marantz

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## 1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2252 Stereophonic Receiver.

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

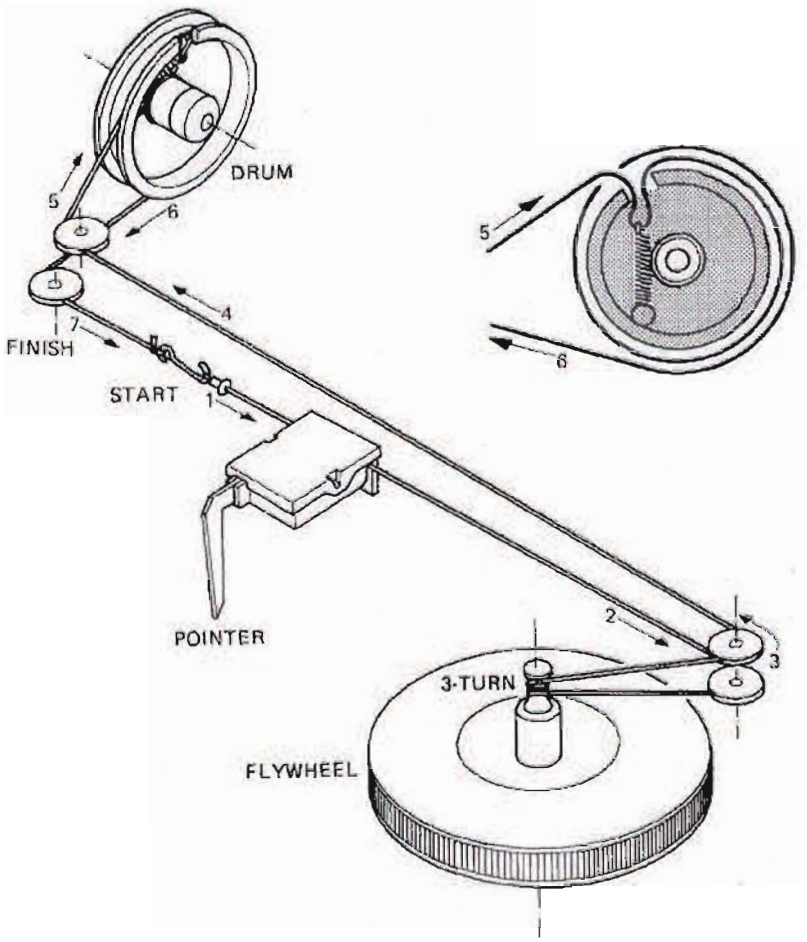
The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

## 2. SERVICE NOTES

As can be seen from the circuit diagram, the chassis of Model 2252 consists of the 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. FM Front End . . . . . mounted on P.W.B. P 100
2. FM and AM Tuner . . . . . mounted on P.W.B. P 200
3. EQ Amplifier . . . . . mounted on P.W.B. P 400
4. Tone Amplifier . . . . . mounted on P.W.B. PE01
5. Dolby FM, Tape Monitor, Mono and High Filter Switch Unit . . . . mounted on P.W.B. PH01
6. Loudness, Muting and Speaker Switch Unit . . . . . mounted on P.W.B. PT01
7. Power Amplifier . . . . . mounted on P.W.B. P 700
8. Power Supply . . . . . mounted on P.W.B. P 800
9. Dial Lamp Unit . . . . . mounted on P.W.B. PZ01

## ● DIAL STRINGING



## 3. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 2252 Receiver.

| Item | Manufacturer and Model No. | Use |
|---|---|---|
| AM Signal Generator | | Signal source for AM alignment |
| Test Loop | | Use with AM Signal Generator |
| FM Signal Generator<br>MPX Signal Generator | Sound Technology Model 1000A | Signal source for FM alignment<br>Stereo separation alignment and trouble shooting |
| Distortion Analyzer | | Distortion measurements |
| Audio Oscillator<br>AC VTVM | Sound Technology Model 1700A | Sinewave and squarewave signal source<br>voltage measurements (AC) |
| Oscilloscope | Tektronix Model T932<br>Philips Model 3232 | Waveform analysis and trouble shooting and ASO alignment |
| Frequency Counter | Fluke Model 1900A | MPX Oscillator adjustment (VCO) |
| 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 |
| Output Load (8 ohms, 0.5%, 100W) | Commercial Grade | Provides 8-ohm load for amplifier output termination |
| Output Load (4 ohms, 0.5% 100W) | Commercial Grade | Provides 4-ohm load for amplifier output termination |

## 4. AM ALIGNMENT PROCEDURE

### 4.1 AM IF ALIGNMENT

1. Connect a sweep generator to the L153 and an alignment scope to the resistor R162 (out side).
2. Rotate each core of IF transformers L155 and L156 for the maximum height and flat top symmetrical response.

### 4.2 AM FREQUENCY RANGE AND TRACKING ALIGNMENT

1. Set AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L154 for maximum audio output.
2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.

3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 600 kHz, tune the receiver to the same frequency and adjust a slug core of AM ferrite rod antenna for maximum output.
5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust the trimming capacitor on the antenna tuning capacitor for maximum output.
6. Repeat procedures 4 and 5 until no further adjustment is necessary.

**NOTE**

During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

## 5. FM ALIGNMENT PROCEDURE

1. Connect an FM signal generator to the FM antenna terminals and an oscilloscope and an audio distortion analyzer to the tape output jack on the rear panel.
2. Set the FM SG to 87.4 MHz and provide about 3 to 5μV. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the pitch of oscillator coil L107 to obtain maximum audio output.
3. Set the FM SG to 109 MHz and provide about 3 to 5μV. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C121 for maximum output.
4. Repeat steps 2 and 3 until no further adjustment is necessary.
5. Set the FM SG to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the pitch of ANTENNA coil L102 and RF coil L104 for maximum output.
6. Set the FM SG to 106 MHz and tune the receiver to the same frequency. Decrease the signal generator output until the audio output level decreases with the decreasing generator output. Adjust the trimming capacitors of ANTENNA and RF tuning circuits for maximum output.
7. Repeat steps 5 and 6 until no further adjustment is necessary.
8. Adjust the primary core (lower core) of discriminator transformer L202 so that the center tuning meter pointer indicates its center at no signal applied. Set the FM SG to 98 MHz and increase its output level 1 KμVand tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Adjust the secondary core (upper core) of L202 for minimum distortion.

## 6. STEREO SEPARATION ALIGNMENT

1. Set the FM SG to provide 1 KμV at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Then turn off the modulation of the FM SG, connect a frequency counter to test point J229 and adjust R301 so that the frequency counter may precisely read 76 kHz.
2. Modulate the FM SG with stereo composite signal consisting of only L or R channel (of course a pilot signal must be included).
3. Adjust the trimming resistor R317 for maximum and same separation in both channels.

## 7. MUTING THRESHOLD ADJUSTMENT

Set the FM SG output to provide 12.5μV(IHF) at 98 MHz and tune receiver to the same frequency. Adjust the trimming resistor R212 for the threshold level of 12.5μV. (During this adjustment turn the MUTING pushswitch "on".)

## 8. FM DOLBY LEVEL ADJUSTMENT

1. Set the FM SG to provide a 400 Hz, 50% modulated 98 MHz mono signal, at 1 KμV output. Precisely tune the receiver to 98 MHz.
2. Depress the FM DOLBY pushswitch, and adjust R215 until the outputs of both channels are 580mV.

## 9. POWER AMPLIFIER ADJUSTMENT

Connect a VTVM between J726(+) and J723(—) and adjust the trimming resistor R731 until the VTVM reads 8mV DC. And next, connect a VTVM between J723 and J709 (GROUND) and adjust the trimming resistor R711 until the VTVM reads 0 mV DC. Do over again. For the other channel, connect the VTVM between J727(+) and J722(—) and adjust the R732 for the same reading, and connect the VTVM between J722 and J709 and adjust the R712 for the same reading. Do over again.

## 10. POWER SUPPLY ADJUSTMENT

Connect a VTVM between J805(+) and J814(—) and adjust R808 until the VTVM reads 35.0 V under no signal condition.

● **EUROPEAN MODEL ONLY**

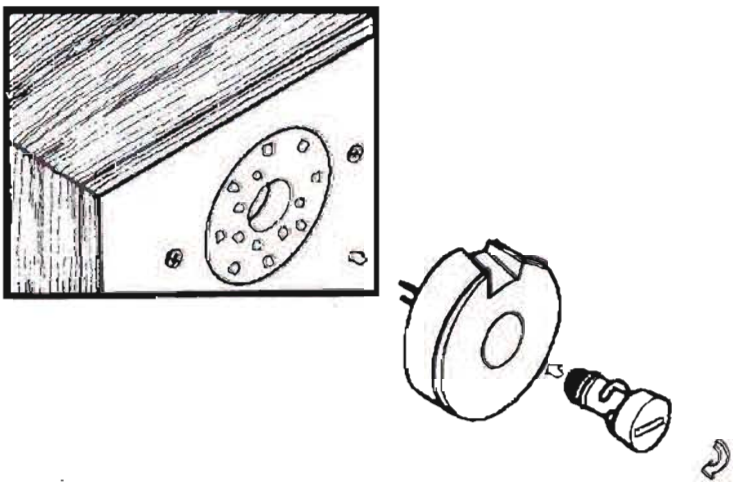
## 11. VOLTAGE CONVERSION

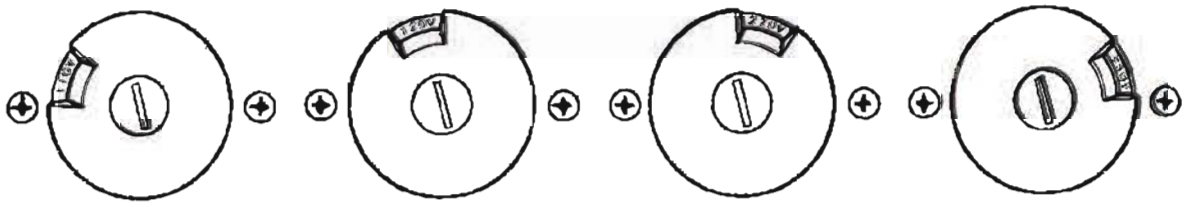
This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.
To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

**CAUTION**

DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

### 11.1 VOLTAGE CONVERSION CHART





For 110V Operation | For 120V Operation | For 220V Operation | For 240V Operation

## 12. FTZ REGULATION

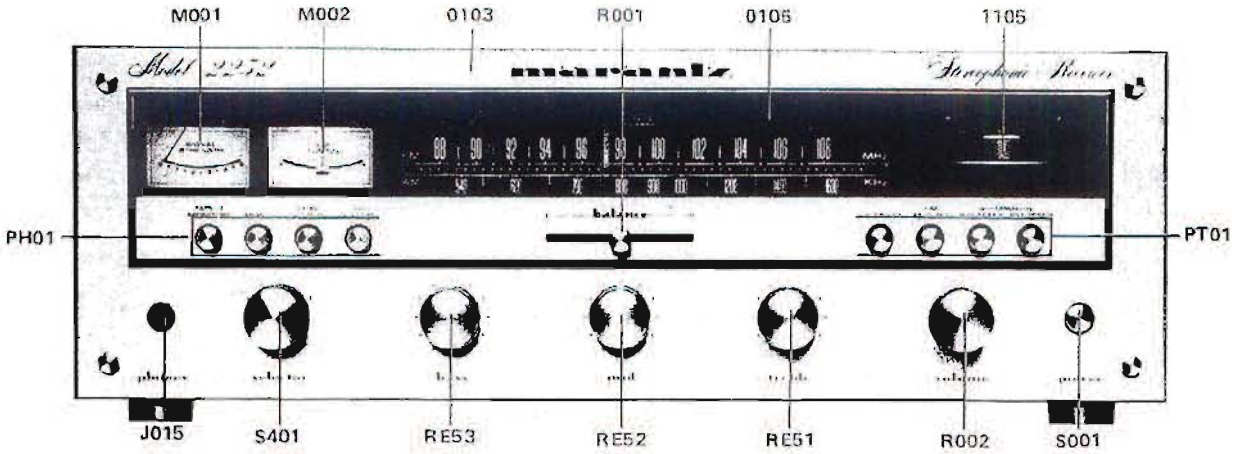
Instruction for the use in the range other than specified in FTZ codes.

**Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.**

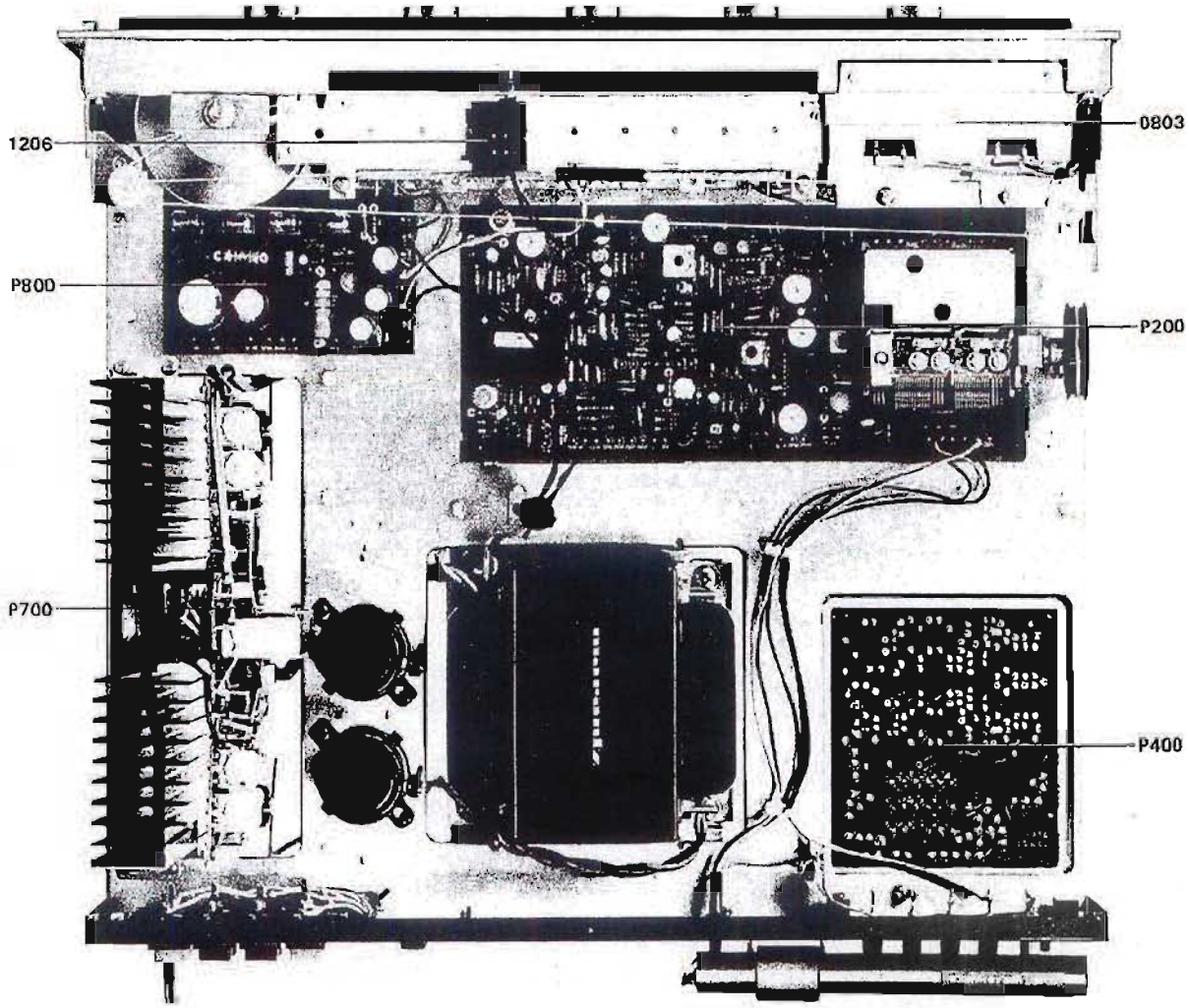
Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

## 13. MAJOR COMPONENT LOCATIONS

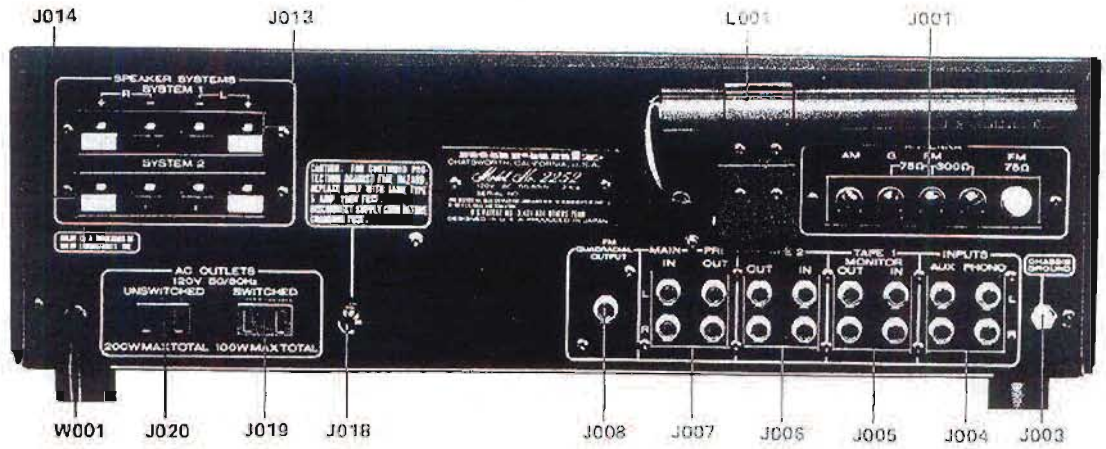
### 13. 1 FRONT PANEL ADJUSTMENT AND COMPONENT LOCATIONS



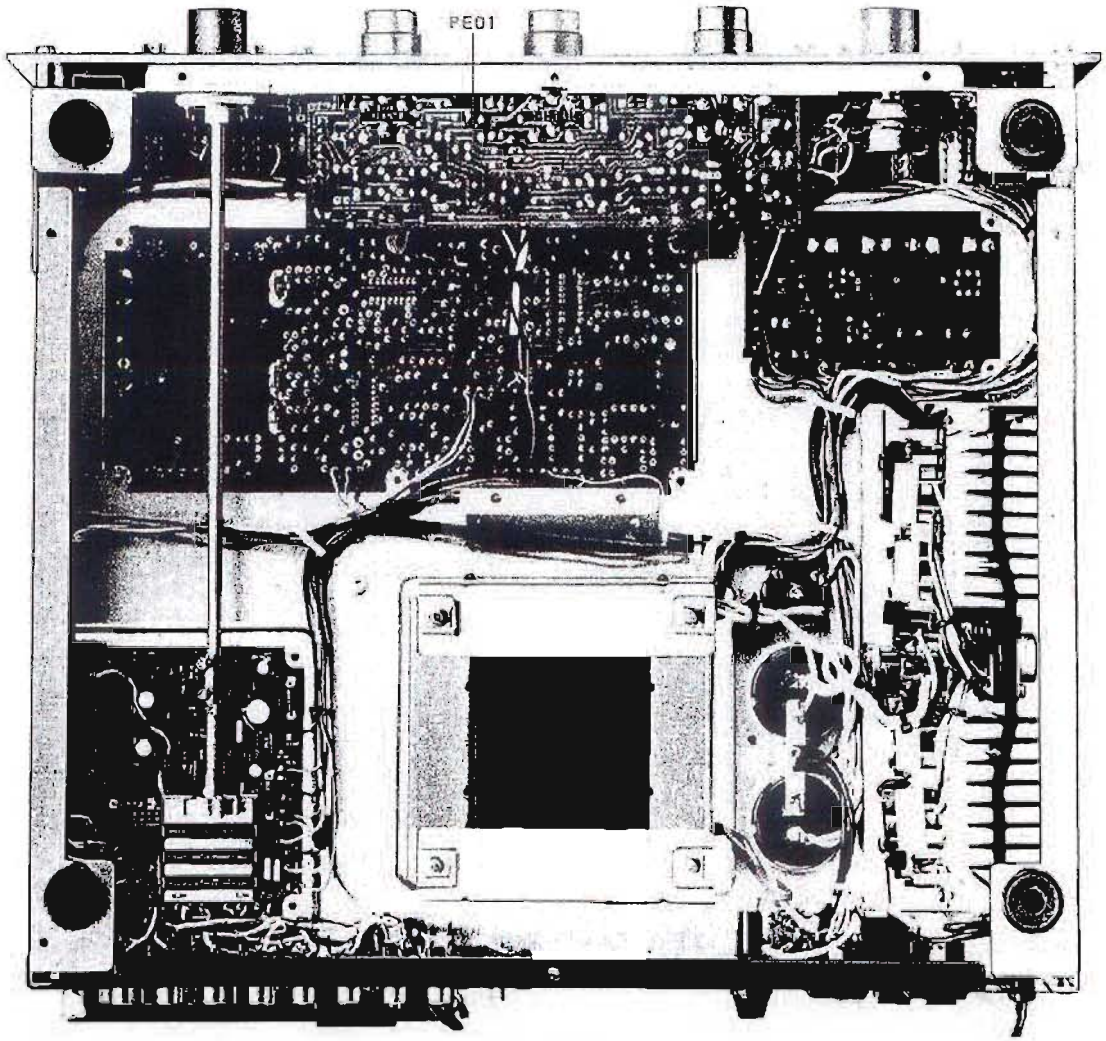

### 13. 2 MAIN CHASSIS COMPONENT LOCATIONS (TOP VIEW)



## 13. 3 REAR PANEL ADJUSTMENT AND COMPONENT LOCATIONS

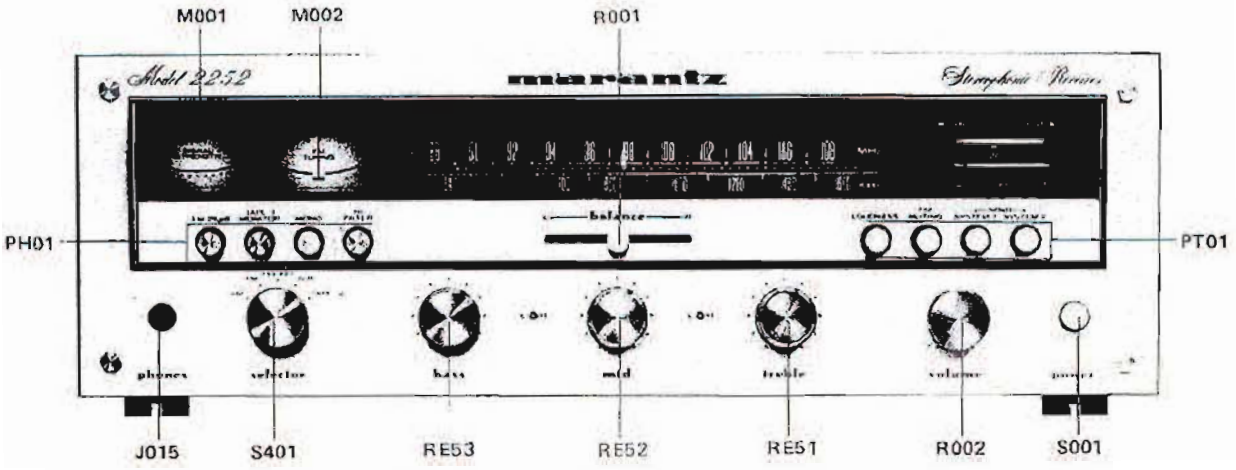



## 13. 4 MAIN CHASSIS COMPONENT LOCATIONS(BOTTOM VIEW)

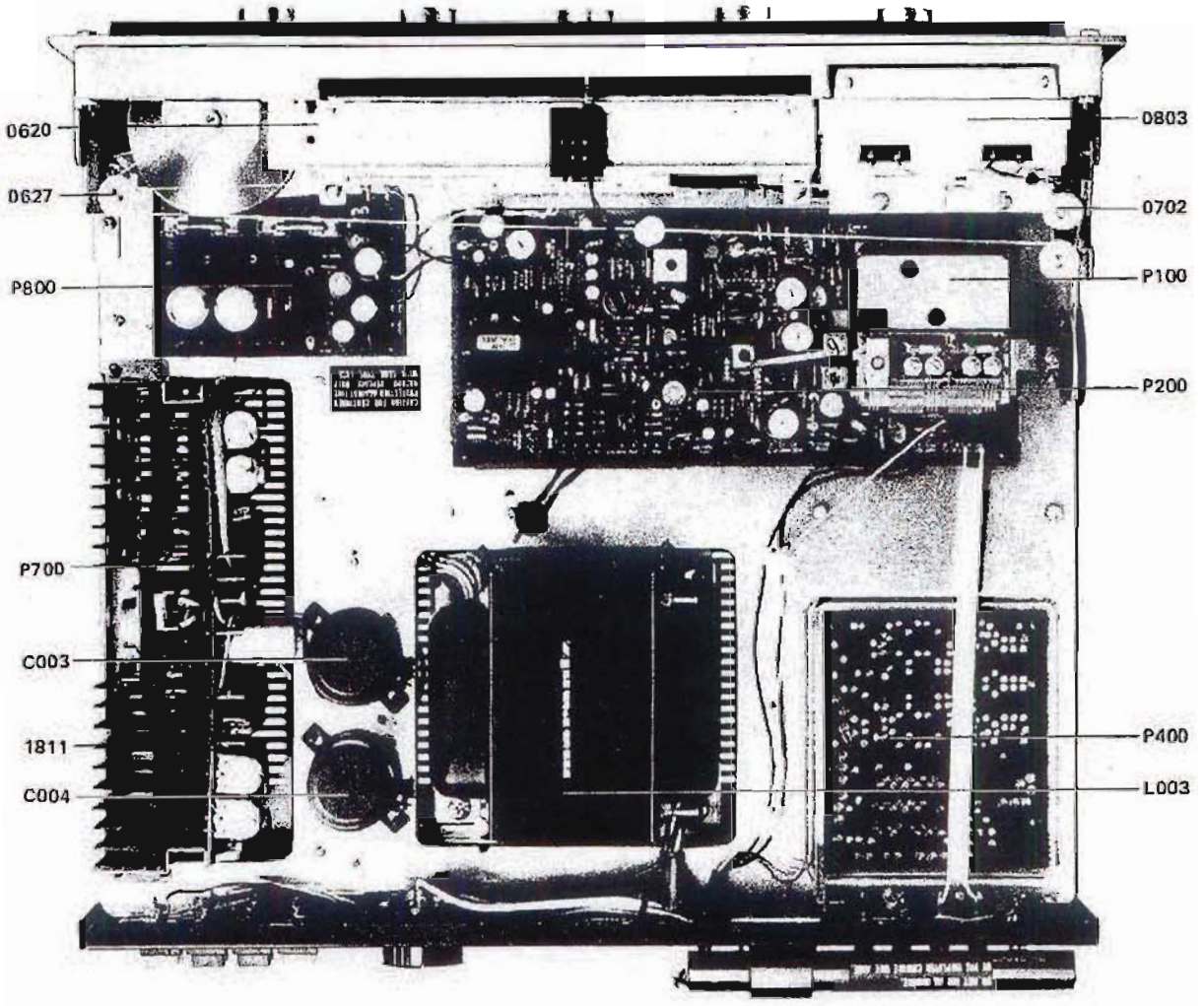


● **EUROPEAN MODEL**

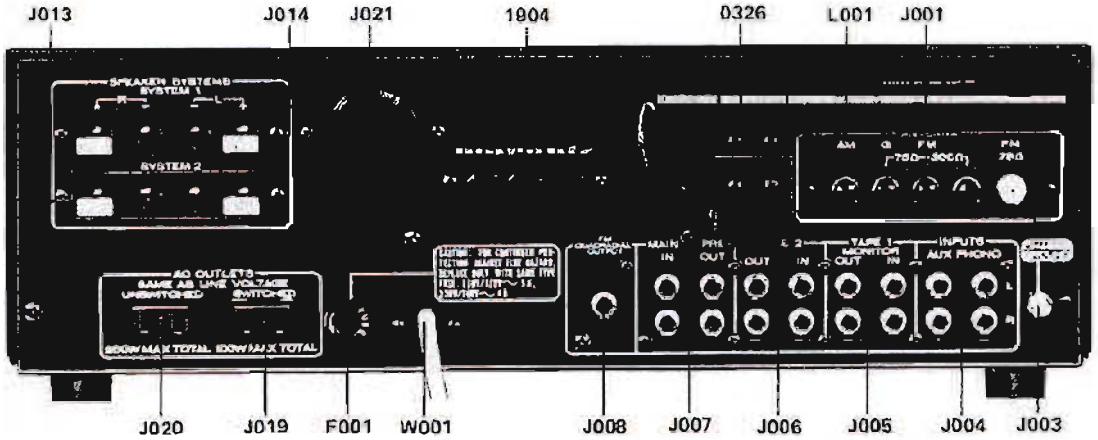
## 13. 5 FRONT PANEL ADJUSTMENT AND COMPONENT LOCATIONS




## 13. 6 MAIN CHASSIS COMPONENT LOCATIONS(TOP VIEW)

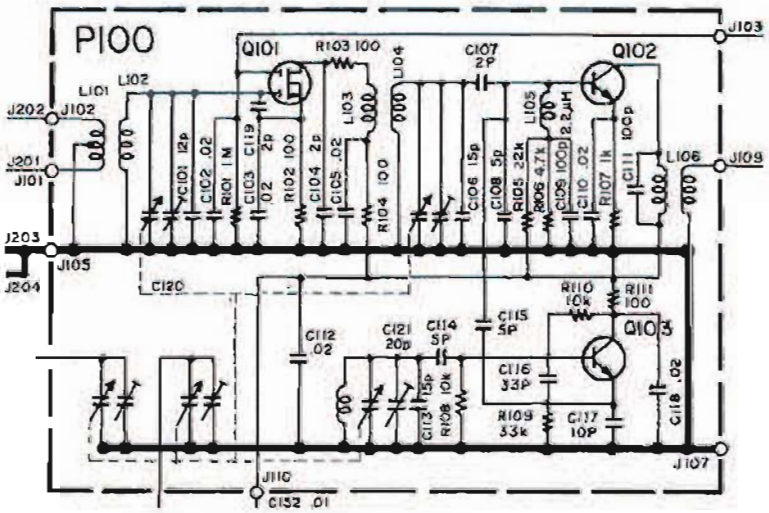


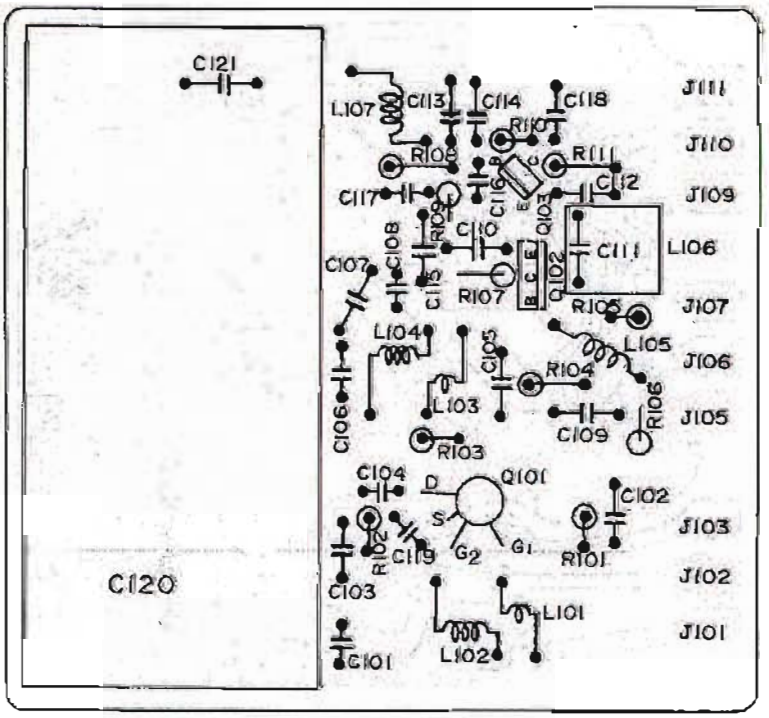
## 13. 7 REAR PANEL ADJUSTMENT AND COMPONENT LOCATIONS



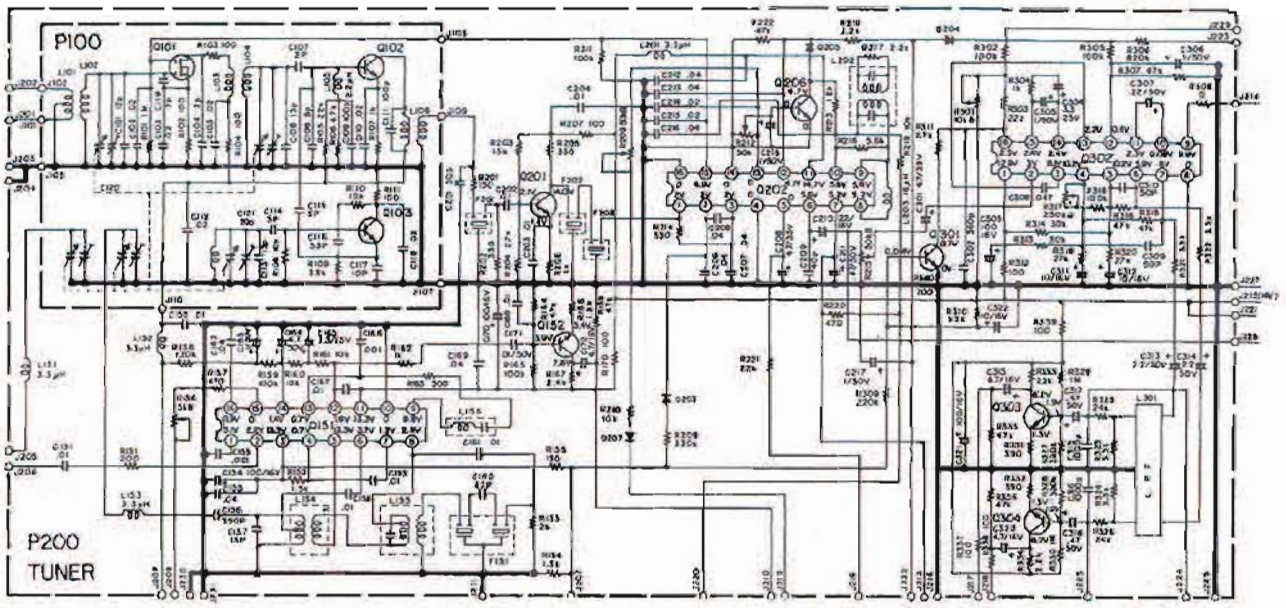
## 14. DIAGRAM AND COMPONENT LOCATIONS

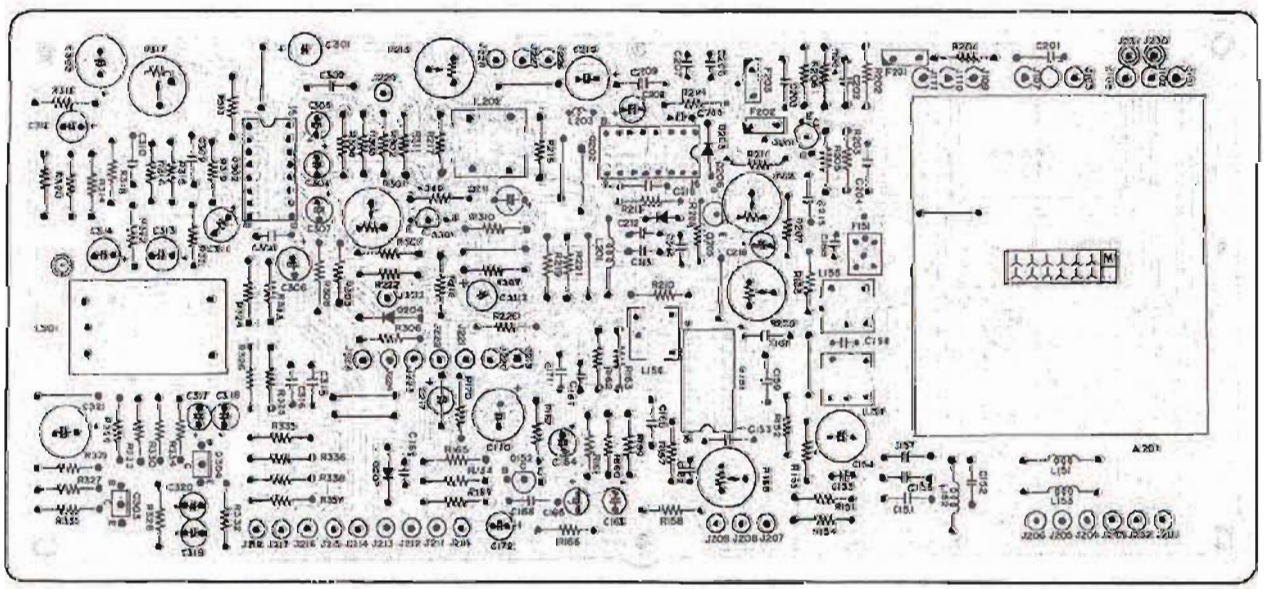
### 14. 1 FM FRONT END ASSEMBLY(P100) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



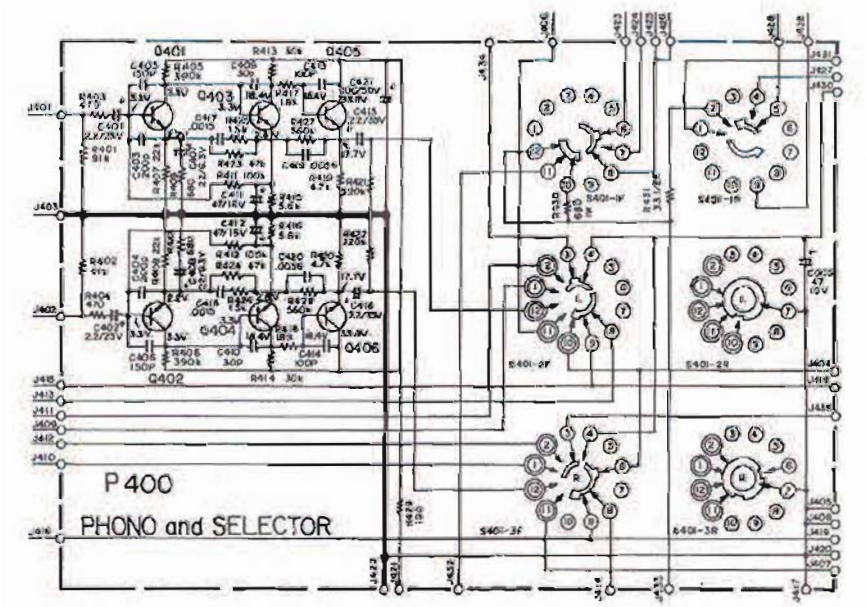



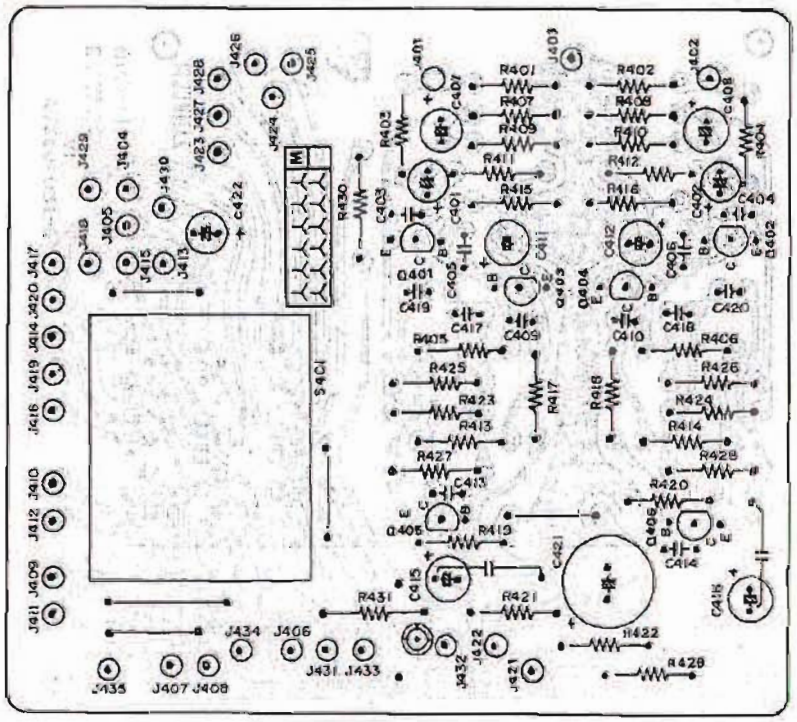
## 14. 2 TUNER ASSEMBLY(P200) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



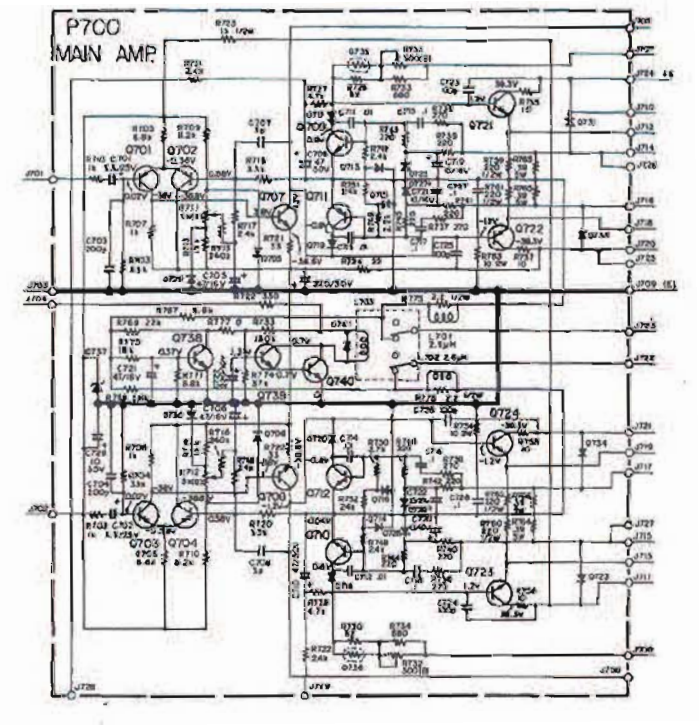



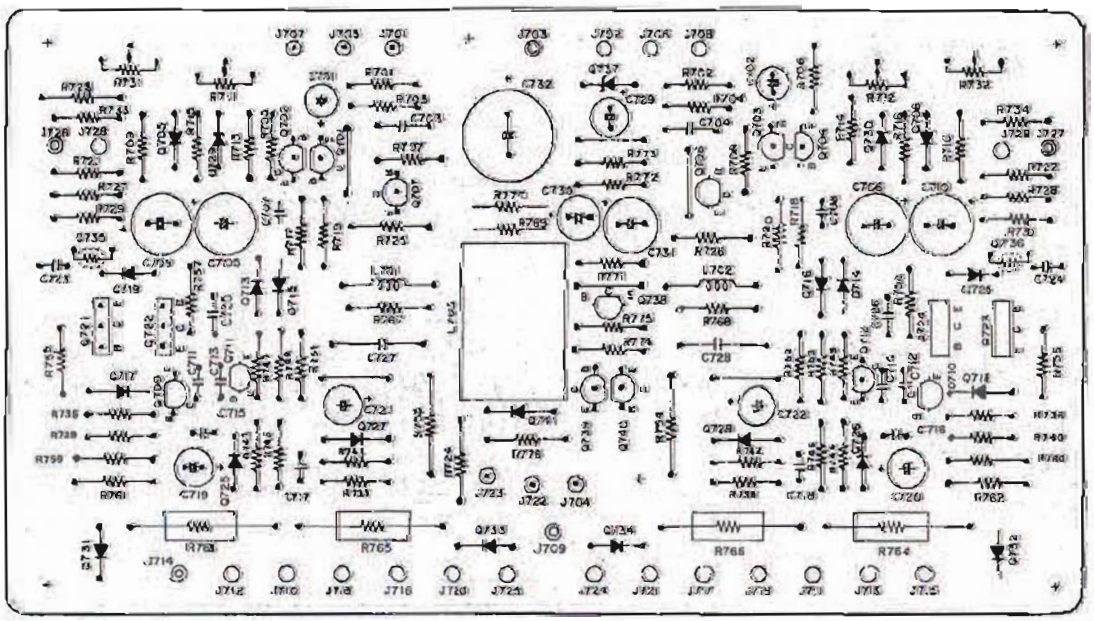
## 14. 3 EQL AMP. ASSEMBLY(P400) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



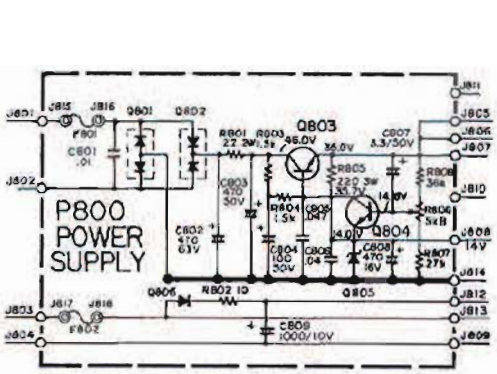



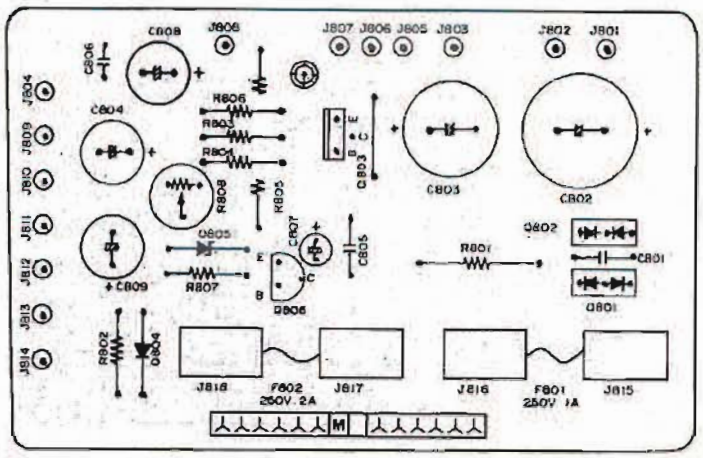
## 14. 4 MAIN AMP. ASSEMBLY(P700) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



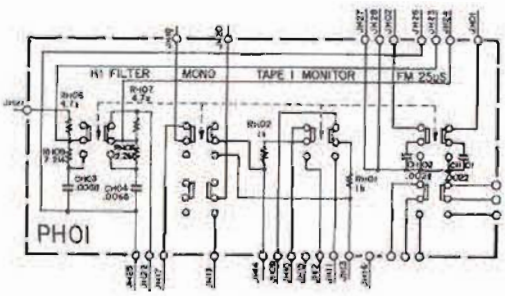



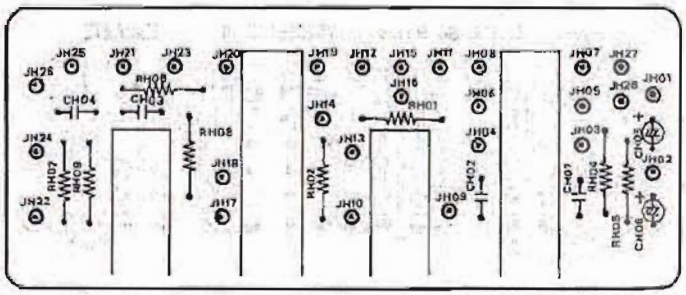
## 14. 5 POWER SUPPLY ASSEMBLY(P800) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



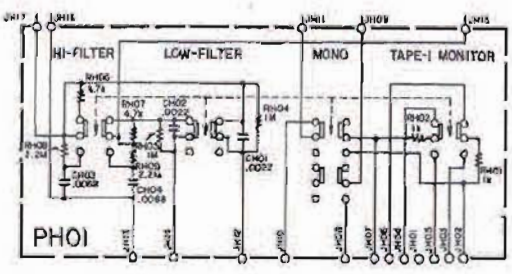



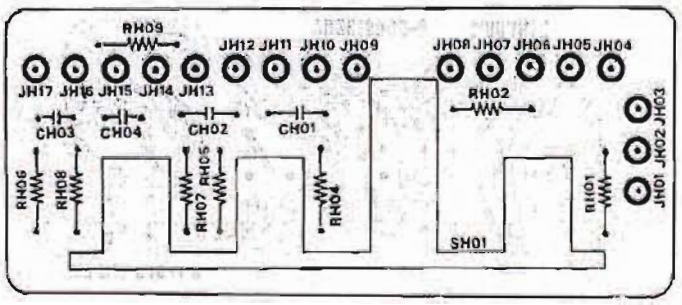

## 14. 6 FILTER DOLBY ASSEMBLY(PH01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS • for U.S.A., Canada



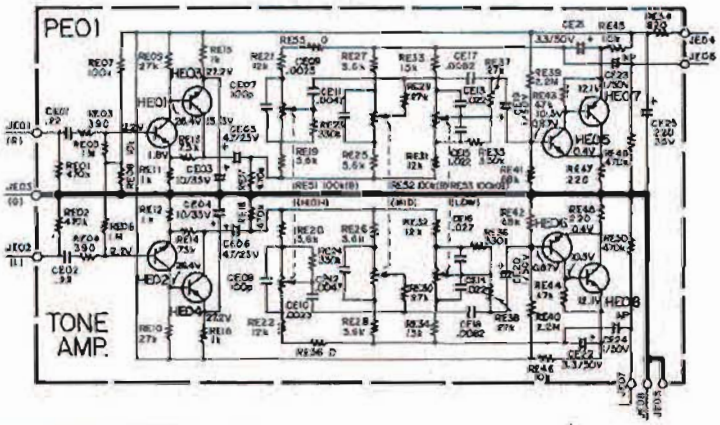



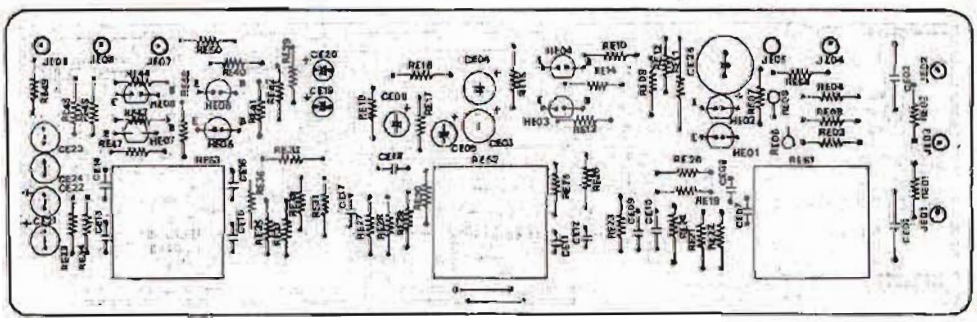

## 14. 7 LOW·HI FILTER ASSEMBLY(PH01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS • for Europe



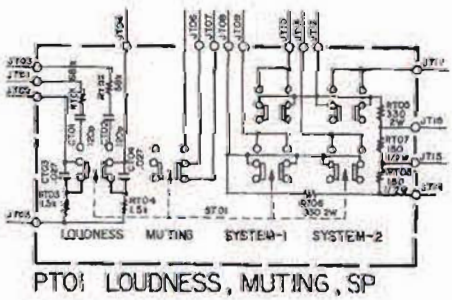



## 14.8 PRE-TONE AMP. ASSEMBLY (PE01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

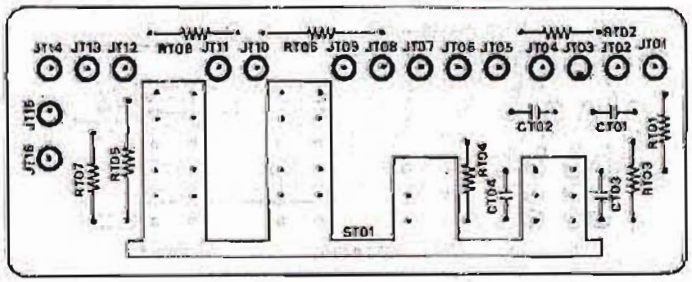


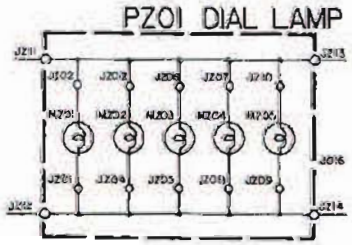
## 14. 9 MAIN REMOTE ASSEMBLY(PT01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

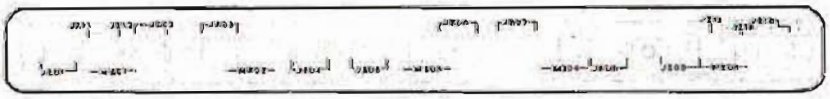



PT01 LOUDNESS, MUTING, SP

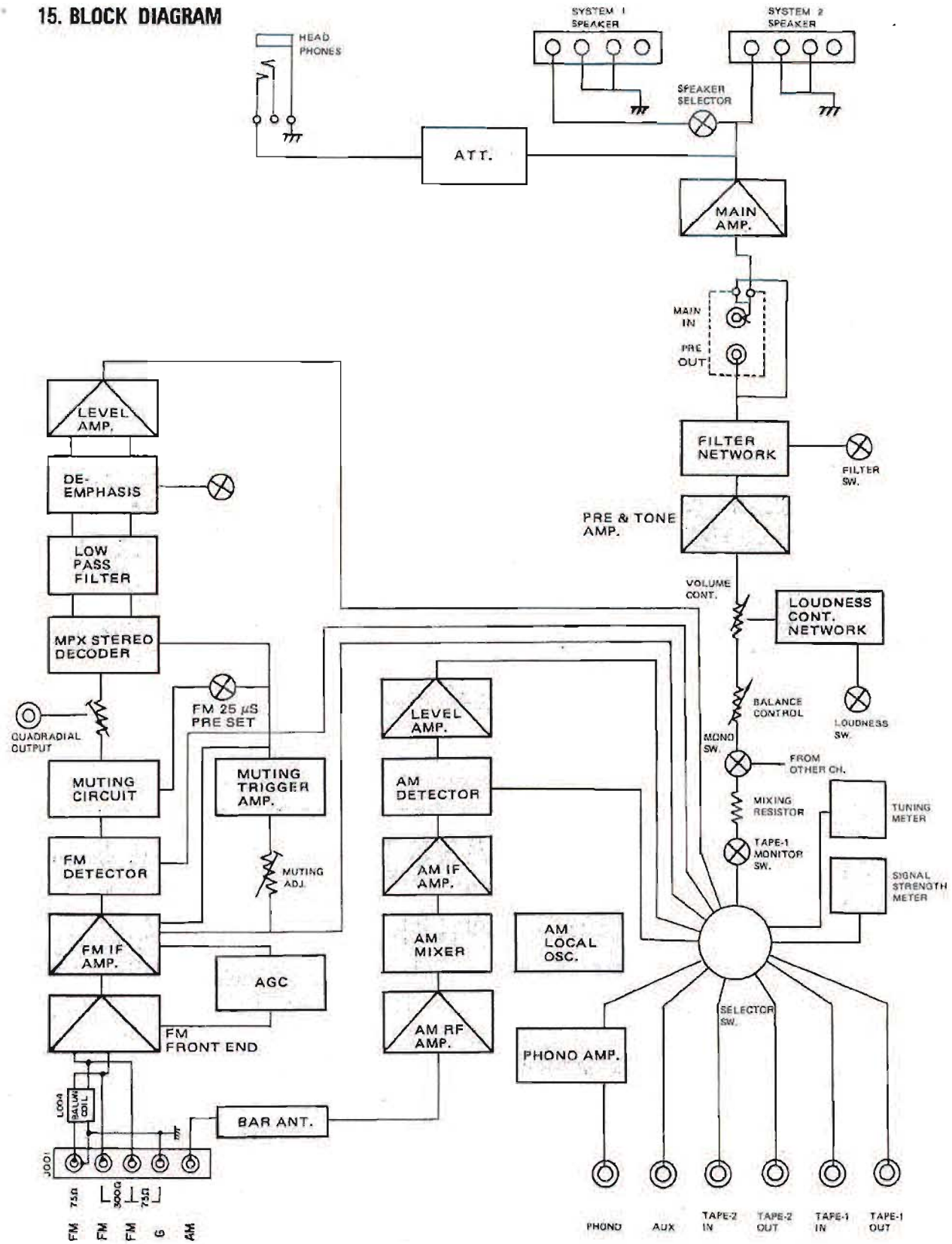



## 14. 10 DIAL LAMP ASSEMBLY(PZ01) SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS



## 15. BLOCK DIAGRAM



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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| | | | | | **P100 FM FRONT END BOARD** |
| P100 | 1 | 1 | 1 | YD29910010 | P.W. Board |
| | 1 | 1 | 1 | AV01202060 | P.W. Board Assembly |
| R101 | 1 | 1 | 1 | GD05105140 | Resistor, 1MΩ ±5% ¼W |
| R102 | 1 | 1 | 1 | GD05101140 | Resistor, 100Ω ±5% ¼W |
| R103 | 1 | 1 | 1 | GD05101140 | Resistor, 100Ω ±5% ¼W |
| R104 | 1 | 1 | 1 | GD05101140 | Resistor, 100Ω ±5% ¼W |
| R105 | 1 | 1 | 1 | GD05223140 | Resistor, 22kΩ ±5% ¼W |
| R106 | 1 | 1 | 1 | GD05472140 | Resistor, 4.7kΩ ±5% ¼W |
| R107 | 1 | 1 | 1 | GD05102140 | Resistor, 1kΩ ±5% ¼W |
| R108 | 1 | 1 | 1 | GD05103140 | Resistor, 10kΩ ±5% ¼W |
| R109 | 1 | 1 | 1 | GD05333140 | Resistor, 33kΩ ±5% ¼W |
| R110 | 1 | 1 | 1 | GD05103140 | Resistor, 10kΩ ±5% ¼W |
| R111 | 1 | 1 | 1 | GD05101140 | Resistor, 100Ω ±5% ¼W |
| C101 | 1 | 1 | 1 | DD16120020 | Ceramic Cap., 12pF ±10% |
| C102 | 1 | 1 | 1 | DK18203030 | Ceramic Cap., 0.02μF $^{+80}_{-20}$% |
| C103 | 1 | 1 | 1 | DK18203030 | Ceramic Cap., 0.02μF $^{+80}_{-20}$% |
| C104 | 1 | 1 | 1 | DD11020010 | Ceramic Cap., 2pF ±0.5pF |
| C105 | 1 | 1 | 1 | DK18203030 | Ceramic Cap., 0.02pF $^{+80}_{-20}$% |
| C106 | 1 | 1 | 1 | DD16150040 | Ceramic Cap., 15pF ±10% |
| C107 | 1 | 1 | 1 | DD11020010 | Ceramic Cap., 2pF ±0.5pF |
| C108 | 1 | 1 | 1 | DD12050010 | Ceramic Cap., 5pF ±1pF |
| C109 | 1 | 1 | 1 | DD16101010 | Ceramic Cap., 100pF ±10% |
| C110 | 1 | 1 | 1 | DK18203030 | Ceramic Cap., 0.02μF $^{+80}_{-20}$% |
| C111 | 1 | 1 | 1 | DD16101010 | Ceramic Cap., 100pF ±10% |
| C112 | 1 | 1 | 1 | DK18203030 | Ceramic Cap., 0.02μF $^{+80}_{-20}$% |
| C113 | 1 | 1 | 1 | DD15150020 | Ceramic Cap., 15pF ±5% |
| C114 | 1 | 1 | 1 | DD10050030 | Ceramic Cap., 5pF ±0.25pF |
| C115 | 1 | 1 | 1 | DD12050010 | Ceramic Cap., 5pF ±1pF |
| C116 | 1 | 1 | 1 | DD16330020 | Ceramic Cap., 33pF ±10% |
| C117 | 1 | 1 | 1 | DD12100060 | Ceramic Cap., 10pF ±1pF |
| C118 | 1 | 1 | 1 | DK18203030 | Ceramic Cap., 0.02μF $^{+80}_{-20}$% |
| C119 | 1 | 1 | 1 | DD11020010 | Ceramic Cap., 2pF ±0.5pF |
| C120 | 1 | 1 | 1 | CA32400080 | Variable Cap. |
| C121 | 1 | 1 | 1 | CT14200010 | Trimming Cap. |
| L101 | 1 | 1 | 1 | LL24700050 | Ant. Coil |
| L102 | 1 | 1 | 1 | LK12700040 | Ant. Coil |
| L103 | 1 | 1 | 1 | LL22700020 | RF Coil |
| L104 | 1 | 1 | 1 | LK11700040 | RF Coil |
| L105 | 1 | 1 | 1 | LC12220010 | Choke Coil, 2.2μH |
| L106 | 1 | 1 | 1 | LI10239010 | IFT |
| L107 | 1 | 1 | 1 | LK12500040 | Osc. Coil |
| Q101 | 1 | 1 | 1 | HF400451B0 | FET, 3SK458 |
| Q102 | 1 | 1 | 1 | HT305352B0 | Transistor, 2SC535 |
| Q103 | 1 | 1 | 1 | HT313422B0 | Transistor, 2SC1342 |
| 2121 | 1 | 1 | 1 | 2991109010 | Shield |
| 2122 | 1 | 1 | 1 | 2991053110 | Cover |
| J101 | 1 | 1 | 1 | YP10001510 | Plug |
| J102 | 1 | 1 | 1 | YP10001510 | Plug |
| J103 | 1 | 1 | 1 | YP10001510 | Plug |
| J105 | 1 | 1 | 1 | YP10001510 | Plug |
| J107 | 1 | 1 | 1 | YP10001510 | Plug |
| J109 | 1 | 1 | 1 | YP10001510 | Plug |
| J110 | 1 | 1 | 1 | YP10001510 | Plug |
| R151 | 1 | 1 | 1 | RT05201140 | Resistor, 200Ω ±5% ¼W |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R152 | 1 | 1 | 1 | RT05152140 | Resistor, 1.5kΩ ±5% ¼W |
| R153 | 1 | 1 | 1 | RT05202140 | Resistor, 2kΩ ±5% ¼W |
| R154 | 1 | 1 | 1 | RT05152140 | Resistor, 1.5kΩ ±5% ¼W |
| R155 | 1 | 1 | 1 | RT05151140 | Resistor, 150Ω ±5% ¼W |
| R156 | 1 | 1 | 1 | RA05020200 | Trimming Resistor, 5kΩ (B) |
| R157 | 1 | 1 | 1 | RT05471140 | Resistor, 470Ω ±5% ¼W |
| R158 | 1 | 1 | 1 | RT05124140 | Resistor, 120kΩ ±5% ¼W |
| R159 | 1 | 1 | 1 | RT05104140 | Resistor, 100kΩ ±5% ¼W |
| R160 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| R161 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| R162 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R163 | 1 | 1 | 1 | RT05301140 | Resistor, 300Ω ±5% ¼W |
| R164 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R165 | 1 | 1 | 1 | RT05104140 | Resistor, 100kΩ ±5% ¼W |
| R166 | 1 | 1 | 1 | RT05132140 | Resistor, 1.3kΩ ±5% ¼W |
| R167 | 1 | 1 | 1 | RT05242140 | Resistor, 2.4kΩ ±5% ¼W |
| R169 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R170 | 1 | 1 | 1 | RT05101140 | Resistor, 100Ω ±5% ¼W |
| R201 | 1 | 1 | 1 | RT05151140 | Resistor, 150Ω ±5% ¼W |
| R202 | 1 | 1 | 1 | RT05331140 | Resistor, 330Ω ±5% ¼W |
| R203 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| R204 | 1 | 1 | 1 | RT05272140 | Resistor, 2.7kΩ ±5% ¼W |
| R205 | 1 | 1 | 1 | RT05331140 | Resistor, 330Ω ±5% ¼W |
| R206 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R207 | 1 | 1 | 1 | RT05101140 | Resistor, 100Ω ±5% ¼W |
| R208 | 1 | 1 | 1 | RT05334140 | Resistor, 330kΩ ±5% ¼W |
| R209 | 1 | 1 | 1 | RA05030120 | Trimming Resistor, 50kΩ (B) |
| R210 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| R211 | 1 | 1 | 1 | RT05104140 | Resistor, 100kΩ ±5% ¼W |
| R212 | 1 | 1 | 1 | RA01030250 | Trimming Resistor, 10kΩ (B) |
| R213 | 1 | 1 | 1 | RT05123140 | Resistor, 12kΩ ±5% ¼W |
| R214 | 1 | 1 | 1 | RT05331140 | Resistor, 330Ω ±5% ¼W |
| R215 | 1 | 1 | 1 | RA05030120 | Trimming Resistor, 50kΩ (B) |
| R216 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| R217 | 1 | 1 | 1 | RT05222140 | Resistor, 2.2kΩ ±5% ¼W |
| R218 | 1 | 1 | 1 | RT05222140 | Resistor, 2.2kΩ ±5% ¼W |
| R219 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| R220 | 1 | 1 | 1 | RT05471140 | Resistor, 470Ω ±5% ¼W |
| R221 | 1 | 1 | 1 | RT05223140 | Resistor, 22kΩ ±5% ¼W |
| R222 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R301 | 1 | 1 | 1 | RA01030310 | Trimming Resistor, 10kΩ (B) |
| R302 | 1 | 1 | 1 | RT05104140 | Resistor, 100kΩ ±5% ¼W |
| R303 | 1 | 1 | 1 | RT05223140 | Resistor, 22kΩ ±5% ¼W |
| R304 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R305 | 1 | 1 | 1 | RT05104140 | Resistor, 100kΩ ±5% ¼W |
| R306 | 1 | 1 | 1 | RT05824140 | Resistor, 820kΩ ±5% ¼W |
| R307 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R308 | 1 | 1 | 1 | RC00000120 | Resistor, 0Ω |
| R309 | 1 | 1 | 1 | RT05224140 | Resistor, 220kΩ ±5% ¼W |
| R310 | 1 | 1 | 1 | RT05223140 | Resistor, 22kΩ ±5% ¼W |
| R311 | 1 | 1 | 1 | RT05272140 | Resistor, 2.7kΩ ±5% ¼W |
| R312 | 1 | 1 | 1 | RT05101140 | Resistor, 100Ω ±5% ¼W |
| R313 | 1 | 1 | 1 | RT05303140 | Resistor, 30kΩ ±5% ¼W |
| R314 | 1 | 1 | 1 | RT05303140 | Resistor, 30kΩ ±5% ¼W |
| R315 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R316 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R317 | 1 | 1 | 1 | RA02540010 | Trimming Resistor, 250kΩ (B) |

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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R318 | 1 | 1 | 1 | RT05104140 | Resistor, 100kΩ ±5% ¼W |
| R319 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| R320 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| R321 | 1 | 1 | 1 | RT05332140 | Resistor, 3.3kΩ ±5% ¼W |
| R322 | 1 | 1 | 1 | RT05332140 | Resistor, 3.3kΩ ±5% ¼W |
| R323 | 1 | 1 | 1 | RT05332140 | Resistor, 3.3kΩ ±5% ¼W |
| R324 | 1 | 1 | 1 | RT05332140 | Resistor, 3.3kΩ ±5% ¼W |
| R325 | 1 | 1 | 1 | RT05243140 | Resistor, 24kΩ ±5% ¼W |
| R326 | 1 | 1 | 1 | RT05243140 | Resistor, 24kΩ ±5% ¼W |
| R327 | 1 | 1 | 1 | RT05394140 | Resistor, 390kΩ ±5% ¼W |
| R328 | 1 | 1 | 1 | RT05394140 | Resistor, 390kΩ ±5% ¼W |
| R329 | 1 | 1 | 1 | RT05105141 | Resistor, 1MΩ ±5% ¼W |
| R330 | 1 | 1 | 1 | RT05105141 | Resistor, 1MΩ ±5% ¼W |
| R331 | 1 | 1 | 1 | RT05391140 | Resistor, 390Ω ±5% ¼W |
| R332 | 1 | 1 | 1 | RT05391141 | Resistor, 390Ω ±5% ¼W |
| R333 | 1 | 1 | 1 | RT05222141 | Resistor, 2.2kΩ ±5% ¼W |
| R334 | 1 | 1 | 1 | RT05222141 | Resistor, 2.2kΩ ±5% ¼W |
| R335 | 1 | 1 | 1 | RT05473141 | Resistor, 47kΩ ±5% ¼W |
| R336 | 1 | 1 | 1 | RT05473141 | Resistor, 47kΩ ±5% ¼W |
| R337 | 1 | 1 | 1 | RT05101141 | Resistor, 100Ω ±5% ¼W |
| R338 | 1 | 1 | 1 | RT05101141 | Resistor, 100Ω ±5% ¼W |
| R339 | 1 | 1 | 1 | RT05101140 | Resistor, 100Ω ±5% ¼W |
| R340 | 1 | 1 | 1 | RT05201141 | Resistor, 200Ω ±5% ¼W |
| C151 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C152 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C153 | 1 | 1 | 1 | DK17102010 | Ceramic Cap., 0.001μF ±20% |
| C154 | 1 | 1 | 1 | EA10701690 | Electrolytic Cap., 100μF 16V |
| C155 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF +80 −20 % |
| C156 | 1 | 1 | 1 | DF65391010 | Film Cap., 390pF ±5% |
| C157 | 1 | 1 | 1 | DD16150070 | Ceramic Cap., 15pF ±10% |
| C158 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C159 | 1 | 1 | 1 | DK17103010 | Ceramic Cap., 0.01μF ±20% |
| C160 | 1 | 1 | 1 | DD15820010 | Ceramic Cap., 82pF ±5% |
| C161 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C162 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF +80 −20 % |
| C163 | 1 | 1 | 1 | EA10505090 | Electrolytic Cap., 1μF 50V |
| C164 | 1 | 1 | 1 | EA47503590 | Electrolytic Cap., 4.7μF 35V |
| C165 | 1 | 1 | 1 | EA33502590 | Electrolytic Cap., 3.3μF 25V |
| C166 | 1 | 1 | 1 | DK17102010 | Ceramic Cap., 0.001μF ±20% |
| C167 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C168 | 1 | 1 | 1 | DK17103010 | Ceramic Cap., 0.01μF ±20% |
| C169 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF +80 −20 % |
| C170 | 1 | 1 | 1 | EA10701690 | Electrolytic Cap., 100μF 16V |
| C171 | 1 | 1 | 1 | DF16104010 | Film Cap., 0.1μF 50V |
| C172 | 1 | 1 | 1 | EV47501660 | Electrolytic Cap., 4.7μF 16V |
| C201 | 1 | 1 | 1 | DD15300010 | Ceramic Cap., 30pF ±5% |
| C202 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C203 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C204 | 1 | 1 | 1 | DK17103040 | Ceramic Cap., 0.01μF ±20% |
| C205 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF +80 −20 % |
| C206 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF +80 −20 % |
| C207 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF +80 −20 % |
| C208 | 1 | 1 | 1 | EA47503590 | Electrolytic Cap., 4.7μF 35V |
| C209 | 1 | 1 | 1 | DD15400040 | Ceramic Cap., 40pF ±5% |
| C210 | 1 | 1 | 1 | EA22601690 | Electrolytic Cap., 22μF 16V |
| C211 | 1 | 1 | 1 | EA47405010 | Electrolytic Cap., 0.47μF 50V |
| C212 | 1 | 1 | 1 | DK18403010 | Ceramic Cap., 0.04μF +100 −0 % |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C213 | 1 | 1 | 1 | DK18403010 | Ceramic Cap., 0.04μF +100 −0 % |
| C214 | 1 | 1 | 1 | DK18203020 | Ceramic Cap., 0.02μF +100 −0 % |
| C215 | 1 | 1 | 1 | DK18203020 | Ceramic Cap., 0.02μF +100 −0 % |
| C216 | 1 | 1 | 1 | DK18403010 | Ceramic Cap., 0.04μF +100 −0 % |
| C217 | 1 | 1 | 1 | EA10505090 | Electrolytic Cap., 1μF 50V |
| C218 | 1 | 1 | 1 | EA10505090 | Electrolytic Cap., 1μF 50V |
| C301 | 1 | 1 | 1 | EA47503590 | Electrolytic Cap., 4.7μF 35V |
| C302 | 1 | 1 | 1 | DF65361500 | Film Cap., 360pF ±5% |
| C303 | 1 | 1 | 1 | EA10701690 | Electrolytic Cap., 100μF 16V |
| C304 | 1 | 1 | 1 | EE33502510 | Electrolytic Cap., 3.3μF 25V |
| C305 | 1 | 1 | 1 | EE10505010 | Electrolytic Cap., 1μF 50V |
| C306 | 1 | 1 | 1 | EA10505090 | Electrolytic Cap., 1μF 50V |
| C307 | 1 | 1 | 1 | EQ22405010 | Electrolytic Cap., 0.22μF 50V |
| C308 | 1 | 1 | 1 | DF17473010 | Film Cap., 0.047μF |
| C309 | 1 | 1 | 1 | DD15500050 | Ceramic Cap., 50pF ±5% |
| C310 | 1 | 1 | 1 | DD15500050 | Ceramic Cap., 50pF ±5% |
| C311 | 1 | 1 | 1 | EA10601690 | Electrolytic Cap., 10μF 16V |
| C312 | 1 | 1 | 1 | EA10601690 | Electrolytic Cap., 10μF 16V |
| C313 | 1 | 1 | 1 | EA22505090 | Electrolytic Cap., 2.2μF 50V |
| C314 | 1 | 1 | 1 | EA22505090 | Electrolytic Cap., 2.2μF 50V |
| C315 | 1 | 1 | | DF15102050 | Film Cap., 1000pF ±5% |
| C316 | 1 | 1 | | DF15102050 | Film Cap., 1000pF ±5% |
| C317 | 1 | 1 | 1 | EA47405010 | Electrolytic Cap., 0.47μF 50V |
| C318 | 1 | 1 | 1 | EA47405010 | Electrolytic Cap., 0.47μF 50V |
| C319 | 1 | 1 | 1 | EV47501660 | Electrolytic Cap., 4.7μF 16V |
| C320 | 1 | 1 | 1 | EV47501660 | Electrolytic Cap., 4.7μF 16V |
| C321 | 1 | 1 | 1 | EA10701690 | Electrolytic Cap., 100μF 16V |
| C322 | 1 | 1 | 1 | EE10601620 | Electrolytic Cap., 10μF 16V |
| C315 | | | 1 | DF15222050 | Film Cap., 0.0022μF ±5% |
| C316 | | | 1 | DF15222050 | Film Cap., 0.0022μF ±5% |
| L151 | 1 | 1 | 1 | LC13320020 | Choke Coil, 3.3μH |
| L152 | 1 | 1 | 1 | LC13320020 | Choke Coil, 3.3μH |
| L153 | 1 | 1 | 1 | LC13320020 | Choke Coil, 3.3μH |
| L154 | 1 | 1 | 1 | LO10010480 | AM Osc. |
| L155 | 1 | 1 | 1 | LI10015010 | AM IFT |
| L156 | 1 | 1 | 1 | LI10015060 | AM IFT |
| L201 | 1 | 1 | 1 | LC13320020 | Choke Coil, 3.3μH |
| L202 | 1 | 1 | 1 | LI14019010 | FM IFT |
| L203 | 1 | 1 | 1 | LC11830010 | Choke Coil, 18μH |
| L301 | 1 | 1 | 1 | LS35025010 | L.P.F. FB3605 |
| Q151 | 1 | 1 | 1 | HC10019010 | IC, HA1197 |
| Q152 | 1 | 1 | 1 | HT313272A0 | Transistor, 2SC1327 S, T |
| Q201 | 1 | 1 | 1 | HT310471C0 | Transistor, 2SC1047 C |
| Q202 | 1 | 1 | 1 | HC10021010 | IC, HA1137W |
| Q203 | 1 | 1 | 1 | HD20011050 | Diode, 1S1555 |
| Q204 | 1 | 1 | 1 | HD20011050 | Diode, 1S1555 |
| Q205 | 1 | 1 | 1 | HD20011050 | Diode, 1S1555 |
| Q206 | 1 | 1 | 1 | HT308281D0 | Transistor, 2SC828 S |
| Q207 | 1 | 1 | 1 | HD20011050 | Diode, 1S1555 |
| Q301 | 1 | 1 | 1 | HT308281D0 | Transistor, 2SC828 S |
| Q302 | 1 | 1 | 1 | HC10020010 | IC, HA1196 |
| Q303 | 1 | 1 | 1 | HT313441E0 | Transistor, 2SC1344 E |
| Q304 | 1 | 1 | 1 | HT313441E0 | Transistor, 2SC1344 E |
| F151 | 1 | 1 | 1 | FF10045160 | Ceramic Filter, AM |
| F201 | 1 | 1 | 1 | FF11070050 | Ceramic Filter, FM |
| F202 | 1 | 1 | 1 | FF11070050 | Ceramic Filter, FM |
| F203 | 1 | 1 | 1 | FF11070050 | Ceramic Filter, FM |

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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| J201 ~ J232 | 32 | 32 | 32 | YP10001130 | Plug |
| | | | | | **P400 EQL. AMP. BOARD** |
| P400 | 1 | 1 | 1 | YA22040210 | P.W. Board |
| | 1 | 1 | 1 | ZZ22080210 | P.W. Board Assembly |
| P408 | 6 | 6 | 6 | 2933118020 | Spacer |
| R401 | 1 | 1 | 1 | RT05913140 | Resistor, 91kΩ ±5% ¼W |
| R402 | 1 | 1 | 1 | RT05913140 | Resistor, 91kΩ ±5% ¼W |
| R403 | 1 | 1 | 1 | RT05471140 | Resistor, 470Ω ±5% ¼W |
| R404 | 1 | 1 | 1 | RT05471140 | Resistor, 470Ω ±5% ¼W |
| R405 | 1 | 1 | 1 | RN05394140 | Resistor, 390kΩ ±5% ¼W |
| R406 | 1 | 1 | 1 | RN05394140 | Resistor, 390kΩ ±5% ¼W |
| R407 | 1 | 1 | 1 | RT05223140 | Resistor, 22kΩ ±5% ¼W |
| R408 | 1 | 1 | 1 | RT05223140 | Resistor, 22kΩ ±5% ¼W |
| R409 | 1 | 1 | 1 | RT05681140 | Resistor, 680Ω ±5% ¼W |
| R410 | 1 | 1 | 1 | RT05681140 | Resistor, 680Ω ±5% ¼W |
| R411 | 1 | 1 | 1 | RN05104140 | Resistor, 100kΩ ±5% ¼W |
| R412 | 1 | 1 | 1 | RN05104140 | Resistor, 100kΩ ±5% ¼W |
| R413 | 1 | 1 | 1 | RT05303140 | Resistor, 30kΩ ±5% ¼W |
| R414 | 1 | 1 | 1 | RT05303140 | Resistor, 30kΩ ±5% ¼W |
| R415 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| R416 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| R417 | 1 | 1 | 1 | RT05182140 | Resistor, 1.8kΩ ±5% ¼W |
| R418 | 1 | 1 | 1 | RT05182140 | Resistor, 1.8kΩ ±5% ¼W |
| R419 | 1 | 1 | 1 | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| R420 | 1 | 1 | 1 | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| R421 | 1 | 1 | 1 | RT05224140 | Resistor, 220kΩ ±5% ¼W |
| R422 | 1 | 1 | 1 | RT05224140 | Resistor, 220kΩ ±5% ¼W |
| R423 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R424 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| R425 | 1 | 1 | 1 | RT05152140 | Resistor, 1.5kΩ ±5% ¼W |
| R426 | 1 | 1 | 1 | RT05152140 | Resistor, 1.5kΩ ±5% ¼W |
| R427 | 1 | 1 | 1 | RN05564140 | Resistor, 560kΩ ±5% ¼W |
| R428 | 1 | 1 | 1 | RN05564140 | Resistor, 560kΩ ±5% ¼W |
| R429 | 1 | 1 | 1 | RT05101140 | Resistor, 100Ω ±5% ¼W |
| R430 | 1 | 1 | 1 | GJ05681010 | Resistor, 680Ω ±5% 1W |
| R431 | 1 | 1 | 1 | GF05330120 | Resistor, 33Ω ±5% ½W |
| R400 | 1 | 1 | 1 | RC00000120 | Resistor, 0Ω |
| C401 | 1 | 1 | 1 | EV22502560 | Electrolytic Cap., 2.2μF ±20% 25V |
| C402 | 1 | 1 | 1 | EV22502560 | Electrolytic Cap., 2.2μF ±20% 25V |
| C403 | 1 | 1 | 1 | DD15201010 | Ceramic Cap., 200pF ±10% 50V |
| C404 | 1 | 1 | 1 | DD15201010 | Ceramic Cap., 200pF ±10% 50V |
| C405 | 1 | 1 | 1 | DD16151010 | Ceramic Cap., 150pF ±10% 50V |
| C406 | 1 | 1 | 1 | DD16151010 | Ceramic Cap., 150pF ±10% 50V |
| C407 | 1 | 1 | 1 | EV22600660 | Electrolytic Cap., 22μF ±20% 6.3V |
| C408 | 1 | 1 | 1 | EV22600660 | Electrolytic Cap., 22μF ±20% 6.3V |
| C409 | 1 | 1 | 1 | DD16300010 | Ceramic Cap., 30pF ±10% 50V |
| C410 | 1 | 1 | 1 | DD16300010 | Ceramic Cap., 30pF ±10% 50V |
| C411 | 1 | 1 | 1 | EA47601690 | Electrolytic Cap., 47μF $^{+100}_{-10}$% 16V |
| C412 | 1 | 1 | 1 | EA47601690 | Electrolytic Cap., 47μF $^{+100}_{-10}$% 16V |
| C413 | 1 | 1 | 1 | DD16101010 | Ceramic Cap., 100pF ±10% 50V |
| C414 | 1 | 1 | 1 | DD16101010 | Ceramic Cap., 100pF ±10% 50V |
| C415 | 1 | 1 | 1 | EE22503510 | Electrolytic Cap., 2.2μF ±20% 35V |
| C416 | 1 | 1 | 1 | EE22503510 | Electrolytic Cap., 2.2μF ±20% 35V |
| C417 | 1 | 1 | 1 | DF15152010 | Film Cap., 0.0015μF ±20% 50V |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C418 | 1 | 1 | 1 | DF15152010 | Film Cap., 0.0015μF ±20% 50V |
| C419 | 1 | 1 | 1 | DF15562010 | Film Cap., 0.0056μF ±50% 50V |
| C420 | 1 | 1 | 1 | DF15562010 | Film Cap., 0.0056μF ±50% 50V |
| C421 | 1 | 1 | 1 | EA10705090 | Electrolytic Cap., 100μF $^{+100}_{-10}$% 50V |
| C422 | 1 | 1 | 1 | EA47601090 | Electrolytic Cap., 47μF $^{+100}_{-10}$% 10V |
| P411 | 4 | 4 | 4 | 75061251P0 | Jumper, |
| Q401 | 1 | 1 | 1 | HT313281T0 | Transistor, 2SC1328 T |
| Q402 | 1 | 1 | 1 | HT313281T0 | Transistor, 2SC1328 T |
| Q403 | 1 | 1 | 1 | HT313282A0 | Transistor, 2SC1328 S, T |
| Q404 | 1 | 1 | 1 | HT313282A0 | Transistor, 2SC1328 S, T |
| Q405 | 1 | 1 | 1 | HT313281T0 | Transistor, 2SC1328 T |
| Q406 | 1 | 1 | 1 | HT313281T0 | Transistor, 2SC1328 T |
| S401 | 1 | 1 | 1 | SR10050120 | Rotary Switch, Selector |
| J401 ~ J435 | 35 | 35 | 35 | YP10001130 | Plug |
| | | | | | **P700 MAIN AMP. BOARD** |
| P700 | 1 | 1 | 1 | YD22082010 | P.W. Board |
| | 1 | 1 | 1 | ZZ22082010 | P.W. Board Assembly |
| P707 | 32 | 32 | 32 | 3444118050 | Spacer |
| P708 | 26 | 26 | 26 | 2933118020 | Spacer |
| R701 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R702 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R703 | 1 | 1 | 1 | RT05333140 | Resistor, 33kΩ ±5% ¼W |
| R704 | 1 | 1 | 1 | RT05333140 | Resistor, 33kΩ ±5% ¼W |
| R705 | 1 | 1 | 1 | RT05682140 | Resistor, 6.8kΩ ±5% ¼W |
| R706 | 1 | 1 | 1 | RT05682140 | Resistor, 6.8kΩ ±5% ¼W |
| R707 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R708 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| R709 | 1 | 1 | 1 | RT05822140 | Resistor, 8.2kΩ ±5% ¼W |
| R710 | 1 | 1 | 1 | RT05822140 | Resistor, 8.2kΩ ±5% ¼W |
| R711 | 1 | 1 | 1 | RA05020170 | Trimming Resistor, 5kΩ (B) |
| R712 | 1 | 1 | 1 | RA05020170 | Trimming Resistor, 5kΩ (B) |
| R713 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| R714 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| R715 | 1 | 1 | 1 | RT05244140 | Resistor, 240kΩ ±5% ¼W |
| R716 | 1 | 1 | 1 | RT05244140 | Resistor, 240kΩ ±5% ¼W |
| R717 | 1 | 1 | 1 | RT05242140 | Resistor, 2.4kΩ ±5% ¼W |
| R718 | 1 | 1 | 1 | RT05242140 | Resistor, 2.4kΩ ±5% ¼W |
| R719 | 1 | 1 | 1 | RT05333140 | Resistor, 33kΩ ±5% ¼W |
| R720 | 1 | 1 | 1 | RT05333140 | Resistor, 33kΩ ±5% ¼W |
| R721 | 1 | 1 | 1 | RT05242140 | Resistor, 2.4kΩ ±5% ¼W |
| R722 | 1 | 1 | 1 | RT05242140 | Resistor, 2.4kΩ ±5% ¼W |
| R723 | 1 | 1 | 1 | GF05102120 | Resistor, 1kΩ ±5% ½W |
| R724 | 1 | 1 | 1 | GF05220120 | Resistor, 22Ω ±5% ½W |
| R725 | 1 | 1 | 1 | GF05330140 | Resistor, 33Ω ±5% ¼W |
| R726 | 1 | 1 | 1 | GF05330140 | Resistor, 33Ω ±5% ¼W |
| R727 | 1 | 1 | 1 | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| R728 | 1 | 1 | 1 | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| R729 | 1 | 1 | 1 | RT05820140 | Resistor, 82Ω ±5% ¼W |
| R730 | 1 | 1 | 1 | RT05820140 | Resistor, 82Ω ±5% ¼W |
| R731 | 1 | 1 | 1 | RA03010020 | Trimming Resistor, 300Ω (B) |
| R732 | 1 | 1 | 1 | RA03010020 | Trimming Resistor, 300Ω (B) |
| R733 | 1 | 1 | 1 | GF05681140 | Resistor, 680Ω ±5% ¼W |
| R734 | 1 | 1 | 1 | GF05681140 | Resistor, 680Ω ±5% ¼W |
| R735 | 1 | 1 | 1 | GF05331140 | Resistor, 330Ω ±5% ¼W |

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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| R736 | 1 | 1 | 1 | GF05331140 | Resistor, 330Ω ±5% ¼W |
| R737 | 1 | 1 | 1 | GF05301140 | Resistor, 300Ω ±5% ¼W |
| R738 | 1 | 1 | 1 | GF05301140 | Resistor, 300Ω ±5% ¼W |
| R739 | 1 | 1 | 1 | GF05241140 | Resistor, 240Ω ±5% ¼W |
| R740 | 1 | 1 | 1 | GF05241140 | Resistor, 240Ω ±5% ¼W |
| R741 | 1 | 1 | 1 | GF05271140 | Resistor, 270Ω ±5% ¼W |
| R742 | 1 | 1 | 1 | GF05271140 | Resistor, 270Ω ±5% ¼W |
| R743 | 1 | 1 | 1 | GF05241140 | Resistor, 240Ω ±5% ¼W |
| R744 | 1 | 1 | 1 | GF05241140 | Resistor, 240Ω ±5% ¼W |
| R745 | 1 | 1 | 1 | GF05221140 | Resistor, 220Ω ±5% ¼W |
| R746 | 1 | 1 | 1 | GF05221140 | Resistor, 220Ω ±5% ¼W |
| R747 | 1 | 1 | 1 | GF05512140 | Resistor, 5.1kΩ ±5% ¼W |
| R748 | 1 | 1 | 1 | GF05512140 | Resistor, 5.1kΩ ±5% ¼W |
| R749 | 1 | 1 | 1 | GF05562140 | Resistor, 5.6kΩ ±5% ¼W |
| R750 | 1 | 1 | 1 | GF05562140 | Resistor, 5.6kΩ ±5% ¼W |
| R751 | 1 | 1 | 1 | GF05223140 | Resistor, 22kΩ ±5% ¼W |
| R752 | 1 | 1 | 1 | GF05223140 | Resistor, 22kΩ ±5% ¼W |
| R753 | 1 | 1 | 1 | GJ05100020 | Resistor, 10Ω ±5% 2W |
| R754 | 1 | 1 | 1 | GJ05100020 | Resistor, 10Ω ±5% 2W |
| R755 | 1 | 1 | 1 | GF05100140 | Resistor, 10Ω ±5% ¼W |
| R756 | 1 | 1 | 1 | GF05100140 | Resistor, 10Ω ±5% ¼W |
| R757 | 1 | 1 | 1 | GF05100140 | Resistor, 10Ω ±5% ¼W |
| R758 | 1 | 1 | 1 | GF05100140 | Resistor, 10Ω ±5% ¼W |
| R759 | 1 | 1 | 1 | GF05221120 | Resistor, 220Ω ±5% ½W |
| R760 | 1 | 1 | 1 | GF05221120 | Resistor, 220Ω ±5% ½W |
| R761 | 1 | 1 | 1 | GF05221120 | Resistor, 220Ω ±5% ½W |
| R762 | 1 | 1 | 1 | GF05221120 | Resistor, 220Ω ±5% ½W |
| R763 | 1 | 1 | 1 | GW10392050 | Resistor, 0.39Ω ±10% 5W |
| R764 | 1 | 1 | 1 | GW10392050 | Resistor, 0.39Ω ±10% 5W |
| R765 | 1 | 1 | 1 | GW10392050 | Resistor, 0.39Ω ±10% 5W |
| R766 | 1 | 1 | 1 | GW10392050 | Resistor, 0.39Ω ±10% 5W |
| R767 | 1 | 1 | 1 | RC10022120 | Resistor, 2.2Ω ±10% ½W |
| R768 | 1 | 1 | 1 | RC10022120 | Resistor, 2.2Ω ±10% ½W |
| R769 | 1 | 1 | 1 | RC10562120 | Resistor, 5.6kΩ ±10% ½W |
| R770 | 1 | 1 | 1 | RC10562120 | Resistor, 5.6kΩ ±10% ½W |
| R771 | 1 | 1 | 1 | RT05223140 | Resistor, 22kΩ ±5% ¼W |
| R772 | 1 | 1 | 1 | RT05183140 | Resistor, 18kΩ ±5% ¼W |
| R773 | 1 | 1 | 1 | RT05682140 | Resistor, 6.8kΩ ±5% ¼W |
| R774 | 1 | 1 | 1 | RT05393140 | Resistor, 39kΩ ±5% ¼W |
| R775 | 1 | 1 | 1 | RT05184140 | Resistor, 180kΩ ±5% ¼W |
| R776 | 1 | 1 | 1 | GJ05331010 | Resistor, 330Ω ±5% 1W |
| P711 | 5 | 5 | 5 | 75061251P0 | Jumper, 12.5 mm |
| C701 | 1 | 1 | 1 | EE33502510 | Electrolytic Cap., 3.3μF ±20% 25V |
| C702 | 1 | 1 | 1 | EE33502510 | Electrolytic Cap., 3.3μF ±20% 25V |
| C703 | 1 | 1 | 1 | DD16201010 | Ceramic Cap., 200pF 50V |
| C704 | 1 | 1 | 1 | DD16201010 | Ceramic Cap., 200pF 50V |
| C705 | 1 | 1 | 1 | EE47601620 | Electrolytic Cap., 47μF ±20% 16V |
| C706 | 1 | 1 | 1 | EE47601620 | Electrolytic Cap., 47μF ±20% 16V |
| C707 | 1 | 1 | 1 | DD10030500 | Ceramic Cap., 3pF 500V |
| C708 | 1 | 1 | 1 | DD10030500 | Ceramic Cap., 3pF 500V |
| C709 | 1 | 1 | 1 | EA47605090 | Electrolytic Cap., 47μF $^{+100}_{-10}$% 50V |
| C710 | 1 | 1 | 1 | EA47605090 | Electrolytic Cap., 47μF $^{+100}_{-10}$% 50V |
| C711 | 1 | 1 | 1 | DF16103050 | Film Cap., 0.01μF ±10% 50V |
| C712 | 1 | 1 | 1 | DF16103050 | Film Cap., 0.01μF ±10% 50V |
| C713 | 1 | 1 | 1 | DF16103050 | Film Cap., 0.01μF ±10% 50V |
| C714 | 1 | 1 | 1 | DF16103050 | Film Cap., 0.01μF ±10% 50V |
| C715 | 1 | 1 | 1 | DF17104010 | Film Cap., 0.1μF 50V |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| C716 | 1 | 1 | 1 | DF17104010 | Film Cap., 0.1μF 50V |
| C717 | 1 | 1 | 1 | DF17104010 | Film Cap., 0.1μF 50V |
| C718 | 1 | 1 | 1 | DF17104010 | Film Cap., 0.1μF 50V |
| C719 | 1 | 1 | 1 | EE10601620 | Electrolytic Cap., 10μF ±20% 16V |
| C720 | 1 | 1 | 1 | EE10601620 | Electrolytic Cap., 10μF ±20% 16V |
| C721 | 1 | 1 | 1 | EE10601620 | Electrolytic Cap., 10μF ±20% 16V |
| C722 | 1 | 1 | 1 | EE10601620 | Electrolytic Cap., 10μF ±20% 16V |
| C723 | 1 | 1 | 1 | DK16101500 | Ceramic Cap., 100pF 500V |
| C724 | 1 | 1 | 1 | DK16101500 | Ceramic Cap., 100pF 500V |
| C725 | 1 | 1 | 1 | DK16101500 | Ceramic Cap., 100pF 500V |
| C726 | 1 | 1 | 1 | DK16101500 | Ceramic Cap., 100pF 500V |
| C727 | 1 | 1 | 1 | DF17104520 | Film Cap., 0.1μF ±20% 200V |
| C728 | 1 | 1 | 1 | DF17104520 | Film Cap., 0.1μF ±20% 200V |
| C729 | 1 | 1 | 1 | EA10603590 | Electrolytic Cap., 10μF $^{+100}_{-10}$% 35V |
| C730 | 1 | 1 | 1 | EA47601690 | Electrolytic Cap., 47μF $^{+100}_{-10}$% 16V |
| C731 | 1 | 1 | 1 | EA22701090 | Electrolytic Cap., 220μF $^{+100}_{-10}$% 10V |
| C732 | 1 | 1 | 1 | EA22705090 | Electrolytic Cap., 220μF $^{+100}_{-10}$% 50V |
| Q701 | 1 | 1 | 1 | HT107502B0 | Transistor, 2SA750 E, U |
| Q702 | 1 | 1 | 1 | HT107502B0 | Transistor, 2SA750 E, U |
| Q703 | 1 | 1 | 1 | HT107502B0 | Transistor, 2SA750 E, U |
| Q704 | 1 | 1 | 1 | HT107502B0 | Transistor, 2SA750 E, U |
| Q705 | 1 | 1 | 1 | HV00003120 | Diode, MV-13 |
| Q706 | 1 | 1 | 1 | HV00003120 | Diode, MV-13 |
| Q707 | 1 | 1 | 1 | HT318853B0 | Transistor, 2SC1885 C, D, E |
| Q708 | 1 | 1 | 1 | HT318853B0 | Transistor, 2SC1885 C, D, E |
| Q709 | 1 | 1 | 1 | HT309451Q0 | Transistor, 2SC945 Q |
| Q710 | 1 | 1 | 1 | HT309451Q0 | Transistor, 2SC945 Q |
| Q711 | 1 | 1 | 1 | HT107331Q0 | Transistor, 2SA733 Q |
| Q712 | 1 | 1 | 1 | HT107331Q0 | Transistor, 2SA733 Q |
| Q713 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q714 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q715 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q716 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q717 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q718 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q719 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q720 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q721 | 1 | 1 | 1 | HT315672B0 | Transistor, 2SC1567 Q, R |
| Q722 | 1 | 1 | 1 | HT107942B0 | Transistor, 2SA794 Q, R |
| Q723 | 1 | 1 | 1 | HT315672B0 | Transistor, 2SC1567 Q, R |
| Q724 | 1 | 1 | 1 | HT107942B0 | Transistor, 2SA794 Q, R |
| Q725 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q726 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q727 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q728 | 1 | 1 | 1 | HD20002210 | Diode, 1S2472 (Gr) |
| Q729 | 1 | 1 | 1 | HV00003120 | Diode, MV-13 |
| Q730 | 1 | 1 | 1 | HV00003120 | Diode, MV-13 |
| Q731 | 1 | 1 | 1 | HD20005010 | Diode, W06B |
| Q732 | 1 | 1 | 1 | HD20005010 | Diode, W06B |
| Q733 | 1 | 1 | 1 | HD20005010 | Diode, W06B |
| Q734 | 1 | 1 | 1 | HD20005010 | Diode, W06B |
| Q735 | 1 | 1 | 1 | HH00003030 | Thermistor, STD-04 |
| Q736 | 1 | 1 | 1 | HH00003030 | Thermistor, STD-04 |
| Q737 | 1 | 1 | 1 | HD30030090 | Diode, WZ-177 |
| Q738 | 1 | 1 | 1 | HT309452A0 | Transistor, 2SC945 Q, R |
| Q739 | 1 | 1 | 1 | HT309452A0 | Transistor, 2SC945 Q, R |
| Q740 | 1 | 1 | 1 | HT313182C0 | Transistor, 2SC1318 R, S |

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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| Q741 | 1 | 1 | 1 | HD20003210 | Diode, 1S2471 (BI) |
| L701 | 1 | 1 | 1 | LC22620010 | Coil, 2.6μH |
| L702 | 1 | 1 | 1 | LC22620010 | Coil, 2.6μH |
| L703 | 1 | 1 | 1 | LY20240090 | Relay |
| J701 ~ J729 | 29 | 29 | 29 | YP10001130 | Plug |
| | | | | | **P800 POWER SUPPLY BOARD** |
| P800 | 1 | 1 | 1 | YA22040310 | P.W. Board |
| | 1 | 1 | 1 | ZZ22040310 | P.W. Board Assembly |
| P808 | 10 | 10 | 10 | 2933118020 | Spacer |
| R801 | 1 | 1 | 1 | GJ05220020 | Resistor, 22Ω ±5% 2W |
| R802 | 1 | 1 | 1 | GF05100140 | Resistor, 10Ω ±5% ¼W |
| R803 | 1 | 1 | 1 | RT05152140 | Resistor, 1.5kΩ ±5% ¼W |
| R804 | 1 | 1 | 1 | RT05152140 | Resistor, 1.5kΩ ±5% ¼W |
| R805 | 1 | 1 | 1 | GJ05221030 | Resistor, 220Ω ±5% 3W |
| R806 | 1 | 1 | 1 | RT05363140 | Resistor, 36kΩ ±5% ¼W |
| R807 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| R808 | 1 | 1 | 1 | RA05020130 | Trimming Resistor, 5kΩ (B) |
| P811 | 1 | 1 | 1 | 75061251P0 | Jumper, |
| C801 | 1 | 1 | 1 | DK18103510 | Ceramic Cap., 0.01μF 500V |
| C802 | 1 | 1 | 1 | EA47706310 | Electrolytic Cap., 470μF 63V |
| C803 | 1 | 1 | 1 | EA47705090 | Electrolytic Cap., 470μF 50V |
| C804 | 1 | 1 | 1 | EA10705090 | Electrolytic Cap., 100μF 50V |
| C805 | 1 | 1 | 1 | DF17473050 | Film Cap., 0.047μF 50V |
| C806 | 1 | 1 | 1 | DK18403020 | Ceramic Cap., 0.04μF 50V |
| C807 | 1 | 1 | 1 | EA33505090 | Electrolytic Cap., 3.3μF 50V |
| C808 | 1 | 1 | 1 | EA47701690 | Electrolytic Cap., 470μF 16V |
| C809 | 1 | 1 | 1 | EA10801090 | Electrolytic Cap., 1000μF 10V |
| Q801 | 1 | 1 | 1 | HD20012030 | Diode, DS132B |
| Q802 | 1 | 1 | 1 | HD20011030 | Diode, DS131B |
| Q803 | 1 | 1 | 1 | HT403302A0 | Transistor, 2SD330 D, E |
| Q804 | 1 | 1 | 1 | HT309452A0 | Transistor, 2SC945 Q, R |
| Q805 | 1 | 1 | 1 | HD30021090 | Diode, BZ-140 14V |
| Q806 | 1 | 1 | 1 | HD20004130 | Diode, S1B01-02 |
| J801 ~ J814 J815 ~ J818 | 14 | 14 | 14 | YP10001140 | Plug |
| | 4 | 4 | 4 | YJ08000210 | Socket, Fuse |
| F801 | 1 | 1 | 1 | FS10100080 | Fuse, MGC 1A 30mm |
| F802 | 1 | 1 | | FS10200060 | Fuse, MGC 2A 30 mm |
| F801 | | | 1 | FS10100900 | Fuse, SGA 1A 20 mm |
| F802 | | | 1 | FS10200900 | Fuse, SGA 2A 20 mm |
| | | | | | **PE01 PRE-TONE AMP. BOARD** |
| PE01 | 1 | 1 | 1 | YD29151082 | P.W. Board |
| | 1 | 1 | 1 | ZZ22081082 | P.W. Board Assembly |
| PE08 | 2 | 2 | 2 | 2933118020 | Spacer |
| RE01 | 1 | 1 | 1 | RT05474140 | Resistor, 470kΩ ±5% ¼W |
| RE02 | 1 | 1 | 1 | RT05474140 | Resistor, 470kΩ ±5% ¼W |
| RE03 | 1 | 1 | 1 | RT05391140 | Resistor, 390Ω ±5% ¼W |
| RE04 | 1 | 1 | 1 | RT05391140 | Resistor, 390Ω ±5% ¼W |
| RE05 | 1 | 1 | 1 | RN05105140 | Resistor, 1MΩ ±5% ¼W |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| RE06 | 1 | 1 | 1 | RN05105140 | Resistor, 1MΩ ±5% ¼W |
| RE07 | 1 | 1 | 1 | RN05104140 | Resistor, 100kΩ ±5% ¼W |
| RE08 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| RE09 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| RE10 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| RE11 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RE12 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RE13 | 1 | 1 | 1 | RT05752140 | Resistor, 7.5kΩ ±5% ¼W |
| RE14 | 1 | 1 | 1 | RT05752140 | Resistor, 7.5kΩ ±5% ¼W |
| RE15 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RE16 | 1 | 1 | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RE17 | 1 | 1 | 1 | RT05474140 | Resistor, 470kΩ ±5% ¼W |
| RE18 | 1 | 1 | 1 | RT05474140 | Resistor, 470kΩ ±5% ¼W |
| RE19 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| RE20 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| RE21 | 1 | 1 | 1 | RT05123140 | Resistor, 12kΩ ±5% ¼W |
| RE22 | 1 | 1 | 1 | RT05123140 | Resistor, 12kΩ ±5% ¼W |
| RE23 | 1 | 1 | 1 | RT05334140 | Resistor, 330kΩ ±5% ¼W |
| RE24 | 1 | 1 | 1 | RT05334140 | Resistor, 330kΩ ±5% ¼W |
| RE25 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| RE26 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| RE27 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| RE28 | 1 | 1 | 1 | RT05562140 | Resistor, 5.6kΩ ±5% ¼W |
| RE29 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| RE30 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| RE31 | 1 | 1 | 1 | RT05123140 | Resistor, 12kΩ ±5% ¼W |
| RE32 | 1 | 1 | 1 | RT05123140 | Resistor, 12kΩ ±5% ¼W |
| RE33 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| RE34 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| RE35 | 1 | 1 | 1 | RT05334140 | Resistor, 330kΩ ±5% ¼W |
| RE36 | 1 | 1 | 1 | RT05334140 | Resistor, 330kΩ ±5% ¼W |
| RE37 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| RE38 | 1 | 1 | 1 | RT05273140 | Resistor, 27kΩ ±5% ¼W |
| RE39 | 1 | 1 | 1 | RT05225140 | Resistor, 2.2MΩ ±5% ¼W |
| RE40 | 1 | 1 | 1 | RT05225140 | Resistor, 2.2MΩ ±5% ¼W |
| RE41 | 1 | 1 | 1 | RT05683140 | Resistor, 68kΩ ±5% ¼W |
| RE42 | 1 | 1 | 1 | RT05683140 | Resistor, 68kΩ ±5% ¼W |
| RE43 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| RE44 | 1 | 1 | 1 | RT05473140 | Resistor, 47kΩ ±5% ¼W |
| RE45 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| RE46 | 1 | 1 | 1 | RT05103140 | Resistor, 10kΩ ±5% ¼W |
| RE47 | 1 | 1 | 1 | RT05221140 | Resistor, 220Ω ±5% ¼W |
| RE48 | 1 | 1 | 1 | RT05221140 | Resistor, 220Ω ±5% ¼W |
| RE49 | 1 | 1 | 1 | RT05474140 | Resistor, 470kΩ ±5% ¼W |
| RE50 | 1 | 1 | 1 | RT05474140 | Resistor, 470kΩ ±5% ¼W |
| RE51 | 1 | 1 | 1 | RD01040052 | Variable Resistor, 100kΩ (B) High |
| RE52 | 1 | 1 | 1 | RD01040052 | Variable Resistor, 100kΩ (B) Middle |
| RE53 | 1 | 1 | 1 | RD01040052 | Variable Resistor, 100kΩ (B) Low |
| RE54 | 1 | 1 | 1 | RT05821140 | Resistor, 820Ω ±5% ¼W |
| RE55 | 1 | 1 | 1 | RC00000120 | Resistor, 0Ω |
| RE56 | 1 | 1 | 1 | RC00000120 | Resistor, 0Ω |
| CE01 | 1 | 1 | 1 | DF17224050 | Film Cap., 0.22μF ±20% 50V |
| CE02 | 1 | 1 | 1 | DF17224050 | Film Cap., 0.22μF ±20% 50V |
| CE03 | 1 | 1 | 1 | EA10603590 | Electrolytic Cap., 10μF $^{+100}_{-10}$% 35V |
| CE04 | 1 | 1 | 1 | EA10603590 | Electrolytic Cap., 10μF $^{+100}_{-10}$% 35V |
| CE05 | 1 | 1 | 1 | EE47502510 | Electrolytic Cap., 4.7μF ±20% 25V |
| CE06 | 1 | 1 | 1 | EE47502510 | Electrolytic Cap., 4.7μF ±20% 25V |

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- (C) for Canada
- (E) for Europe

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| CE07 | 1 | 1 | 1 | DD16101010 | Ceramic Cap., 100pF ±10% 50V |
| CE08 | 1 | 1 | 1 | DD16101010 | Ceramic Cap., 100pF ±10% 50V |
| CE09 | 1 | 1 | 1 | DF16222050 | Film Cap., 0.0022μF ±10% 50V |
| CE10 | 1 | 1 | 1 | DF16222050 | Film Cap., 0.0022μF ±10% 50V |
| CE11 | 1 | 1 | 1 | DF16472050 | Film Cap., 0.0047μF ±10% 50V |
| CE12 | 1 | 1 | 1 | DF16472050 | Film Cap., 0.0047μF ±10% 50V |
| CE13 | 1 | 1 | 1 | DF16223050 | Film Cap., 0.022μF ±10% 50V |
| CE14 | 1 | 1 | 1 | DF16223050 | Film Cap., 0.022μF ±10% 50V |
| CE15 | 1 | 1 | 1 | DF16223050 | Film Cap., 0.022μF ±10% 50V |
| CE16 | 1 | 1 | 1 | DF16223050 | Film Cap., 0.022μF ±10% 50V |
| CE17 | 1 | 1 | 1 | DF16822050 | Film Cap., 0.0082μF ±10% 50V |
| CE18 | 1 | 1 | 1 | DF16822050 | Film Cap., 0.0082μF ±10% 50V |
| CE19 | 1 | 1 | 1 | EE10505010 | Electrolytic Cap., 1μF ±20% 50V |
| CE20 | 1 | 1 | 1 | EE10505010 | Electrolytic Cap., 1μF ±20% 50V |
| CE21 | 1 | 1 | 1 | EE33505010 | Electrolytic Cap., 33μF ±10% 50V |
| CE22 | 1 | 1 | 1 | EE33505010 | Electrolytic Cap., 33μF ±10% 50V |
| CE23 | 1 | 1 | 1 | EQ10505010 | Electrolytic Cap., 1μF ±30% 50V |
| CE24 | 1 | 1 | 1 | EQ10505010 | Electrolytic Cap., 1μF ±30% 50V |
| CE25 | 1 | 1 | 1 | EA22703590 | Electrolytic Cap., 220μF $^{+100}_{-10}$% 35V |
| HE01 | 1 | 1 | 1 | HT313283A0 | Transistor, 2SC1328 S, T, U |
| HE02 | 1 | 1 | 1 | HT313283A0 | Transistor, 2SC1328 S, T, U |
| HE03 | 1 | 1 | 1 | HT107222A0 | Transistor, 2SA722 S, T |
| HE04 | 1 | 1 | 1 | HT107222A0 | Transistor, 2SA722 S, T |
| HE05 | 1 | 1 | 1 | HT313283A0 | Transistor, 2SC1328 S, T, U |
| HE06 | 1 | 1 | 1 | HT313283A0 | Transistor, 2SC1328 S, T, U |
| HE07 | 1 | 1 | 1 | HT107222A0 | Transistor, 2SA722 S, T |
| HE08 | 1 | 1 | 1 | HT107222A0 | Transistor, 2SA722 S, T |
| JE01 ~ JE08 | 8 | 8 | 8 | YP10001130 | Plug |
| | | | | | **PH01 FILTER, DOLBY BOARD** |
| PH01 | 1 | 1 | | YD29151090 | P.W. Board |
| | 1 | 1 | | ZZ22041090 | P.W. Board Assembly |
| RH01 | 1 | 1 | | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RH02 | 1 | 1 | | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RH04 | 1 | 1 | | RT05105140 | Resistor, 1MΩ ±5% ¼W |
| RH05 | 1 | 1 | | RT05105140 | Resistor, 1MΩ ±5% ¼W |
| RH06 | 1 | 1 | | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| RH07 | 1 | 1 | | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| RH08 | 1 | 1 | | RT05225140 | Resistor, 2.2MΩ ±5% ¼W |
| RH09 | 1 | 1 | | RT05225140 | Resistor, 2.2MΩ ±5% ¼W |
| CH01 | 1 | 1 | | DF15222050 | Film Cap., 0.0022μF ±10% 50V |
| CH02 | 1 | 1 | | DF15222050 | Film Cap., 0.0022μF ±10% 50V |
| CH03 | 1 | 1 | | DF16682050 | Film Cap., 0.0068μF ±10% 50V |
| CH04 | 1 | 1 | | DF16682050 | Film Cap., 0.0068μF ±10% 50V |
| CH05 | 1 | 1 | | EV22403510 | Electrolytic Cap., 0.22μF ±20% 35V |
| CH06 | 1 | 1 | | EV22403510 | Electrolytic Cap., 0.22μF ±20% 35V |
| SH01 | 1 | 1 | | SP04040140 | Push Switch |
| JH01 | 1 | 1 | | YP10001200 | Plug |
| JH02 | 1 | 1 | | YP10001200 | Plug |
| JH09 ~ JH28 | 20 | 20 | 20 | YP10001200 | Plug |
| | | | | | **PH01 LOW, HI-FILTER BOARD** |
| PH01 | | | 1 | YD29150050 | P.W. Board |
| | | | 1 | ZZ22048050 | P.W. Board Assembly |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| RH01 | | | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RH02 | | | 1 | RT05102140 | Resistor, 1kΩ ±5% ¼W |
| RH04 | | | 1 | RT05105140 | Resistor, 1MΩ ±5% ¼W |
| RH05 | | | 1 | RT05105140 | Resistor, 1MΩ ±5% ¼W |
| RH06 | | | 1 | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| RH07 | | | 1 | RT05472140 | Resistor, 4.7kΩ ±5% ¼W |
| RH08 | | | 1 | RT05225140 | Resistor, 2.2MΩ ±5% ¼W |
| RH09 | | | 1 | RT05225140 | Resistor, 2.2MΩ ±5% ¼W |
| CH01 | | | 1 | DF16333050 | Film Cap., 0.033μF ±10% 50V |
| CH02 | | | 1 | DF16333050 | Film Cap., 0.033μF ±10% 50V |
| CH03 | | | 1 | DF16682050 | Film Cap., 0.0068μF ±10% 50V |
| CH04 | | | 1 | DF16682050 | Film Cap., 0.0068μF ±10% 50V |
| SH01 | | | 1 | SP04040130 | Push Switch |
| JH01 ~ JH17 | | | 17 | YP10001200 | Plug |
| | | | | | **PT01 SYSTEM 1-SYSTEM 2 BOARD** |
| PT01 | 1 | 1 | 1 | YD29151100 | P.W. Board |
| | 1 | 1 | 1 | ZZ29153100 | P.W. Board Assembly |
| PT07 | 4 | 4 | 4 | 3444118050 | Spacer |
| RT01 | 1 | 1 | 1 | RT05683140 | Resistor, 68kΩ ±5% ¼W |
| RT02 | 1 | 1 | 1 | RT05683140 | Resistor, 68kΩ ±5% ¼W |
| RT03 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| RT04 | 1 | 1 | 1 | RT05153140 | Resistor, 15kΩ ±5% ¼W |
| RT05 | 1 | 1 | 1 | GJ05331020 | Resistor, 330Ω ±5% 2W |
| RT06 | 1 | 1 | 1 | GJ05331020 | Resistor, 330Ω ±5% 2W |
| RT07 | 1 | 1 | 1 | GU05151120 | Resistor, 150Ω ±5% ¼W |
| RT08 | 1 | 1 | 1 | GU05151120 | Resistor, 150Ω ±5% ¼W |
| CT01 | 1 | 1 | 1 | DD16121010 | Ceramic Cap., 120pF ±10% 50V |
| CT02 | 1 | 1 | 1 | DD16121010 | Ceramic Cap., 120pF ±10% 50V |
| CT03 | 1 | 1 | 1 | DF16273050 | Film Cap., 0.027μF ±10% 50V |
| CT04 | 1 | 1 | 1 | DF16273050 | Film Cap., 0.027μF ±10% 50V |
| ST01 | 1 | 1 | 1 | SP04040110 | Push Switch |
| JT01 ~ JT16 | 16 | 16 | 16 | YP10001200 | Plug |
| | | | | | **PZ01 DIAL LAMP BOARD** |
| PZ01 | 1 | 1 | 1 | YD28860160 | P.W. Board |
| | 1 | 1 | 1 | ZZ28891160 | P.W. Board Assembly |
| MZ01 ~ MZ05 | 5 | 5 | 5 | IN10080070 | Lamp |
| JZ01 ~ JZ10 | 10 | 10 | 10 | YJ08000170 | Socket |
| JZ11 ~ JZ14 | 4 | 4 | 4 | YP10001200 | Plug |
| M001 | 1 | 1 | 1 | IM11042270 | DC Meter |
| M002 | 1 | 1 | 1 | IM11042240 | DC Meter |
| M003 | 1 | 1 | 1 | IN10080340 | Lamp |
| M005 | 1 | 1 | 1 | IN10080070 | Lamp |
| M006 | 1 | 1 | 1 | IN10080070 | Lamp |
| L001 | 1 | 1 | 1 | LF11200460 | Ant. Coil |
| L002 | 1 | 1 | 1 | LC11540020 | Choke Coil |

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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| L003 | 1 | 1 | | TS60505010 | Power Transformer |
| L003 | | | 1 | TS60505020 | Power Transformer |
| S001 | 1 | 1 | 1 | SP02010150 | Power Switch |
| C001 | 1 | 1 | 1 | DK18103010 | Ceramic Cap., 0.01μF 50V |
| C002 | 1 | 1 | 1 | DK18103010 | Ceramic Cap., 0.01μF 50V |
| C003 | 1 | 1 | 1 | EC10905020 | Electrolytic Cap., 10000μF 50V |
| C004 | 1 | 1 | 1 | EC10905020 | Electrolytic Cap., 10000μF 50V |
| C006 | | 1 | | DF17473590 | Film Cap., 0.047μF |
| C006 | | | 1 | DF17223800 | Film Cap., 0.022μF 1000V |
| C007 | 1 | 1 | 1 | DK18103510 | Ceramic Cap., 0.01μF 500V |
| G001 | 1 | | | BF10400040 | Printed Comp. |
| R001 | 1 | 1 | 1 | RS05040050 | Variable Resistor, 500kΩ Bal. |
| R002 | 1 | 1 | 1 | RM02540220 | Variable Resistor, 250kΩ Vol. |
| R003 | 1 | 1 | | RC10225120 | Resistor, 2.2MΩ ¼W |
| H007 | 1 | 1 | 1 | HD20004290 | Diode, S5VB |
| J001 | 1 | 1 | 1 | BY04050010 | Terminal |
| J002 | 1 | 1 | 1 | YL01020030 | Terminal |
| J003 | 1 | 1 | 1 | YT01010050 | Terminal |
| J004 | 1 | 1 | 1 | YT02040140 | Terminal |
| J005 | 1 | 1 | 1 | YT02040140 | Terminal |
| J006 | 1 | 1 | 1 | YT02040140 | Terminal |
| J007 | 1 | 1 | 1 | YT02040170 | Terminal |
| J008 | 1 | 1 | 1 | YT02010130 | Terminal |
| J009 | 1 | 1 | 1 | YJ05000220 | Socket |
| J010 | 1 | 1 | 1 | YJ05000220 | Socket |
| J011 | 1 | 1 | 1 | YJ05000220 | Socket |
| J012 | 1 | 1 | 1 | YJ05000220 | Socket |
| J013 | 1 | 1 | 1 | YT03040160 | Terminal |
| J014 | 1 | 1 | 1 | YT03040160 | Terminal |
| J015 | 1 | 1 | 1 | YJ01000980 | Jack |
| J016 | 1 | 1 | 1 | YJ08000190 | Socket |
| J017 | 1 | 1 | 1 | YJ08000190 | Socket |
| J018 | 1 | 1 | | YJ08000120 | Socket |
| J018 | | | 1 | YJ08000220 | Socket |
| J019 | 1 | 1 | 1 | YJ04000560 | Socket |
| J020 | 1 | 1 | 1 | YJ04000560 | Socket |
| J021 | | | 1 | BY03110010 | Terminal |
| H001 | 1 | 1 | 1 | HT31343B0 | Transistor, 2SC1343 B, C |
| H003 | 1 | 1 | 1 | HT10753B0 | Transistor, 2SA753 B, C |
| H002 | 1 | 1 | 1 | HT31343B0 | Transistor, 2SC1343 B, C |
| H004 | 1 | 1 | 1 | HT10753B0 | Transistor, 2SA753 B, C |
| H005 | 1 | 1 | 1 | HV00005080 | Varistor |
| H006 | 1 | 1 | 1 | HV00005080 | Varistor |
| W001 | 1 | 1 | | YC02400220 | AC Cord |
| W001 | | | 1 | YC01900030 | AC Cord |
| F001 | | | 1 | FS10400900 | Fuse |
| F001 | 1 | 1 | | FS10500040 | Fuse |
| F002 | | 1 | | FS20500900 | Fuse |

## 22. TECHNICAL SPECIFICATIONS

### Amplifier Section

**RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN ..... 52 WATTS**
**POWER BAND ..... 20 Hz to 20 kHz**
**TOTAL HARMONIC DISTORTION ..... 0.1%**
**LOAD IMPEDANCE ..... 8 OHMS**

Maximum Power Output, DIN 45500 ..... **62W**
(less than 1% THD, 10 min. test)
Power Bandwidth at 1% THD, DIN 45500 ..... 10 Hz ~ 60 kHz
I.M. Distortion (I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output) ..... 0.1%
Damping Factor ..... 45
Sensitivity (at MAIN IN) ..... 1.5 V
Impedance (at MAIN IN) ..... 30 kOhms
Frequency Response for Power Amp only ..... ±0.2 dB
(at 1 watt output, 20 Hz to 20 kHz)

### Preamplifier Section

Phono
- Input Overload at 1 kHz ..... 100 mV
- Equivalent Input Noise ..... 1.5 μV
- Dynamic Range ..... 96 dB
  (Dynamic Range is the ratio of input overload to equivalent input noise)
- Input Sensitivity ..... 1.8 mV
- Input Impedance ..... 47 kOhms
- Frequency Response, RIAA 20 Hz to 20 kHz ..... ±0.75 dB
- Signal-to-Noise Ratio ..... 76 dB
  (at rated output and 7.75 mV input)
- Signal-to-Noise Ratio, unweighted (DIN 45500) ..... 45 dB

High Level (Aux and Tape)
- Input Sensitivity ..... 180 mV
- Input Impedance ..... 85 kOhms
- Frequency Response (includes power amp.) ..... 10 Hz to 60 kHz ±1.25 dB
- Signal-to-Noise Ratio ..... 88 dB
  (ref. to rated output and 775 mV input)

Output Levels
- Tape Out (ref. 7.75 mV at Phono inputs) ..... 775 mV
- Pre-Out (ref. 180 mV at Aux inputs) ..... 1.5 V
  (ref. 500 mV at Aux inputs, main amp disconnected) ..... 4.2 V

Output Impedance
- Tape Out ..... 600 Ohms
- Pre-Out ..... 900 Ohms

### FM Tuner Section

Sensitivity
- IHF Usable ..... 10.8 dBf (1.9 μV)
- IHF 50 dB Quieting
  (Mono) ..... 17.3 dBf (4.0 μV)
  (Stereo) ..... 37.2 dBf ( 40 μV)
- DIN Sensitivity
  (Mono, 26 dB S/N, 300 ohm input) ..... 1.6 μV
  (Stereo, 46 dB S/N, 300 ohm input) ..... 80 μV

Quieting Slope (Mono)
- RF Input for 30 dB Quieting ..... 9.8 dBf (1.7 μV)
- Quieting at:
  20 dBf ( 5.5 μV) ..... 51 dB
  25 dBf ( 10 μV) ..... 58 dB
  40 dBf ( 55 μV) ..... 65 dB
  65 dBf (1000 μV) ..... 72 dB

| | |
|---|---|
| Quieting Slope (Stereo) | |
| Quieting at: | |
| 30 dBf ( 17 µV) | 40 dB |
| 40 dBf ( 55 µV) | 50 dB |
| 50 dBf ( 173 µV) | 56 dB |
| 65 dBf (1000 µV) | 62 dB |
| Distortion (Mono) | |
| at 50 dB Quieting, 1000 Hz | 0.6 % |
| at 65 dBf (1000 µV), 1000 Hz | 0.15% |
| Hum and Noise | |
| at 65 dBf (1000 µV) | |
| Mono | −70dB |
| Frequency Response | |
| 30 Hz to 15 kHz | |
| Mono | +0.2, −2.0 dB |
| Stereo | ±2.0 dB |
| Capture Ratio | |
| at 45 dBf ( 100 µV) | 1.5 dB |
| at 65 dBf (1000 µV) | 1.0 dB |
| Alternate Channel Selectivity | 70 dB |
| Spurious Response Rejection | 90 dB |
| Image Response Rejection | 70 dB |
| I.F. Rejection (Balanced) | 95 dB |
| A.M. Suppression | 50 dB |
| Stereo Separation | |
| 100 Hz | 42 dB |
| 1000 Hz | 45 dB |
| 10 kHz | 32 dB |
| Subcarrier Rejection | 60 dB |

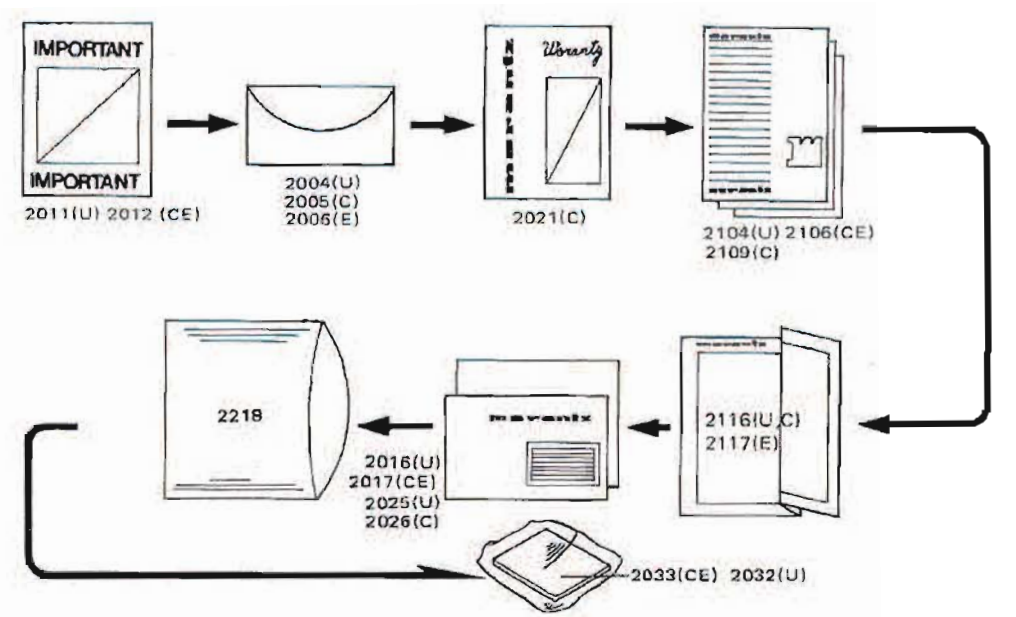
**AM Tuner Section**

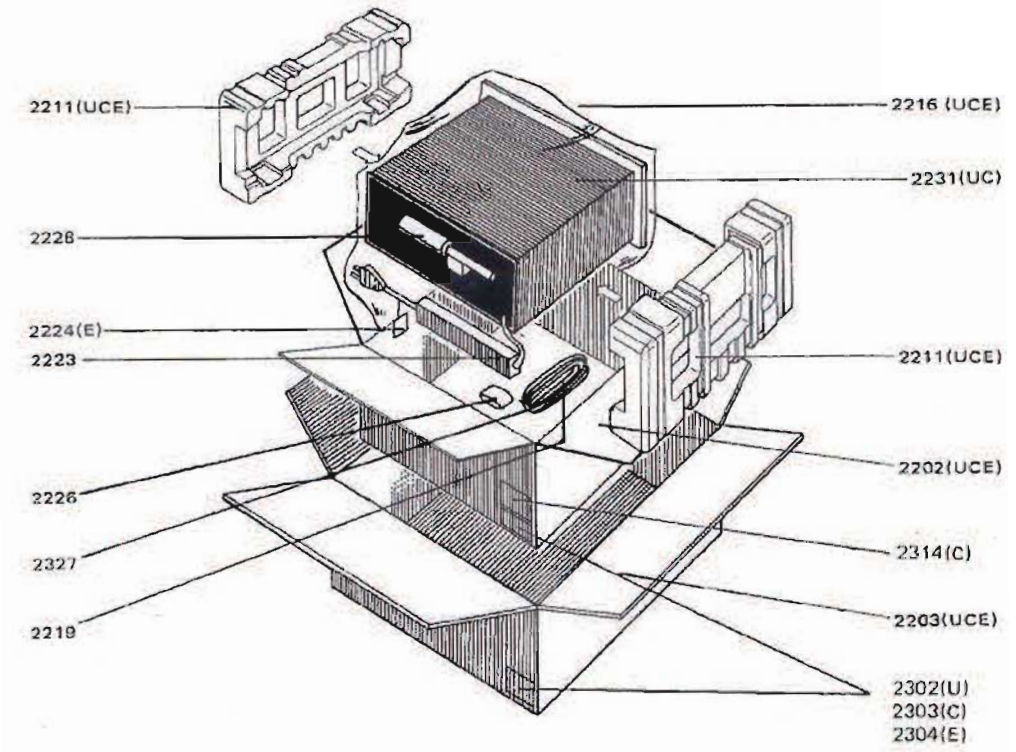
| | |
|---|---|
| IHF Usable Sensitivity | 20 µV |
| Distortion (THD), 30% Modulation | 0.6% |
| Signal-to-Noise Ratio | 49 dB |
| Frequency Response (±3 dB) | 40 Hz to 2.3 kHz |
| Alternate Channel Selectivity | 46 dB |
| Image Rejection | 45 dB |
| Spurious Response Rejection | 50 dB |
| I.F. Rejection | 40 dB |

**General**

| | |
|---|---|
| Power Requirements | 220 V ~ 50 Hz |
| (E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other versions can be converted by a qualified technician to operate on 110/120/240 V.) | |
| Power Consumption at rated output, both channels operating | 220 Watts |
| Idling Power (Volume Control at zero) | 33 Watts |
| Semiconductor Complement | |
| Integrated Circuits | 3 |
| Transistors | 45 |
| Diodes | 29 |
| Field Effect Transistors | 1 |
| Dimensions | |
| Panel Width | 440 mm (17-1/4 inches) |
| Panel Height | 137 mm ( 5-3/8 inches) |
| Depth | 365 mm (14-3/8 inches) |
| Weight | |
| Unit alone | 14 kg (30.8 lbs.) |
| Packed for shipment | 17 kg (37.4 lbs.) |

## 23. PACKING MATERIAL EXPLODED VIEW




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

## 21. PARTS LIST

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

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| A | 1 | 1 | | 2208063400 | Front Panel Assembly |
| A1 | | | 1 | 2208063410 | Front Panel Assembly |
| 0103 | 1 | 1 | 1 | 2208063012 | Escutcheon |
| 0104 | 1 | 1 | 1 | 2221401012 | Frame |
| 0105 | 1 | 1 | | 2204063023 | Escutcheon |
| 0106 | 1 | 1 | 1 | 2221158010 | Window |
| 0107 | 8 | 8 | 8 | 2221259012 | Bushing |
| 0108 | | | 1 | 2204063032 | Escutcheon |
| 0109 | 1 | 1 | 1 | 2886259010 | Bushing |
| 0111 | 1 | 1 | 1 | 2915107010 | Sheet |
| 0113 | 1 | 1 | 1 | 2915053010 | Cover |
| B | | | 1 | 2208160400 | Rear Panel Assembly |
| 0304 | | | 1 | 2208160220 | Bracket |
| 0316 | | | 1 | 2821259010 | Bushing |
| 0318 | | | 2 | 54050300R0 | T.L. Washer |
| 0320 | | | 2 | 5506030550 | T.R. Rivet |
| C | 1 | 1 | 1 | 2204159400 | Drum Assembly |
| 1703 | 1 | 1 | 1 | 2204159010 | Drum |
| 1705 | 1 | 1 | 1 | 7110168910 | Spring |
| 1707 | 2 | 2 | 2 | 51064019A9 | Set Screw |
| D | 1 | 1 | 1 | 2916257440 | Lid Assembly, Upper |
| 0210 | 1 | 1 | 1 | 2916257110 | Lid |
| 0211 | 4 | 4 | 4 | 2577118070 | Spacer |
| E | 1 | 1 | 1 | 2204257400 | Lid Assembly, Lower |
| 0215 | 1 | 1 | 1 | 2204257010 | Lid |
| 0216 | 1 | 1 | 1 | 2915120010 | Insulator |
| F | 1 | 1 | 1 | 2915103400 | Pointer Assembly |
| 1204 | 1 | 1 | 1 | 2915103012 | Pointer |
| 1205 | 1 | 1 | 1 | 2818103020 | Pointer |
| 1206 | 1 | 1 | 1 | 2915103020 | Pointer |
| 1210 | 1 | 1 | 1 | 2915267030 | Heatsink |
| M004 | 1 | 1 | 1 | IN10080300 | Lamp |
| G | 1 | 1 | 1 | 1202006420 | Hook Assembly |
| 1304 | 1 | 1 | 1 | 1202258010 | Hook |
| 1306 | 1 | 1 | 1 | 72071705D0 | String |
| H | 1 | 1 | 1 | 2853273400 | Flywheel Assembly |
| 1104 | 2 | 2 | 2 | 2577063022 | Escutcheon |
| 1105 | 1 | 1 | 1 | 2577273010 | Flywheel |
| 1106 | 1 | 1 | 1 | 2853112010 | Shaft |
| 1110 | 1 | 1 | 1 | 53110603E9 | Hexagon Nut |
| 1112 | 1 | 1 | 1 | 54020601E0 | Flat Washer |
| 0115 | 4 | 4 | 4 | 52017039J0 | H. Head Bolt |
| 0116 | 1 | 1 | 1 | 2916055010 | Collar |
| 0119 | 1 | 1 | 1 | 2221154110 | Knob |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 0120 | 8 | 8 | 8 | 2221154122 | Knob |
| 0121 | 1 | 1 | 1 | 2904154140 | Knob |
| 0122 | 2 | 2 | 2 | 2221154132 | Knob |
| 0124 | 3 | 3 | 3 | 2210154020 | Knob |
| 0127 | 3 | 3 | 3 | 2210154010 | Knob |
| 0207 | 2 | 2 | 2 | 5157041D50 | B.H. Tapped Screw, B3 x 5 |
| 0213 | 4 | 4 | 4 | 5148040S59 | B.H.M. Screw, B4 x 6 |
| 0217 | 10 | 10 | 10 | 51280408U0 | B.H. Tapped Screw, B4 x 6 |
| 0219 | 4 | 4 | 4 | 2932057010 | Leg |
| 0220 | 4 | 4 | 4 | 5157041050 | P.H. Tapped Screw, P4 x 10 |
| 0222 | 1 | 1 | 1 | 2208056010 | Buffer |
| 0303 | 1 | 1 | | 2208160212 | Bracket |
| 0307 | 2 | 2 | 1 | 1465259030 | Bushing |
| 0309 | 4 | 4 | 4 | 51280308U0 | B.H. Tapped Screw, B3 x 8 |
| 0311 | 2 | 2 | 2 | 51280308U0 | B.H. Tapped Screw, B3 x 8 |
| 0312 | 1 | 1 | 1 | 51280308U0 | B.H. Tapped Screw, B3 x 8 |
| 0314 | 10 | 10 | 10 | 51280308U0 | B.H. Tapped Screw, B3 x 8 |
| 0317 | | | 2 | 53110303A9 | Hexagon Nut |
| 0319 | | | 2 | 51060316A9 | P.H.M. Screw, P3 x 16 |
| 0322 | 1 | 1 | 1 | 62040029W0 | Lug |
| 0324 | 3 | 3 | 3 | 5110030659 | B.H.M. Screw, B3 x 6 |
| 0326 | 1 | 1 | 1 | 2819271130 | Holder |
| 0327 | 1 | 1 | 1 | 2578160522 | Bracket, K |
| 0332 | 2 | 2 | 2 | 51280312U0 | B.H. Tapped Screw, B3 x 12 |
| 0401 | 2 | 2 | 2 | 51280312U0 | B.H. Tapped Screw, B3 x 12 |
| 0404 | 1 | 1 | 1 | 62030036W0 | Lug |
| 0405 | 1 | 1 | 1 | 51280308B0 | B.H. Tapped Screw, B3 x 8 |
| 0408 | | | 2 | 5110030B59 | B.H.M. Screw, B3 x 8 |
| 0411 | 4 | 4 | 4 | 51280308U0 | B.H. Tapped Screw, B3 x 8 |
| 0503 | 1 | 1 | 1 | 2915160505 | Bracket, K |
| 0509 | 1 | 1 | 1 | 2915160060 | Bracket |
| 0510 | 2 | 2 | 2 | 5110030659 | B.H.M. Screw, B3 x 6 |
| 0512 | 1 | 1 | 1 | 2206160020 | Bracket |
| 0513 | 2 | 2 | 2 | 5110030659 | B.H.M. Screw, B3 x 6 |
| 0514 | 2 | 2 | 2 | 51060306A9 | P.H.M. Screw, P3 x 6 |
| 0516 | 1 | 1 | 1 | 2204160020 | Bracket |
| 0517 | 1 | 1 | 1 | 2204160030 | Bracket |
| 0518 | 4 | 4 | 4 | 51100406A9 | B.H.M. Screw, B4 x 6 |
| 0521 | 4 | 4 | 4 | 5110030659 | B.H.M. Screw, B3 x 6 |
| 0522 | 2 | 2 | 2 | 5110030659 | B.H.M. Screw, B3 x 6 |
| 0525 | 1 | 1 | 1 | 2577106020 | Bearing |
| 0526 | 1 | 1 | 1 | 1415118010 | Spacer |
| 0527 | 2 | 2 | 2 | 51040306A9 | F.H.M. Screw, F3 x 6 |
| 0528 | 2 | 2 | 2 | 51490306A9 | B.H.M. Screw, B3 x 6 |
| 0531 | 2 | 2 | 2 | 2871053020 | Cover |
| 0532 | 1 | 1 | 1 | 2915120040 | Insulator |
| 0603 | 2 | 2 | 2 | 5160030680 | P.H. Tapped Screw, P3 x 6 |
| 0607 | 1 | 1 | 1 | 2819120050 | Insulator |
| 0609 | 1 | 1 | 1 | 2853269010 | Protector |
| 0610 | 2 | 2 | 2 | 51280306B0 | B.H. Tapped Screw, B3 x 6 |
| 0613 | 2 | 2 | 2 | 51042608A0 | F.H.M. Screw, F2.6 x 8 |
| 0620 | 1 | 1 | 1 | 2871051020 | Guide |
| 0623 | 4 | 4 | 4 | 2886120020 | Insulator |
| 0627 | 1 | 1 | 1 | 2915262502 | Pulley, K |
| 0631 | 2 | 2 | 2 | 51100306A9 | B.H.M. Screw, B3 x 6 |
| 0702 | 1 | 1 | 1 | 2204262500 | Pulley, K |
| 0706 | 2 | 2 | 2 | 51100306A9 | B.H.M. Screw, B3 x 6 |

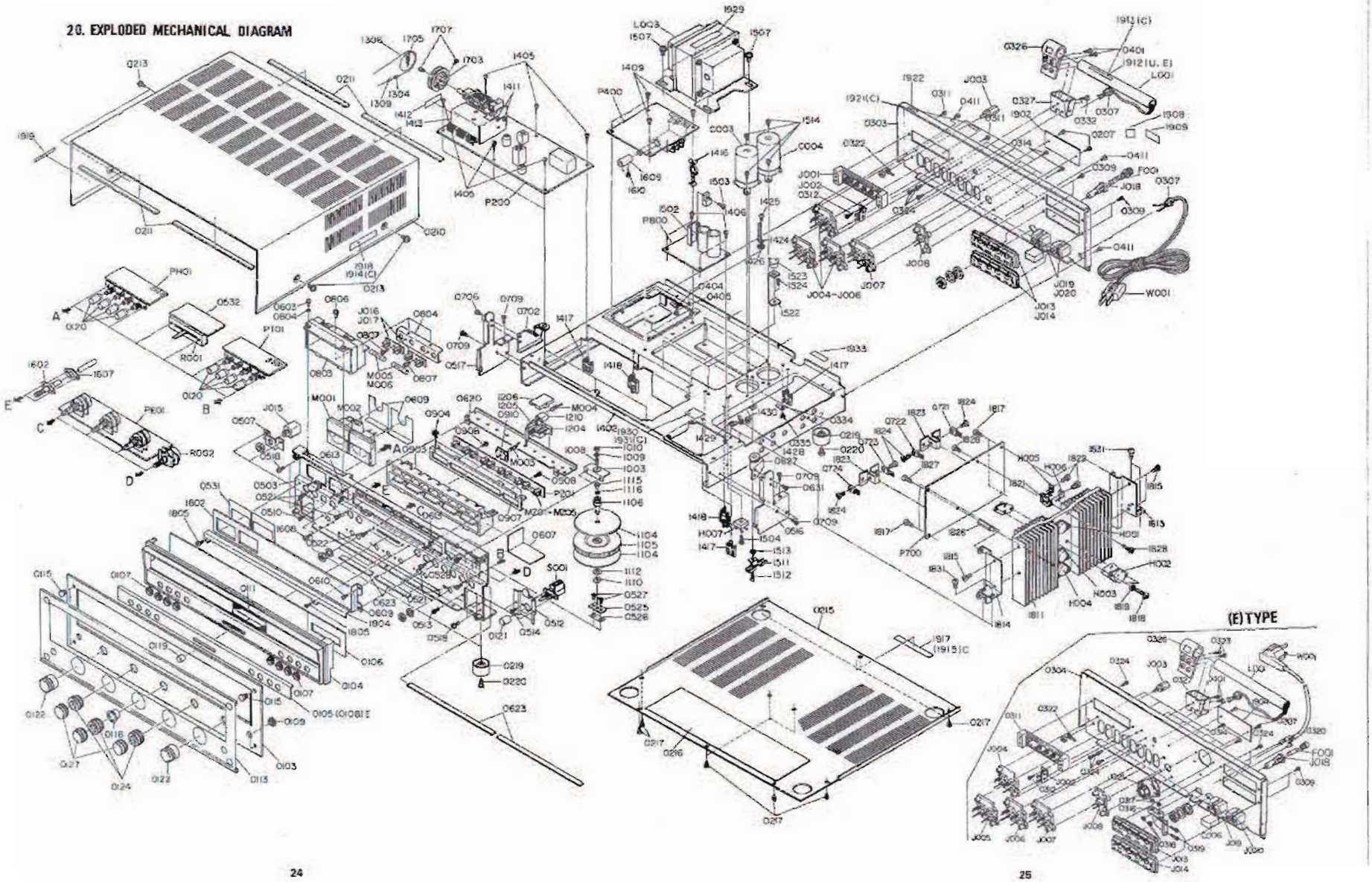


• (U) for U.S.A.
• (C) for Canada
• (E) for Europe

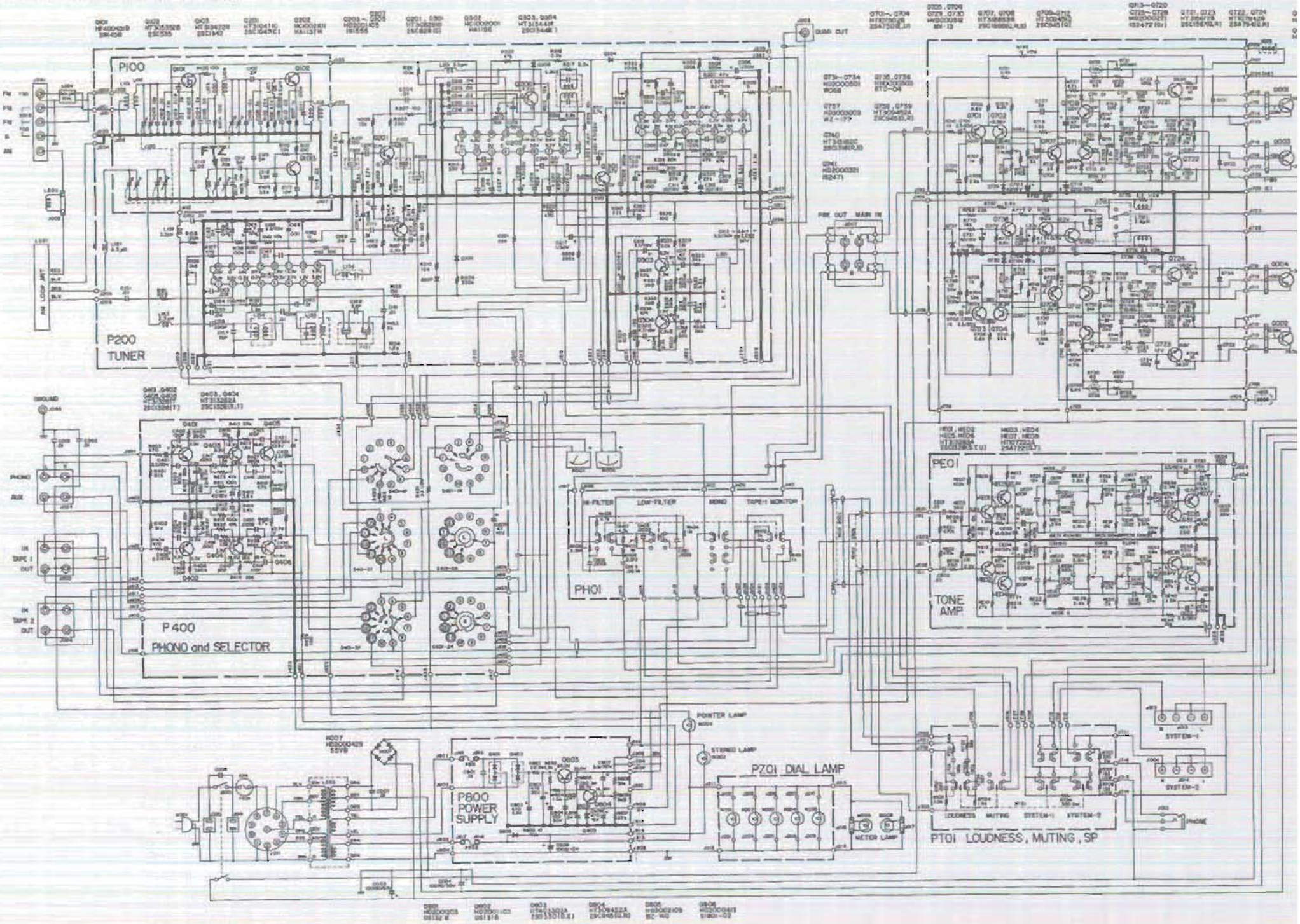
| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 0709 | 6 | 6 | 6 | 51280308B0 | B.H. Tapped Screw, B3 x 8 |
| 0803 | 1 | 1 | 1 | 2886274012 | Reflector |
| 0804 | 1 | 1 | 1 | 2886271020 | Holder |
| 0806 | 2 | 2 | 2 | 51480306A9 | B.H.M. Screw, B3 x 6 |
| 0807 | 2 | 2 | 2 | 5167030680 | P.H. Tapped Screw, P3 x 5 |
| 0809 | 2 | 2 | 2 | 2886107010 | Sheet |
| 0903 | 1 | 1 | 1 | 2871274110 | Reflector |
| 0904 | 2 | 2 | 2 | 51480306A9 | B.H.M. Screw, B3 x 6 |
| 0907 | 1 | 1 | 1 | 2871271010 | Holder |
| 0908 | 2 | 2 | 2 | 5157030580 | P.H. Tapped Screw, B3 x 5 |
| 0910 | 1 | 1 | 1 | 2874259010 | Bushing |
| 1003 | 1 | 1 | 1 | 2853108500 | Bearing, K |
| 1008 | 1 | 1 | 1 | 51640410D9 | Set Screw, C.P. |
| 1009 | 1 | 1 | 1 | 54040402N0 | Spring Washer |
| 1010 | 1 | 1 | 1 | 5311040359 | Hexagon Nut |
| 1115 | 1 | 1 | 1 | 2853112020 | Shaft |
| 1116 | 1 | 1 | 1 | 54040402N0 | Spring Washer |
| 1402 | 1 | 1 | 1 | 2204105014 | Chassis |
| 1405 | 6 | 6 | 6 | 51280308U0 | B.H. Tapped Screw, B3 x 8 |
| 1406 | 4 | 4 | 4 | 51280306U0 | B.H. Tapped Screw, B3 x 6 |
| 1407 | 4 | 4 | 4 | 51280306U0 | B.H. Tapped Screw, B3 x 6 |
| 1409 | 1 | 1 | 1 | 2204006030 | Clamper |
| 1416 | 2 | 2 | 2 | 2204006040 | Clamper |
| 1417 | 4 | 4 | 4 | 2886005020 | Clamper |
| 1418 | 3 | 3 | 3 | 2886005050 | Clamper |
| 1424 | 1 | 1 | 1 | 1382005030 | Clamper |
| 1425 | 1 | 1 | 1 | 51280306B0 | B.H. Tapped Screw, B3 x 6 |
| 1426 | 1 | 1 | 1 | 54050300R0 | T.L. Washer, OR |
| 1502 | 1 | 1 | 1 | 2204267020 | Heatsink |
| 1503 | 1 | 1 | 1 | 51100306E9 | B.H.M. Screw, B3 x 6 |
| 1504 | 1 | 1 | 1 | 5167031280 | P.H.M. Screw, P3 x 12 |
| 1507 | 4 | 4 | 4 | 51490514A9 | B.H.M. Screw, B5 x 14 |
| 1508 | 2 | 2 | 2 | 2916160070 | Bracket |
| 1511 | 1 | 1 | 1 | 2206160030 | Bracket |
| 1512 | 1 | 1 | 1 | 51280306B0 | B.H. Tapped Screw, B3 x 6 |
| 1513 | 1 | 1 | 1 | 54050300R0 | T.L. Washer, OR |
| 1514 | 4 | 4 | 4 | 51280306U0 | B.H. Tapped Screw, B3 x 6 |
| 1522 | 1 | 1 | 1 | 2927160050 | Bracket |
| 1523 | 1 | 1 | 1 | 2908259010 | Bushing |
| 1524 | 1 | 1 | 1 | 5167030680 | P.H. Tapped Screw, P3 x 6 |
| 1602 | 1 | 1 | 1 | 2204112502 | Shaft, K |
| 1607 | 1 | 1 | 1 | 2204005010 | Clamper |
| 1608 | 2 | 2 | 2 | 51100310A9 | B.H.M. Screw, B3 x 10 |
| 1609 | 1 | 1 | 1 | 2896125010 | Joint |
| 1610 | 2 | 2 | 2 | 51064019A9 | Set Screw |
| 1902 | 1 | 1 | 1 | 2204302012 | Dial |
| 1804 | 1 | 1 | 1 | 2915269012 | Protector |
| 1805 | 2 | 2 | 2 | 9128030680 | B.H. Tapped Screw, B3 x 6 |
| 1811 | 1 | 1 | 1 | 2208267010 | Heatsink |
| 1813 | 1 | 1 | 1 | 2208104012 | Retainer |
| 1814 | 1 | 1 | 1 | 2208104023 | Retainer |
| 1815 | 4 | 4 | 4 | 51280306U0 | B.H. Tapped Screw, B3 x 6 |
| 1817 | 4 | 4 | 4 | 5110030658 | B.H.M. Screw, B3 x 6 |
| 1818 | 8 | 8 | 8 | 5110031489 | B.H.M. Screw, B3 x 14 |
| 1819 | 8 | 8 | 8 | 54040302N0 | Spring Washer |
| 1821 | 1 | 1 | 1 | 2208008020 | Clamper |
| 1822 | 2 | 2 | 2 | 51100306A9 | B.H.M. Screw, B3 x 6 |
| 1823 | 2 | 2 | 2 | 2912267022 | Heatsink |
| 1824 | 4 | 4 | 4 | 5110030659 | B.H.M. Screw, B3 x 6 |
| 1826 | 1 | 1 | 1 | 2208101010 | Support |

| REF. DESIG. | Q'TY U | C | E | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1827 | 1 | 1 | 1 | 5110030649 | B.H.M. Screw, B3 x 8 |
| 1828 | 2 | 2 | 2 | 5110030649 | B.H.M. Screw, B3 x 8 |
| 1831 | 4 | 4 | 4 | 5128030683 | B.H. Tapped Screw, B3 x 6 |
| 1902 | 1 | | | 2208265010 | Indicator |
| 1903 | | 1 | | 2208265020 | Indicator |
| 1904 | | | 1 | 2208265030 | Indicator |
| 1912 | 1 | 1 | 1 | 2506265060 | Label, Do not use as Handle |
| 1913 | | 1 | | 2911861170 | Label, Do not use as handle. |
| 1915 | | 1 | | 2911861110 | Label, UL Caution |
| 1914 | | 1 | | 2911861140 | Label, Do not remove cover. See marking on bottom. |
| 1917 | 1 | 1 | 1 | 2578861010 | Label, UL Caution |
| 1918 | 1 | 1 | 1 | 2932861010 | Label, Do not remove cover. See marking on bottom. |
| 1919 | 1 | | | 2818861010 | Label, FTC |
| 1921 | | 1 | | 9510911010 | Label, LL |
| 1922 | 1 | | | 9510911020 | Label, UL Factory |
| 1923 | 1 | | | 9511101020 | Label, UL |
| 1909 | | 1 | | 2911861010 | Label |
| 1908 | | 1 | | 2911861240 | Label |
| 1929 | 1 | 1 | 1 | 2886861010 | Label, Marantz |
| 1930 | 1 | | 1 | 9510221010 | Label, Fuse |
| 1931 | | 1 | | 2911861150 | Label, Fuse |
| 1933 | | 1 | | 95106 01050 | Label, 5A, 250V |
| 2005 | | 1 | | 2918813012 | Envelope |
| 2006 | | | 1 | 2818813010 | Envelope |
| 2011 | 1 | | | 2577851020 | Instructions, Important |
| 2012 | | 1 | 1 | 2818851120 | Instructions, Important |
| 2016 | 1 | | | 2577854012 | Guarantee Card |
| 2017 | | 1 | 1 | 9630000180 | Guarantee Card |
| 2021 | | 1 | | 9650000050 | S. Station Card |
| 2025 | 1 | | | 2818854022 | Guarantee Card |
| 2026 | | 1 | | 2818854040 | Guarantee Card |
| 2032 | 1 | | | 2818851040 | Instructions, Packing |
| 2033 | | 1 | 1 | 2818851140 | Instructions, Packing |
| 2104 | 1 | | | 2208851010 | Instructions, Set |
| 2106 | | 1 | 1 | 2208851310 | Instructions, Set |
| 2109 | | 1 | | 2886851100 | Instructions, Flysheet |
| 2116 | 1 | 1 | | 2208856010 | Schematic |
| 2117 | | | 1 | 2208856020 | Schematic |
| 2202 | 1 | 1 | 1 | 2208801010 | Packing Case, Inner |
| 2203 | 1 | 1 | 1 | 2208801110 | Packing Case, Outer |
| 2211 | 2 | 2 | 2 | 2204609010 | Cushion |
| 2216 | 1 | 1 | 1 | 9014838380 | Polyethylene Bag |
| 2218 | 1 | 1 | 1 | 9013025010 | Polyethylene Bag, Printed Matter |
| 2219 | 1 | 1 | 1 | 9013025010 | Polyethylene Bag, Accessories |
| 2223 | 1 | 1 | 1 | 2864804010 | Sleeve |
| 2224 | | | 1 | 9580000042 | Hang Tag |
| 2226 | 1 | 1 | 1 | 2731821010 | Silicagel |
| 2228 | 1 | 1 | 1 | 2819056010 | Buffer |
| 2231 | 1 | 1 | 1 | 2918107130 | Sheet |
| 2302 | 4 | | | 9522815010 | Serial No. Card |
| 2303 | | 4 | | 9523015120 | Serial No. Card |
| 2304 | | | 4 | 9523015110 | Serial No. Card |
| 2314 | | 2 | | 9510901020 | Label |
| 2327 | 1 | 1 | 1 | ZA02000070 | Ext. Antenna |
| | | | | | **P200 TUNER BOARD** |
| P200 | 1 | 1 | 1 | YD2204201G | P.W. Board |
| | 1 | 1 | | ZZ2208211G | P.W. Board Assembly |
| | | | 1 | ZZ2208801G | P.W. Board Assembly |
| P208 | 8 | 8 | 8 | 2933118020 | Spacer |
| P211 | 12 | 12 | 12 | 75061251P0 | Jumper |

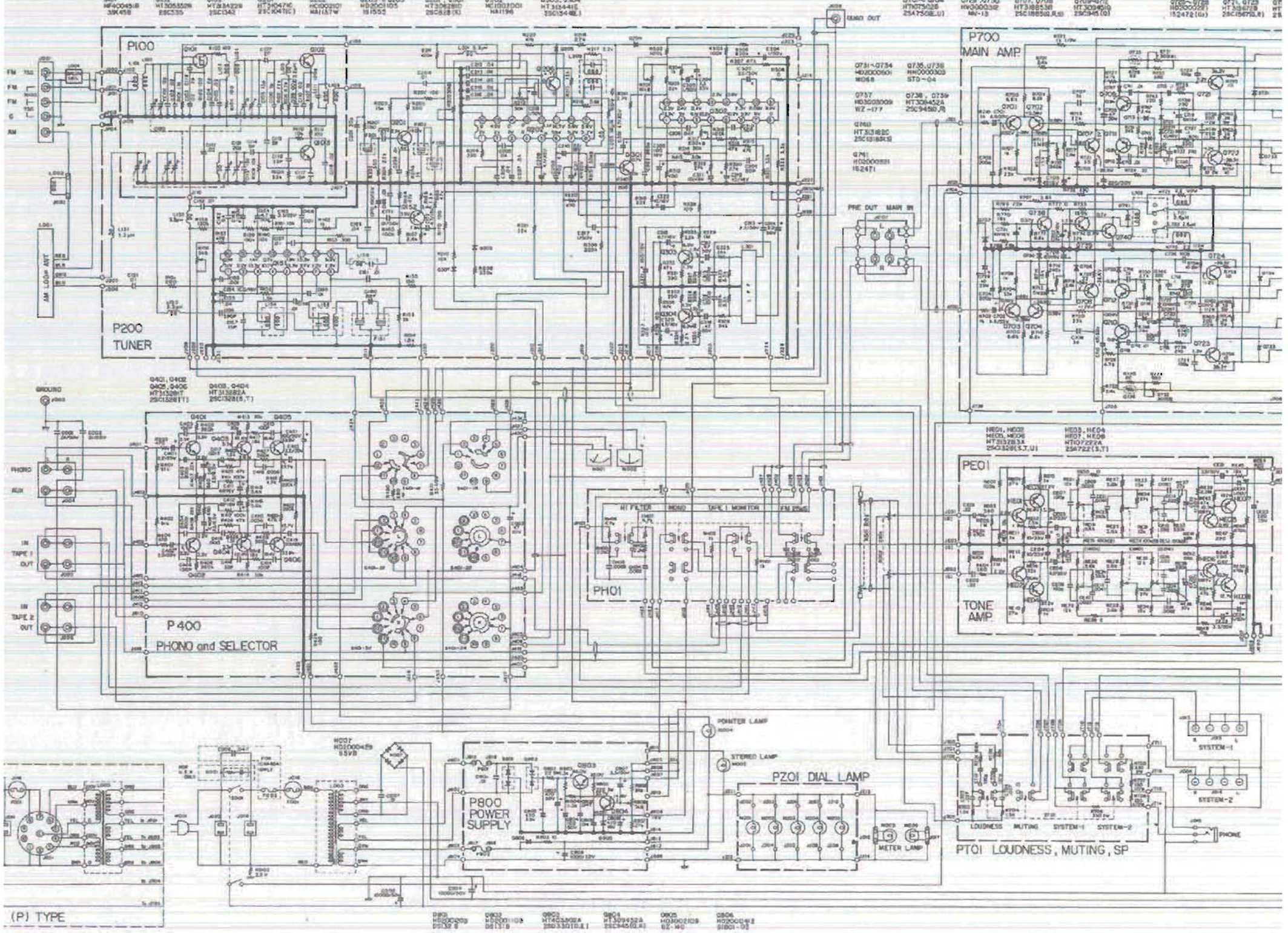
## 20. EXPLODED MECHANICAL DIAGRAM



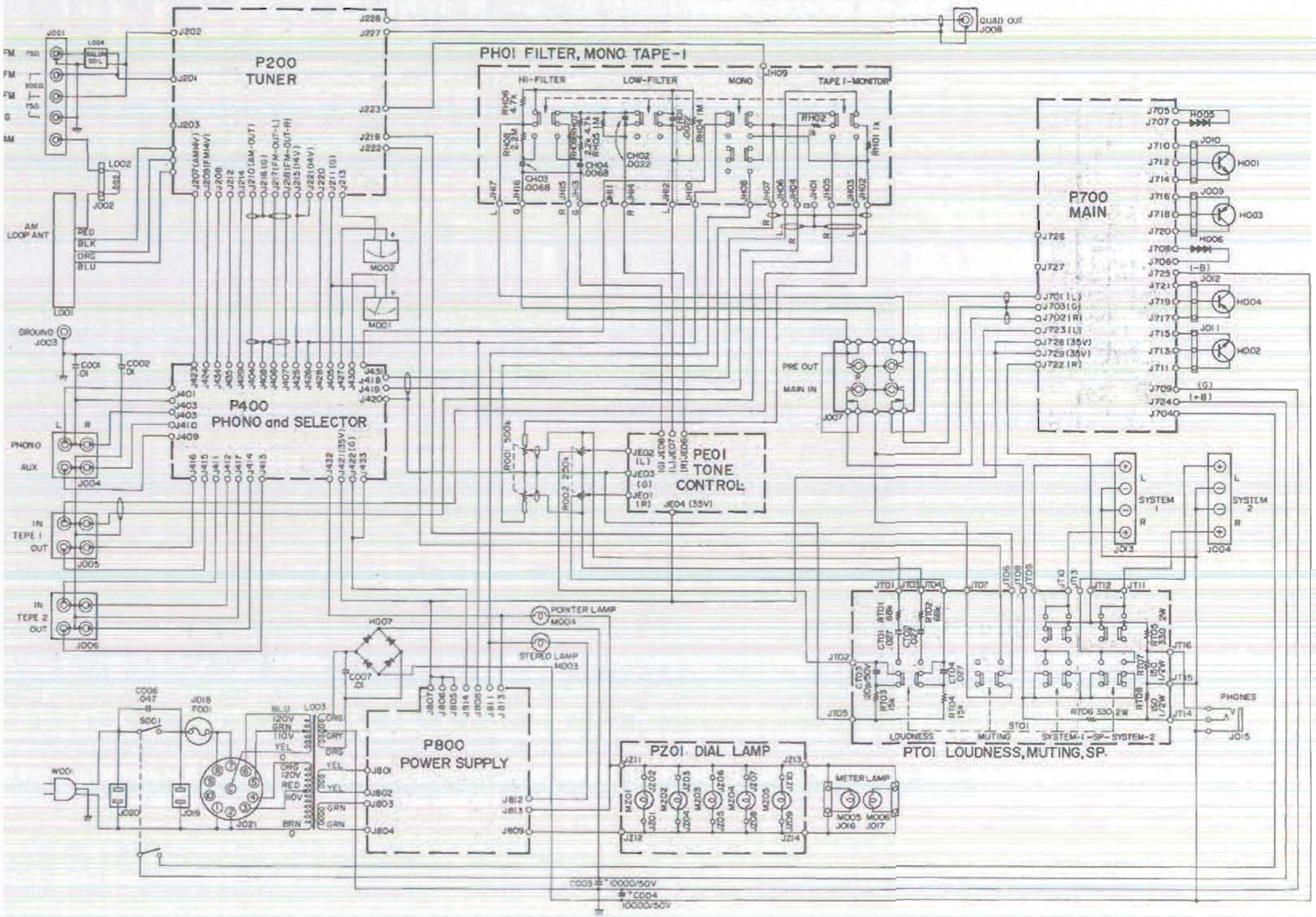
## 19. SCHEMATIC DIAGRAM (for Europe)

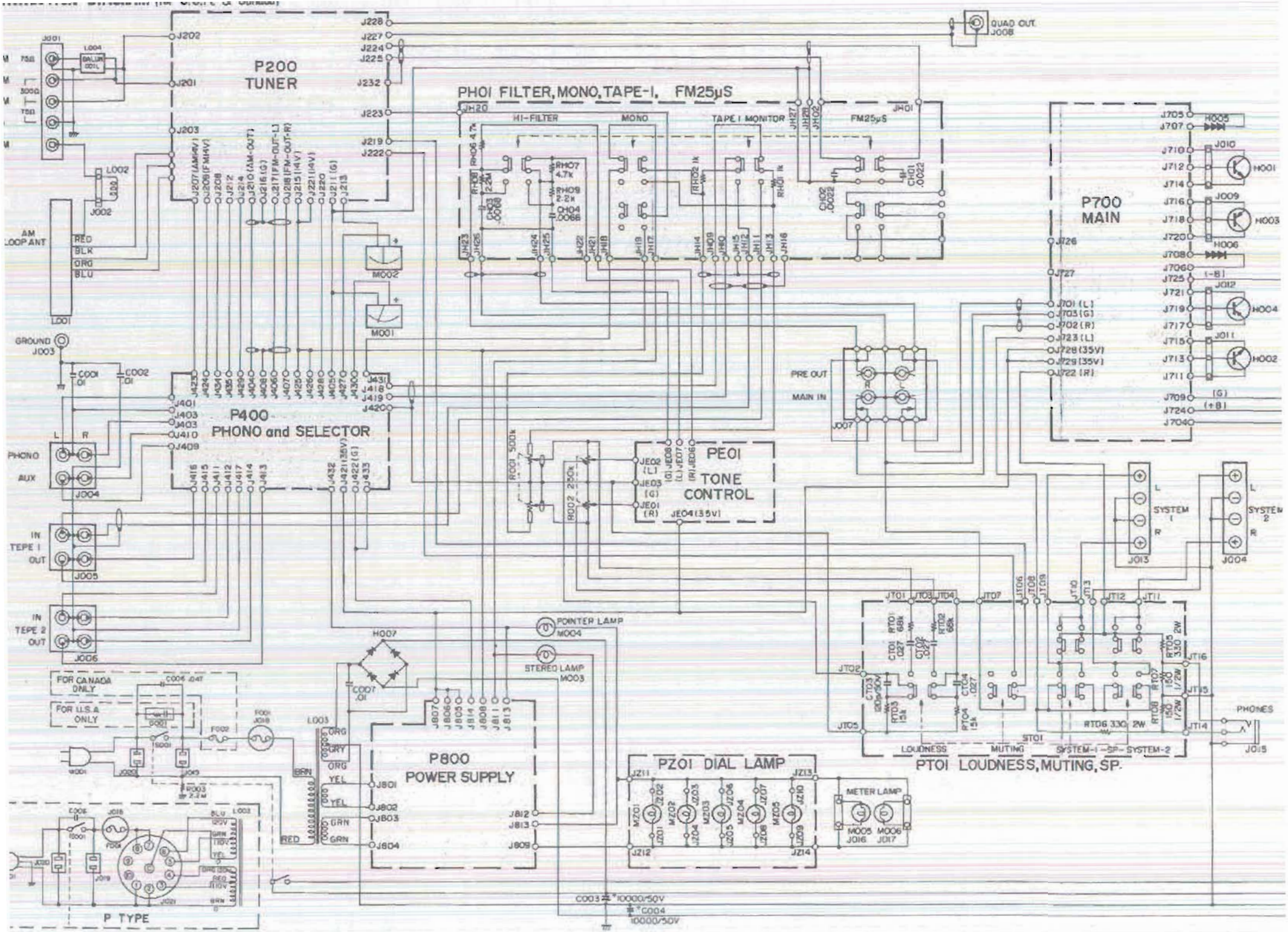


# IC DIAGRAM (for U.S.A. & Canada)



## CONNECTION DIAGRAM (for Europe)




P200
TUNER
PH01 FILTER, MONO, TAPE-1, FM25μS
HI-FILTER
MONO
TAPE I MONITOR
FM25μS
P700
MAIN
P400
PHONO and SELECTOR
PE01
TONE
CONTROL
P800
POWER SUPPLY
PZ01 DIAL LAMP
PT01 LOUDNESS, MUTING, SP.
QUAD OUT
J008
GROUND
J003
AM
LOOP ANT
PHONO
AUX
IN
TEPE 1
OUT
IN
TEPE 2
OUT
PRE OUT
MAIN IN
J007
SYSTEM
1
SYSTEM
2
PHONES
J015
POINTER LAMP
M004
STEREO LAMP
M003
METER LAMP
M005 M006
J016 J017
FOR CANADA
ONLY
FOR U.S.A.
ONLY
P TYPE
LOUDNESS
MUTING
SYSTEM-1
SP-
SYSTEM-2

50

# SERVICE MANUAL

marantz

model 2252

*Stereophonic Receiver*