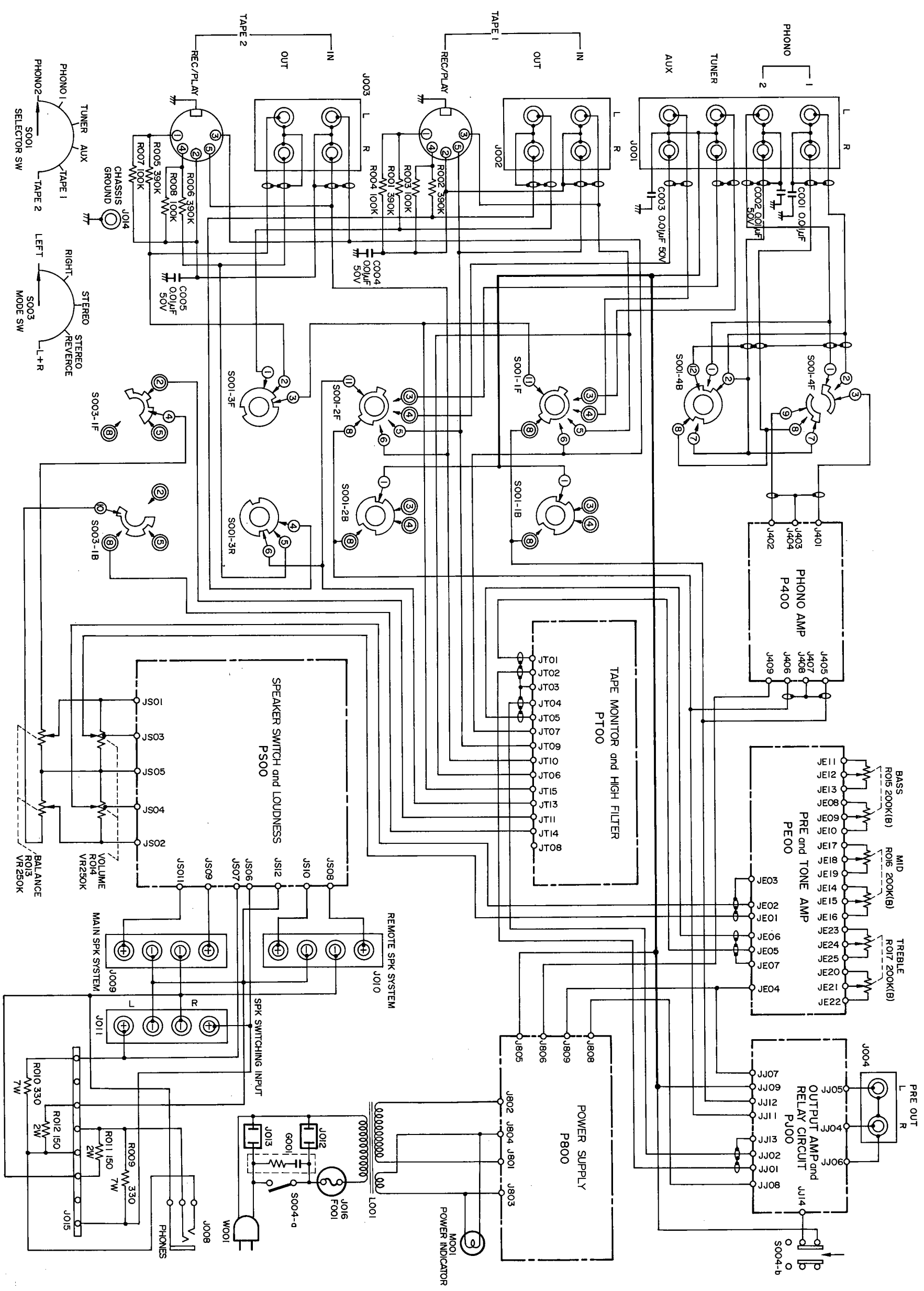


Figure 18. Schematic Diagram for U.S.A. Model

