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SERVICE MANUAL 2225L

marantz

model 2225L

Stereophonic Receiver

marantz

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INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2225L 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 be usually be obtained through local suppliers.

1. SERVICE NOTES

As can be seen from the circuit diagram, the chassis of Model 2225L 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 & AM (LW, MW) Tuner	mounted on P.W.B. P100
2.	FM IF Amplifier, Detector, Muting Control	mounted on P.W.B. P200
3.	MPX Stereo Decoding Amplifier	mounted on P.W.B. P300
4.	Phono Amplifier	mounted on P.W.B. P400
5.	Tone Amplifier	mounted on P.W.B. PE01
6.	Tape Monitor, Mono, Low and High Filter Switch Unit	mounted on P.W.B. PH01
7.	Loudness, Muting, Main and Remote Switch Unit	mounted on P.W.B. PT01
8.	Power Amplifier	mounted on P.W.B. P700
9.	Power Supply	mounted on P.W.B. P800
10.	Dial Lamp Unit	mounted on P.W.B. PZ01

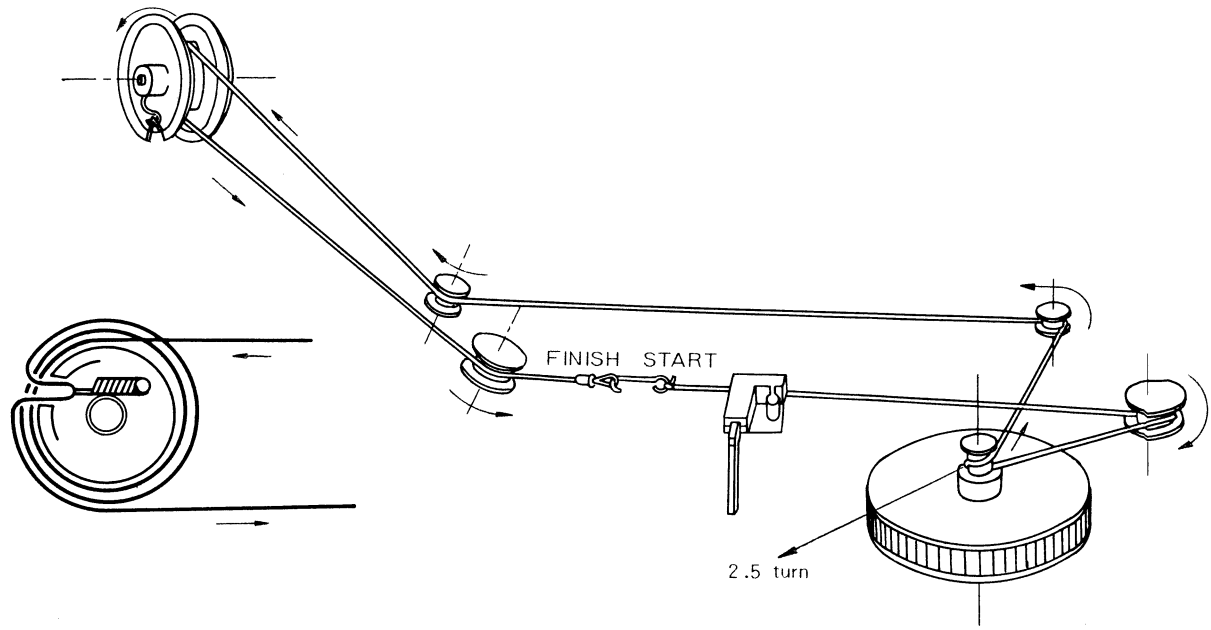

Figure 1. Dial Stringing

2. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 2225L 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	Less than 0.3% distortion	Signal source for FM alignment
Stereo Modulator	Less than 0.3% distortion	Stereo separation alignment and trouble shooting
Audio Oscillator	Weston Model CVO-100P, less than 0.02% residual distortion is required.	Sinewave and squarewave signal source.
Frequency Counter		MPX Oscillator adjustment(VCO)
Oscilloscope	High sensitivity with DC horizontal and vertical amplifiers.	Waveform analysis and trouble shooting, and ASO alignament.
VTVM	With AC, DC, RF range	Voltage measurements.
Circuit Tester		Trouble shooting
AC Wattmeter	Simpson, Model 390	Monitors primary power to amplifier.
AC Ammeter	Commercial Grade(1-10A)	Monitors amplifier output under short circuit condition.
Line Voltmeter	Commercial Grade (0-150V AC)	Monitors potential of primary power to amplifier.
Variable Autotransformer (0-140V AC, 10 amps.)	Powerstat, Model 116B	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%, 100 W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output Load (4 ohms, 0.5%, 100 W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.

3. AM ALIGNMENT PROCEDURE

3.1 AM (LW, MW) IF Alignment

1. Connect a sweep generator to the J106 and an alignment scope to the resistor R120 (outside).
2. Rotate each core of IF transformers L112 and L113 for the maximum height and flat top symmetrical response.

3.2 LW Frequency Range and Tracking Alignment

1. Set LW signal generator to 145 kHz. Turn the tuning capacitor fully close (place the tuning pointer at the low end) and adjust the oscillator coil L110 for maximum audio output.
2. Set the signal generator to 380 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer C136 for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 170 kHz, tune the receiver to the same frequency and adjust a slug core of LW ferrite rod antenna and RF coil L108 for maximum output.
5. Set the generator to 350 kHz and tune the receiver to the same frequency and adjust both trimming capacitor (C124 and C129) of antenna and RF tuned circuit for maximum output.
6. Repeat procedures 4 and 5 until no further adjustment is necessary.

3.3 MW Frequency Range and Tracking Alignment

1. Set MW signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L111 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 C139 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 MW ferrite rod antenna and RF coil L109 for maximum output.
5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust both trimming capacitor (C125 and C130) of antenna and RF tuned circuit 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.

4. 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 MHz and provide about 3 to 5 μV. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L104 to obtain maximum audio output.
3. Set the FM SG to 109 MHz and provide about 3 to 5 μV. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C118 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 antenna coil L101, RF coil L102 and L103 and IF transformer L105 for minimum audio distortion.

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 minimum distortion.
7. Repeat steps 5 and 6 until no further adjustment is necessary.
8. Connect a DC VTVM with 1 V range selected to the resistor R237 (inside) and adjust the secondary core (black) of discriminator transformer L201 so that no voltage reading is obtained on the VTVM at no signal. Next set the FM SG to 98 MHz and increase the output level 1 kμV, then tune the receiver to the same frequency so that no deflection is obtained on the VTVM. Adjust primary core (pink) of L201 for minimum distortion.

5. 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 R312 (point C) and adjust R304 so that the frequency counter may precisely read 19 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 R303 for maximum and same separation in both channels.

6. MUTING THRESHOLD ADJUSTMENT

Set the FM SG output to provide 12.5 μV (IHF) at 98 MHz and tune receiver to the same frequency. Adjust the trimming resistor R253 for the threshold level of 12.5 μV. (During this adjustment turn the MUTING pushswitch "on".)

7. POWER AMPLIFIER ADJUSTMENT

Connect a VTVM between J712(+) and J718(-) and adjust the trimming resistor R733 until the VTVM reads 20 mV DC, and next, connect a VTVM between J723 and J722 (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 J713(+) and J719(-) and adjust the R734 for the same reading, and connect the VTVM between J724 and J722 and adjust the R712 for the same reading. Do over again.

8. POWER SUPPLY ADJUSTMENT

Connect a VTVM between J812(+) and J811(-) and adjust R808 until the VTVM reads 35.0 V under no signal condition.

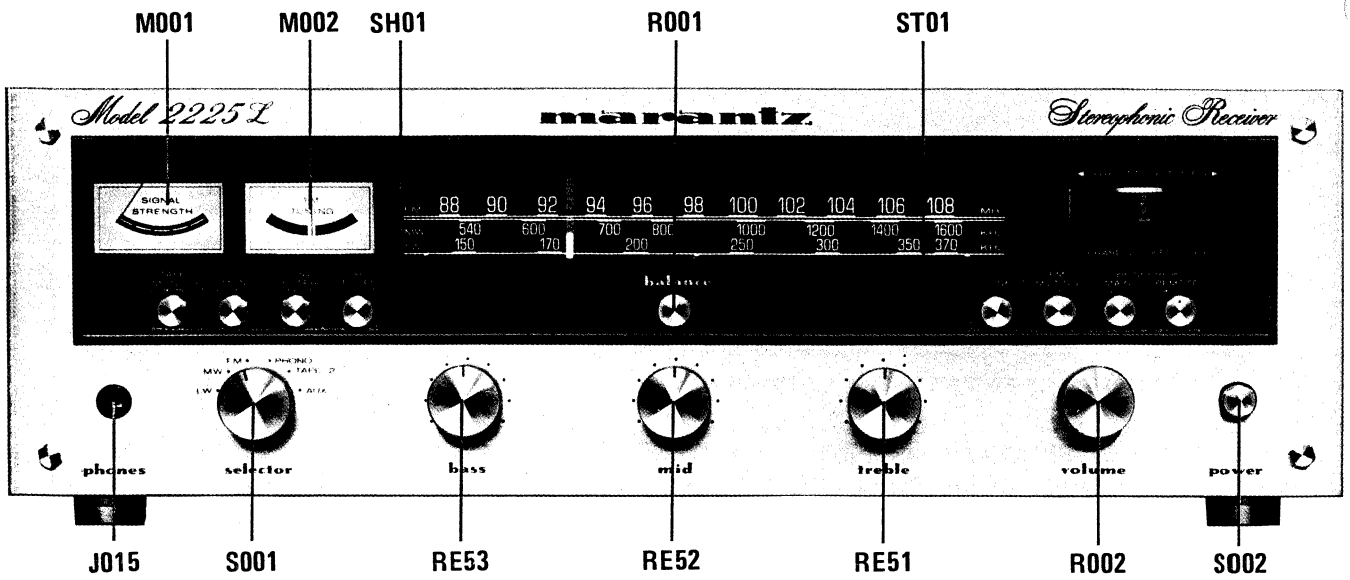

Figure 2. Front Panel Adjustments and Component Locations

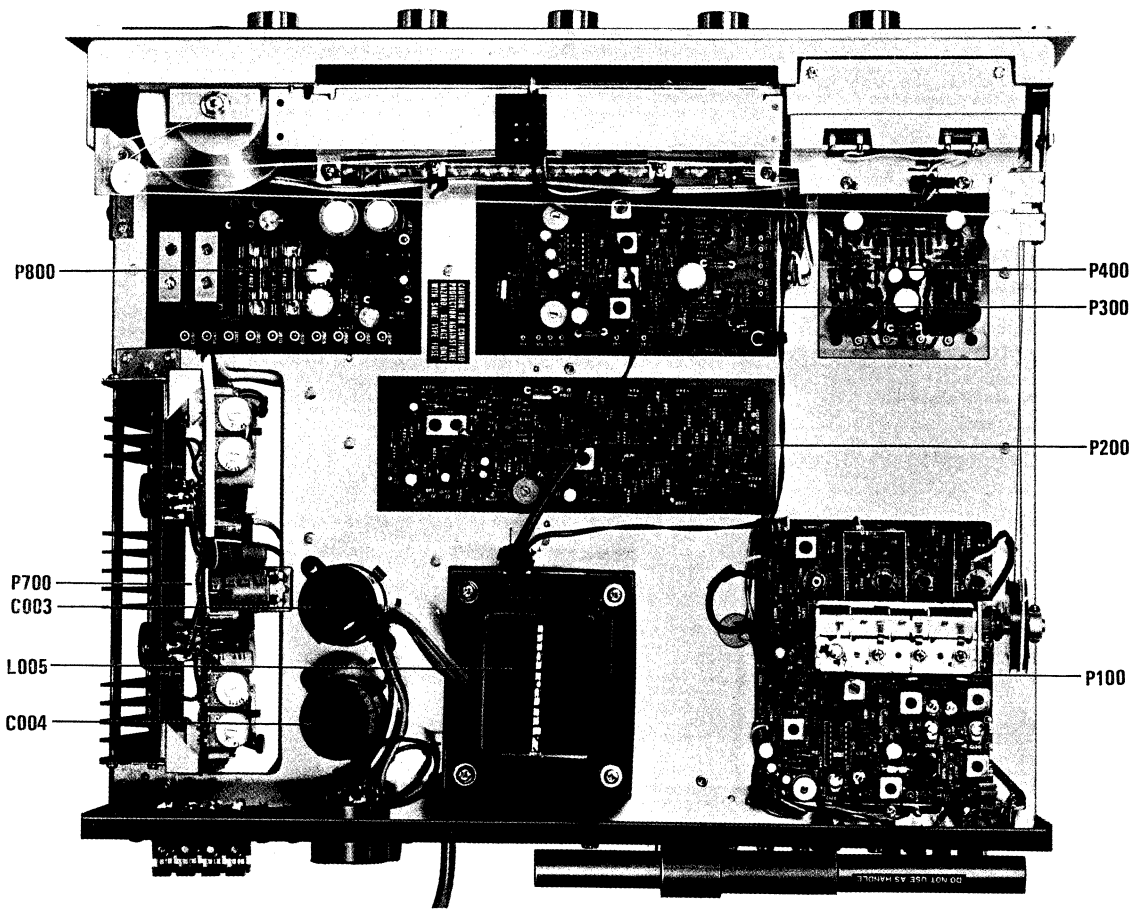

Figure 3. Main Chassis Component Locations (Top View)

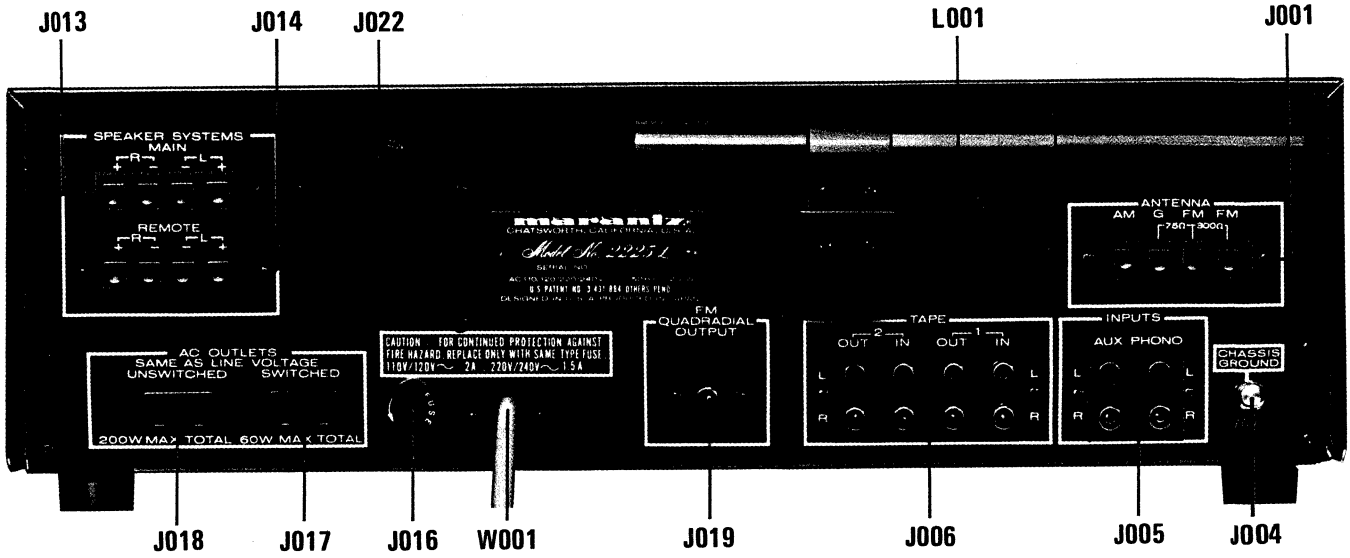

Figure 4. Rear Panel Adjustment and Component Locations

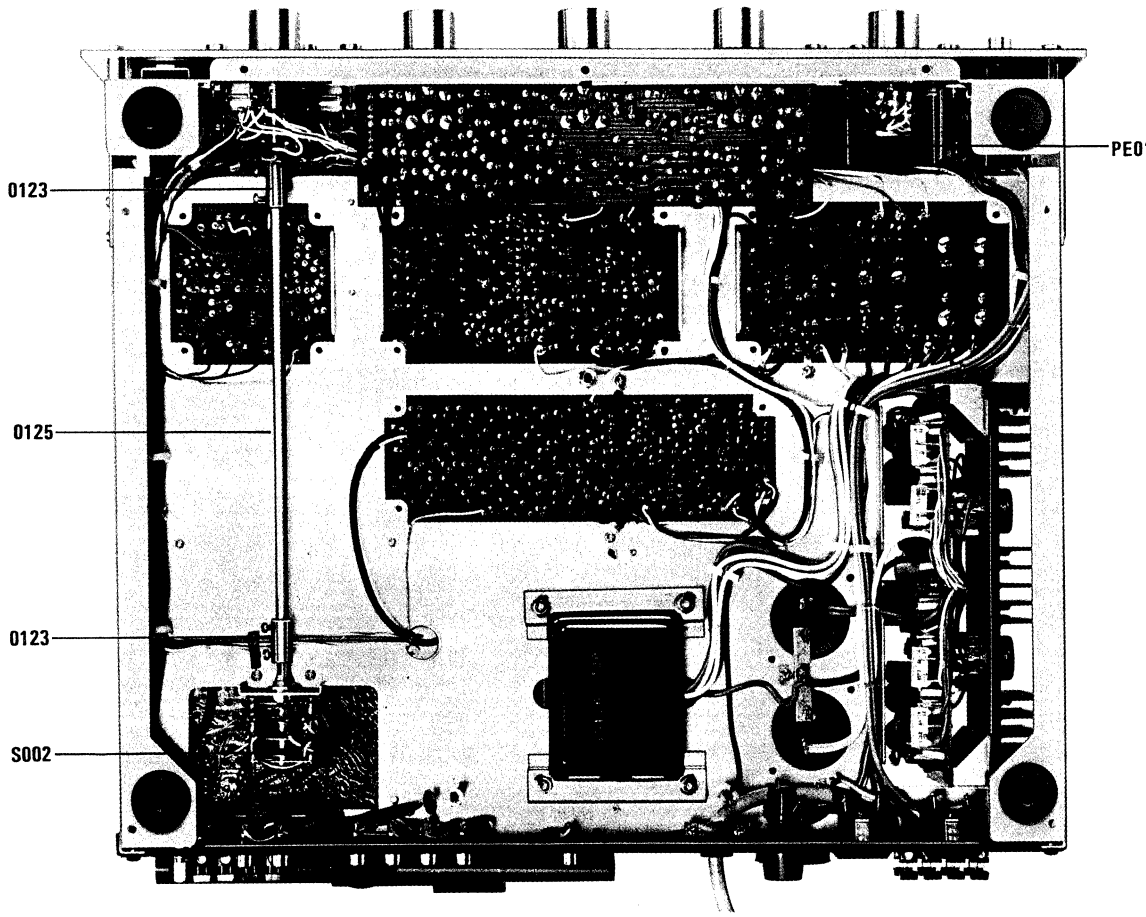

Figure 5. Main Chassis Component Locations (Bottom View)

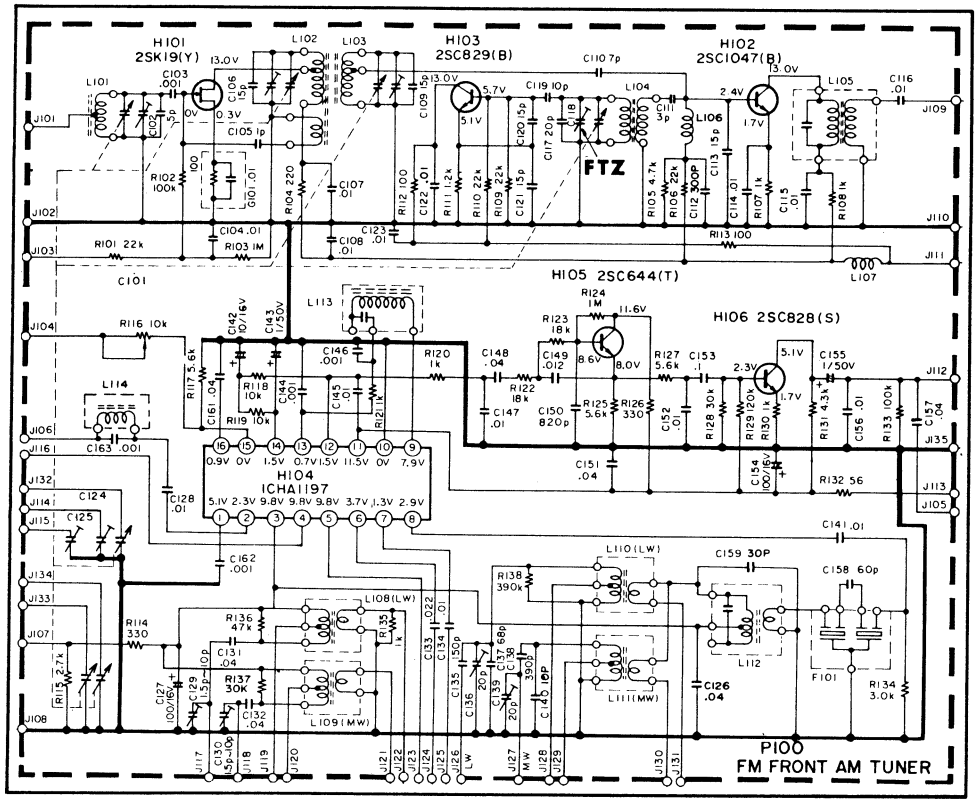

Figure 6. FM AM Front End Assembly (P100) Schematic Diagram

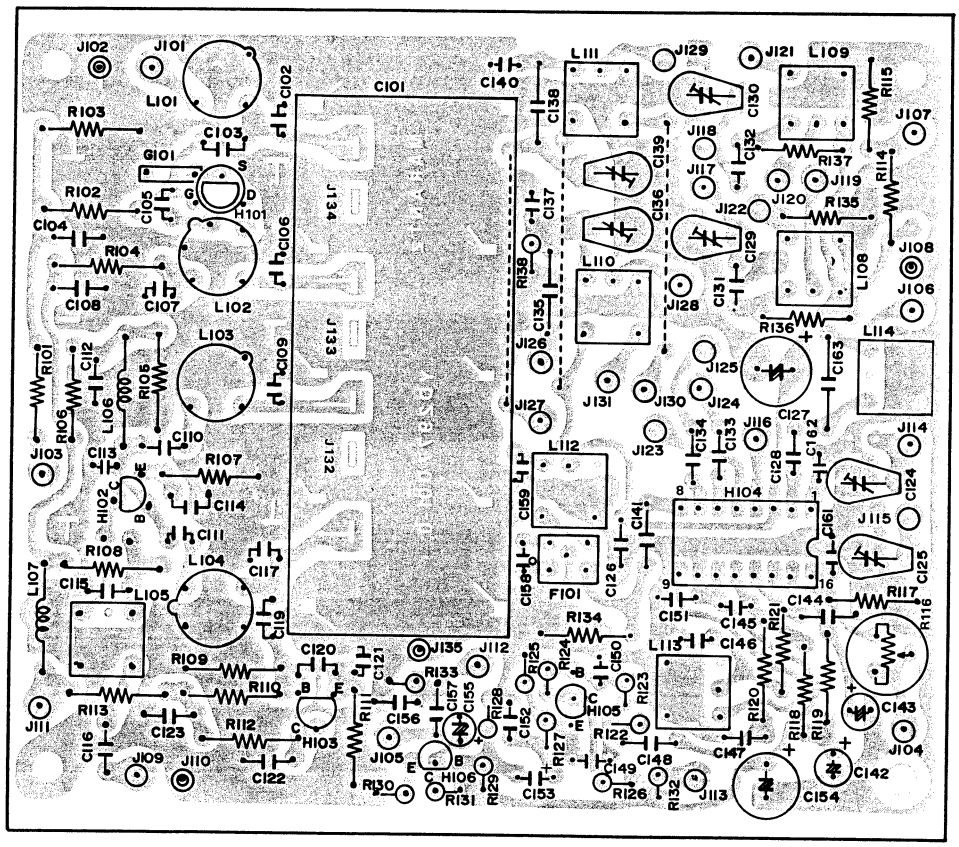

Figure 7. FM AM Front End Assembly (P100) Component Locations

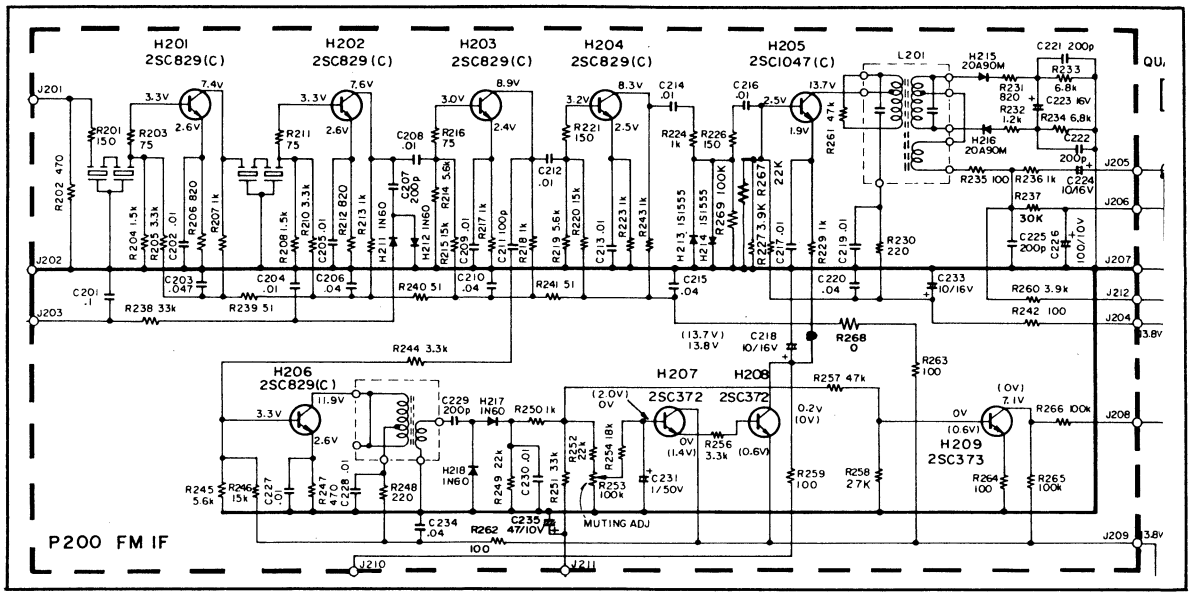

Figure 8. FM IF Amplifier, Detector, Muting Control and Meter Amplifier Unit Assembly (P200) Schematic Diagram

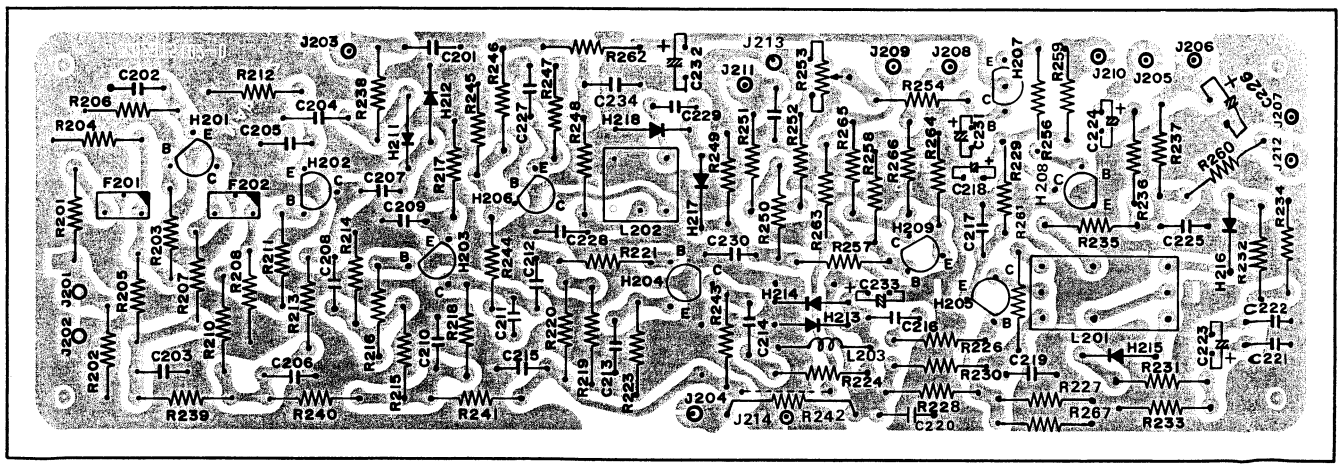

Figure 9. FM IF Amplifier, Detector, Muting Control and Meter Amplifier Unit Assembly (P200) Component Locations

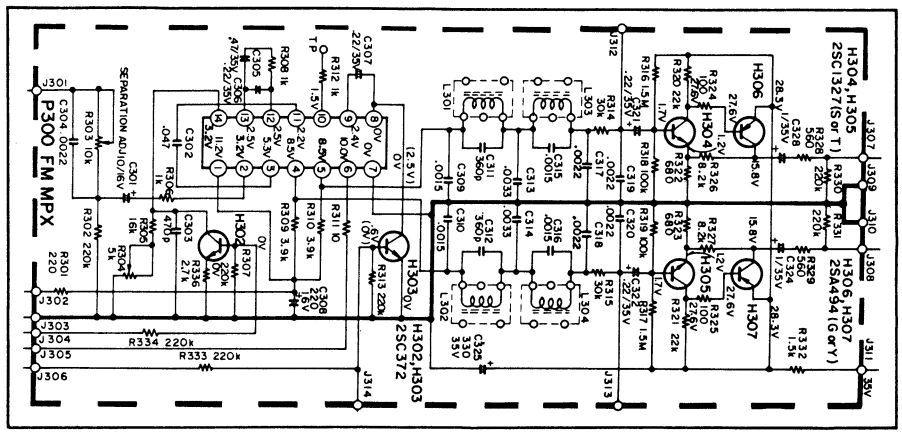

Figure 10. FM MPX Stereo Decoding Amplifier Assembly (P300) Schematic Diagram

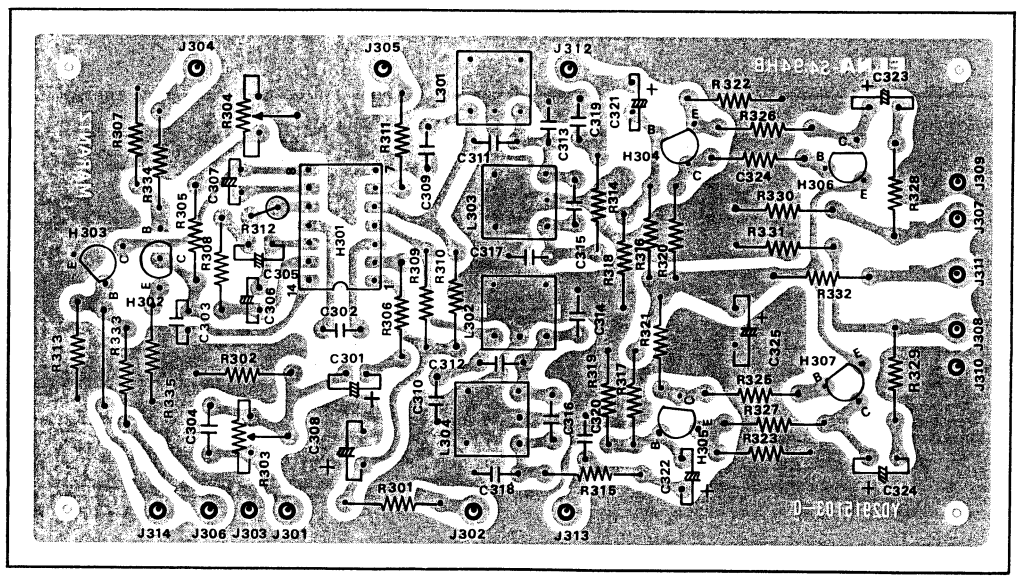

Figure 11. FM MPX Stereo Decoding Amplifier Assembly (P300) Component Locations

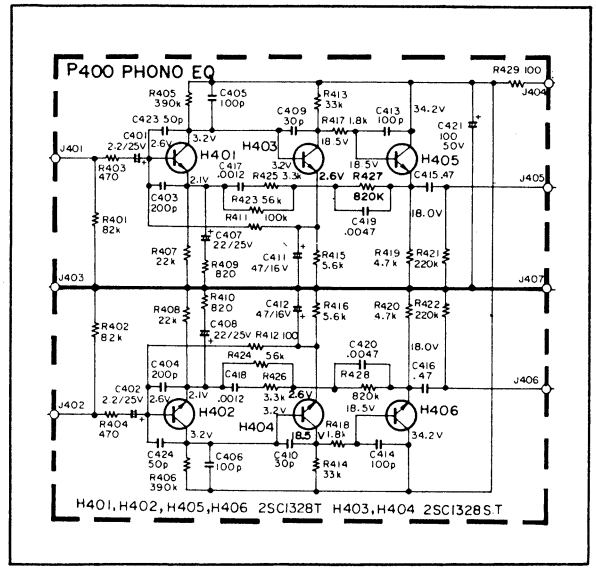

Figure 12. EQL. Amplifier Assembly (P400) Schematic Diagram

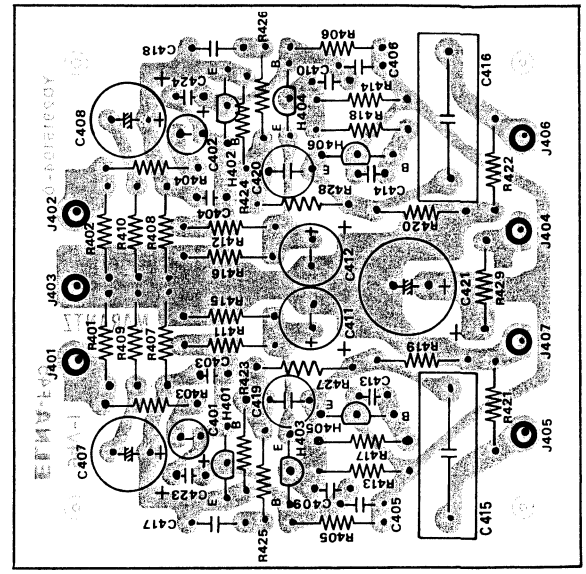

Figure 13. EQL. Amplifier Assembly (P400) Component Locations

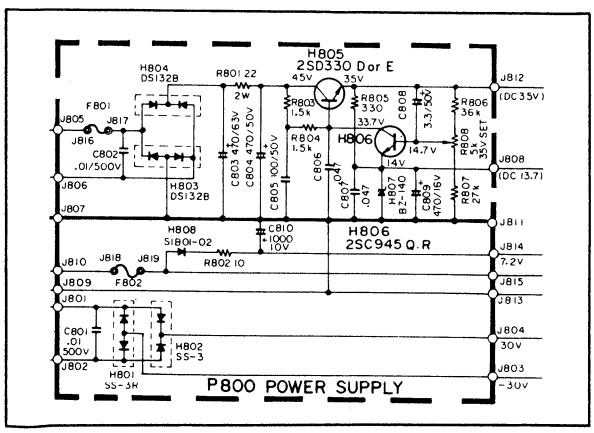

Figure 14. Power Supply Assembly (P800) Schematic Diagram

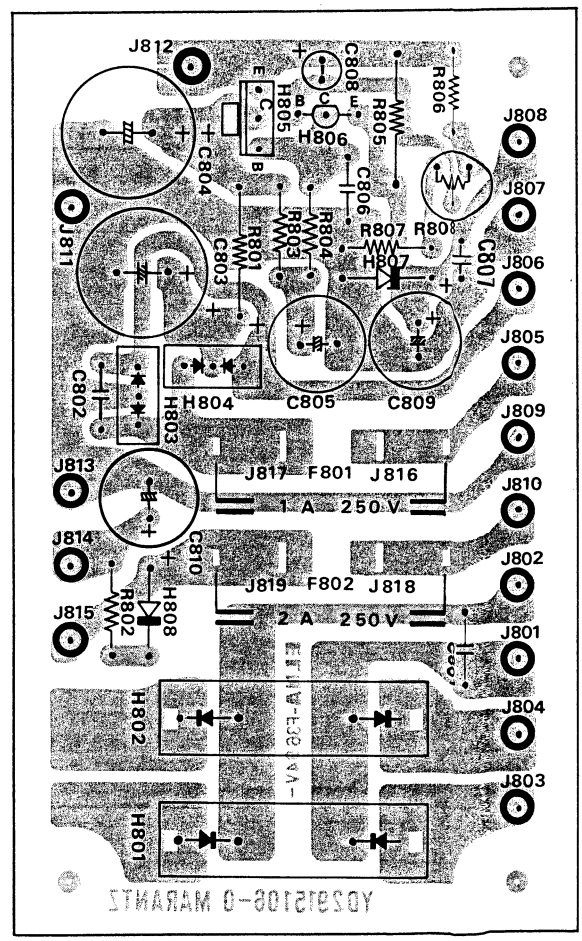

Figure 15. Power Supply Assembly (P800) Component Locations

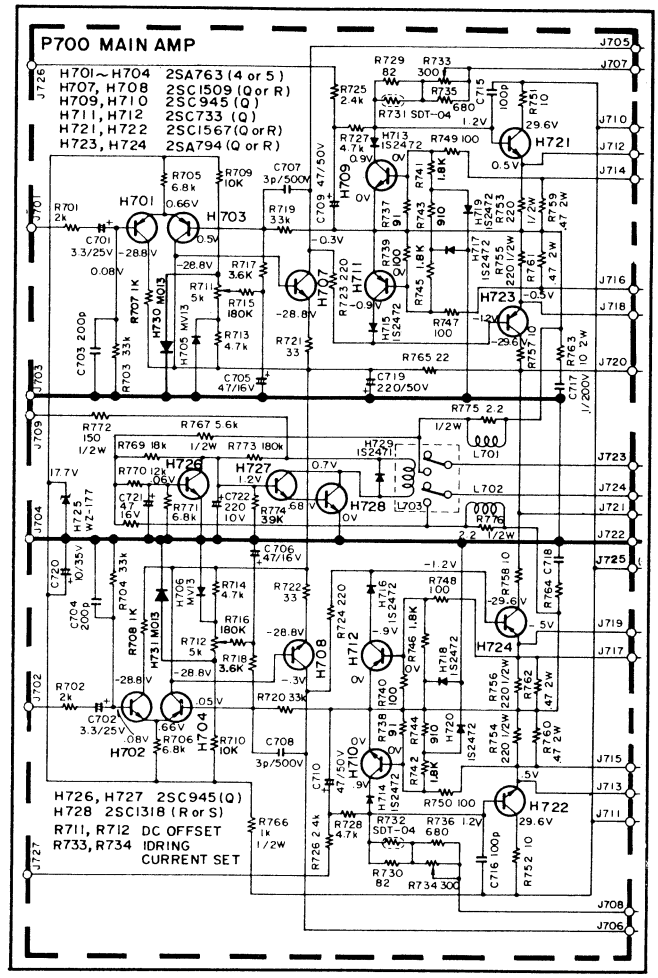

Figure 16. Main Amplifier Assembly (P700) Schematic Diagram

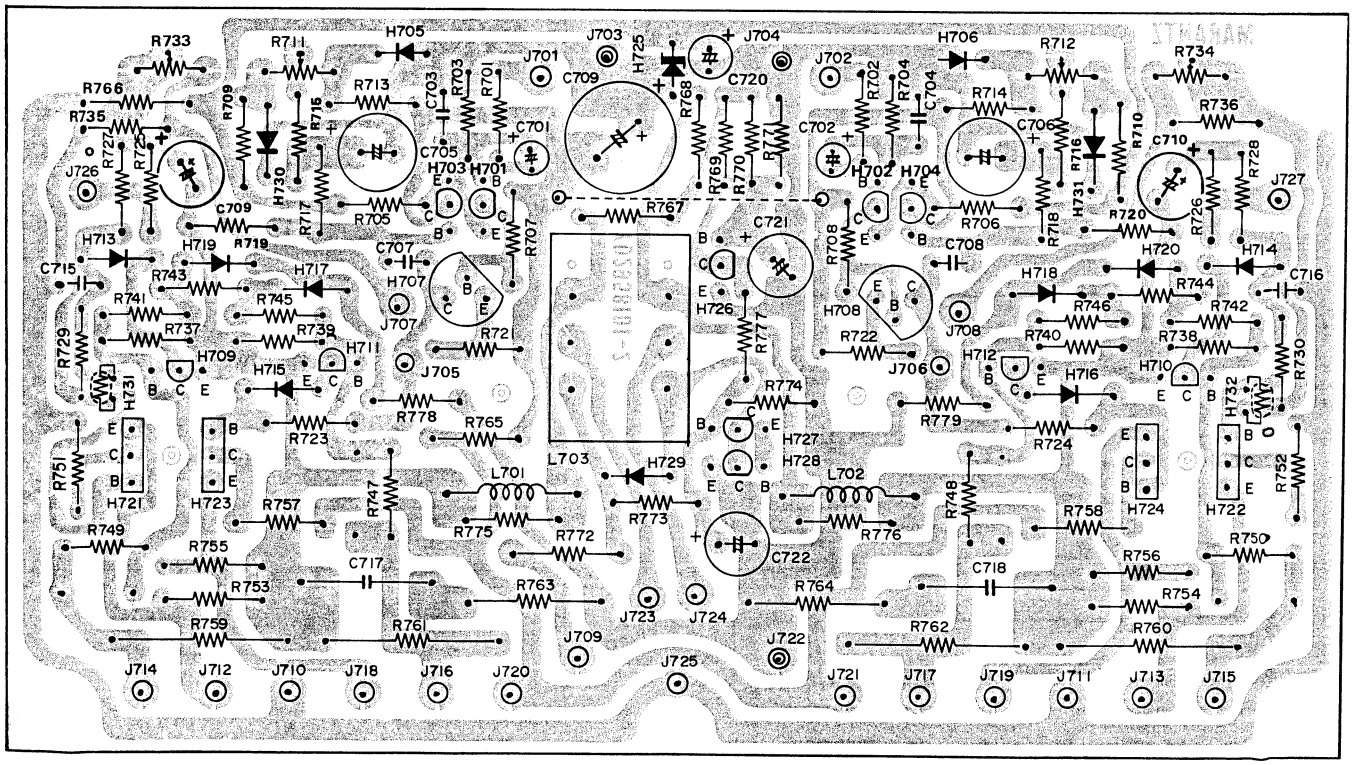

Figure 17. Main Amplifier Assembly (P700) Component Locations

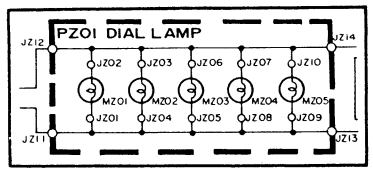

Figure 18. Dial Lamp Assembly (PZ01) Schematic Diagram

Figure 19. Dial Lamp Assembly (PZ01) Component Locations

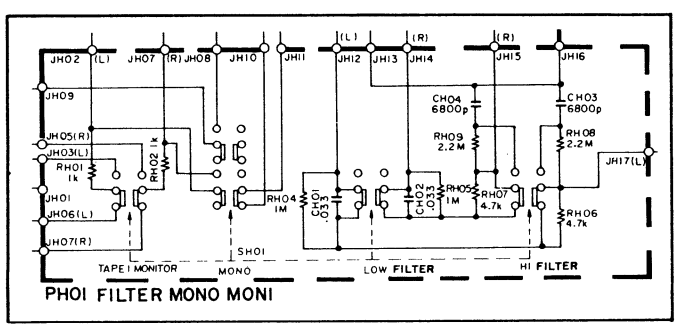

Figure 20. Filter Assembly (PH01) Schematic Diagram

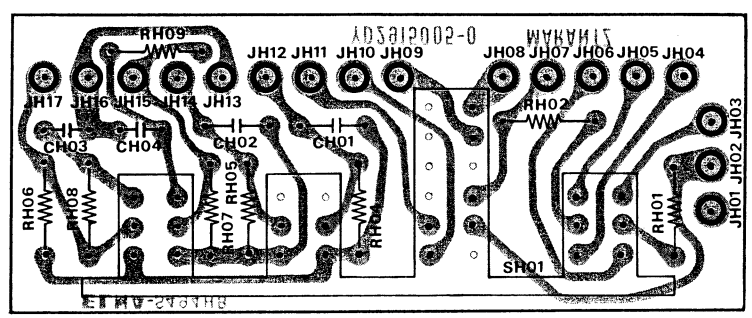

Figure 21. Filter Assembly (PH01) Component Locations

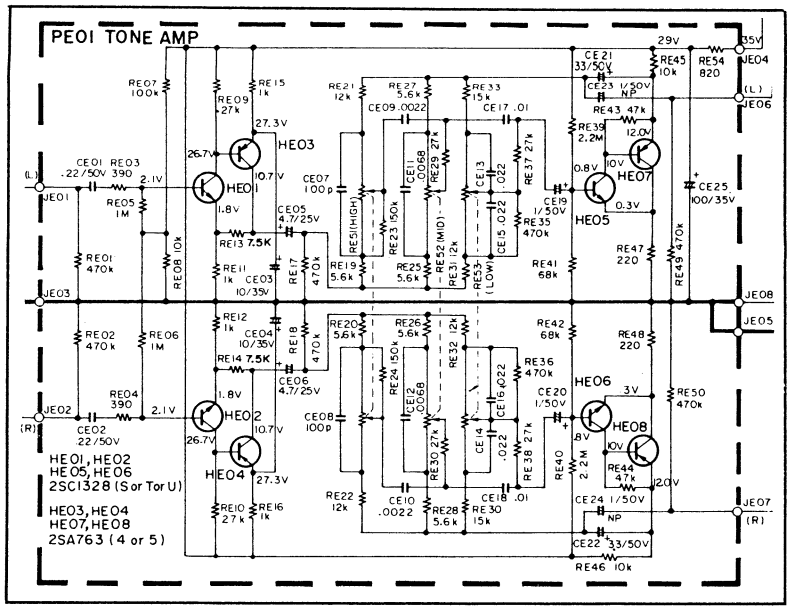

Figure 22. Pre-Tone Amplifier Assembly (PE01) Schematic Diagram

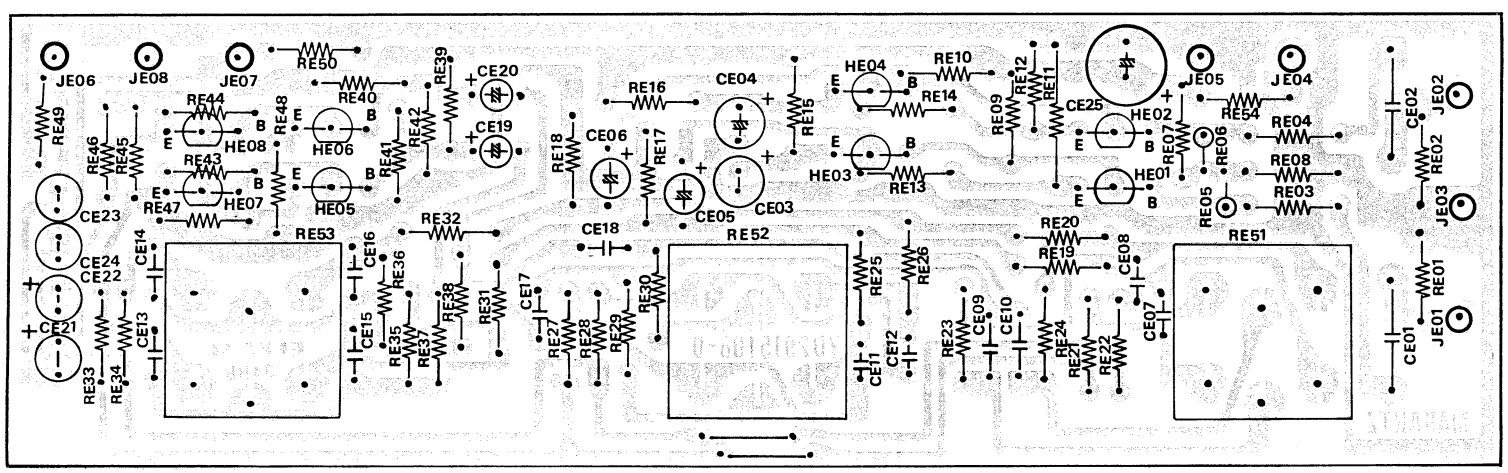

Figure 23. Pre-Tone Amplifier Assembly (PE01) Component Locations

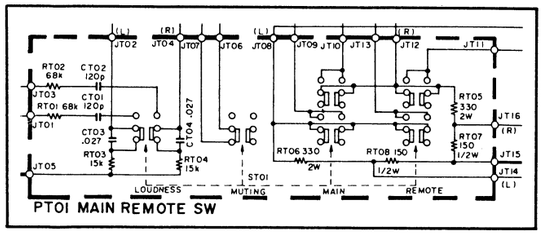

Figure 24. Main and Remote Switch Assembly (PT01) Schematic Diagram

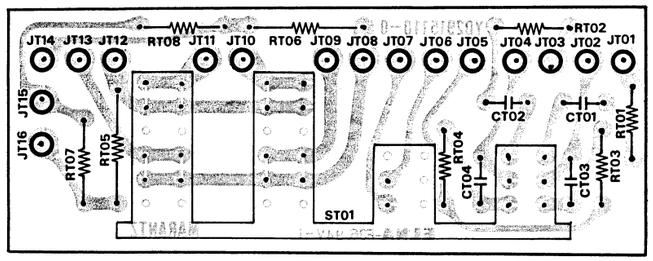

Figure 25. Main and Remote Switch Assembly (PT01) Component Locations

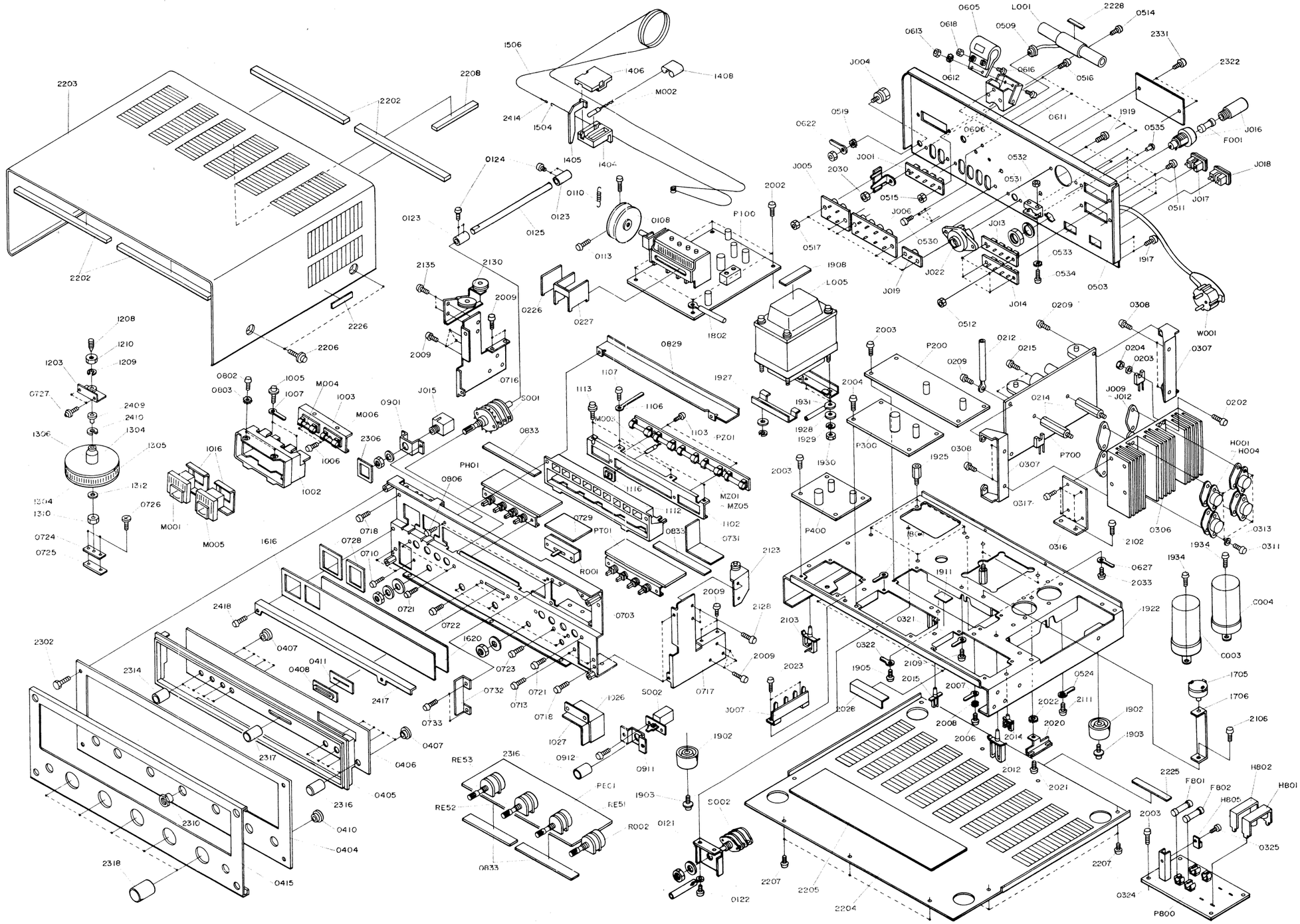

Figure 26. Exploded Mechanical Diagram

P100
FM FRONT.END.AM TUNER

P200
FM.IF

P300
FM MPX

P400
PHONO EQ

P700
MAIN AMP

P800
POWER SUPPLY

PE01 TONE AMP

PT01 LOUDNESS MUTING MAIN REMOTE

PZ01 DIAL LAMP

PH01 FILTER MONO MONI

QUAD OUT

REMOTE

MAIN

PHONES

GROUND

PHONO

AUX

IN TAPE 1 OUT

IN TAPE 2 OUT

VOLUME R002 250k

BALANCE R001 500k

TAPE 1 MONITOR MONO LOW HI

S003

Figure 27. Wiring Diagram

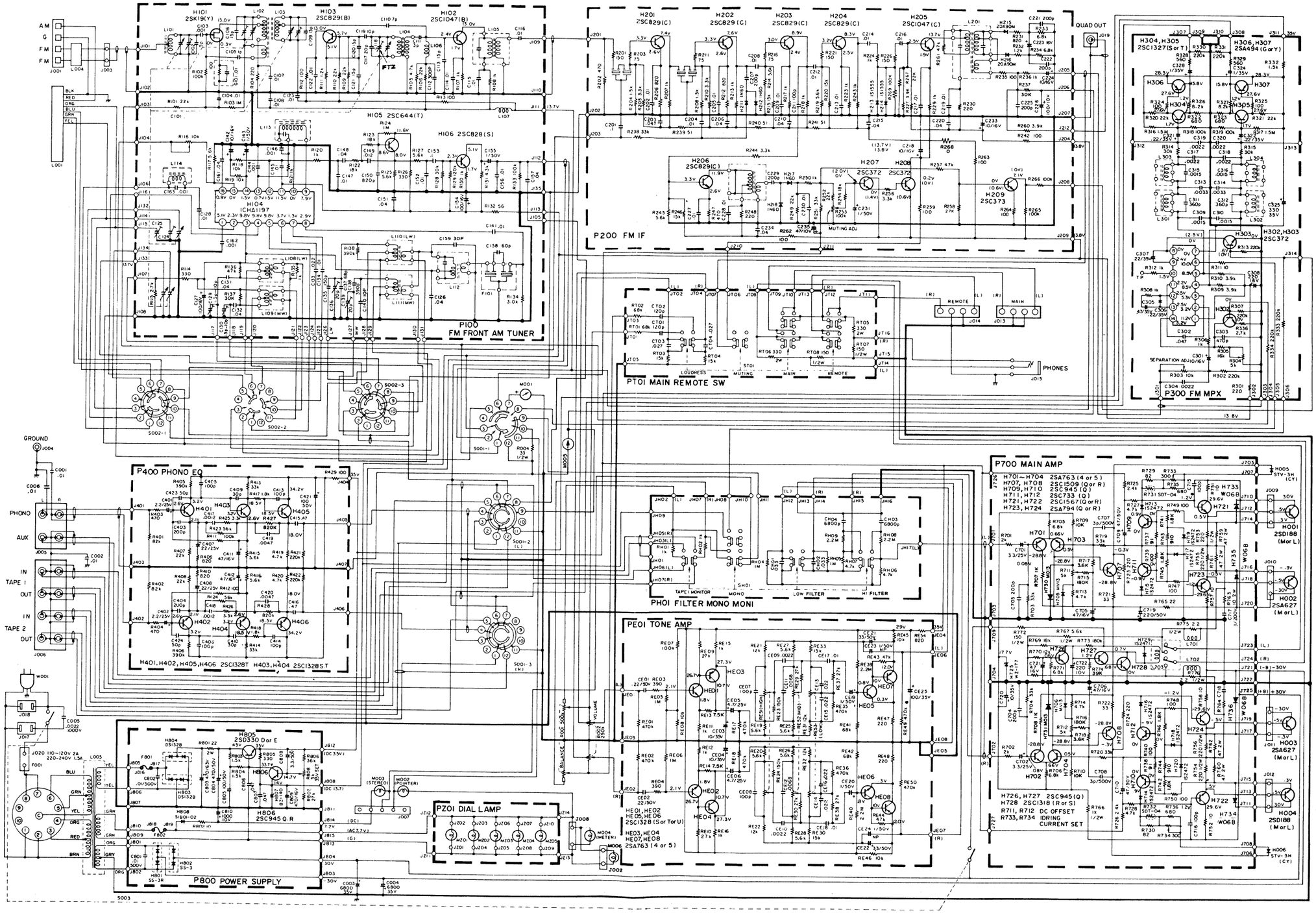

Figure 28. Schematic Diagram

Parts List

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
A	1	297706340	Front Panel Assembly
0404	1	297706301	Escutcheon
0405	1	285340101	Frame
0406	1	293415801	Window
0407	8	288625901	Bushing
0408	1	285425901	Bushing
0410	1	281825905	Bushing
0411	1	291510701	Sheet
0415	1	291505301	Cover
B	1	285327340	Flywheel Assembly
1304	2	257706302	Escutcheon
1305	1	257727301	Flywheel
1306	1	285311201	Shaft
1310	1	53110603E	Hexagon Nut
1312	1	54020601E	Flat Washer, P
C	1	291510341	Pointer Assembly
1404	1	291510301	Pointer
1405	1	282610301	Pointer
1406	1	291510302	Pointer
1408	1	291526703	Heatsink
M002	1	IN1008030	Lamp
D	1	120200640	Hook Assembly
1504	1	120225801	Hook
1506	1	72080802A	String
E	1	281915943	Drum Assembly
0108	1	281915901	Drum
0110	1	71101689L	Spring
0113	2	51064019A	Set Screw
0121	1	293416001	Bracket
0122	2	51570306B	P.H. Tapped Screw, P3 x 6
0123	2	289612501	Joint
0124	4	51064019A	Screw
0125	1	293411201	Shaft
0202	2	51440314A	P.H.M. Screw S, P3 x 14
0203	2	54020301A	Flat Washer
0204	2	53110303A	Hexagon Nut
0209	4	51100306S	B.H.M. Screw, B3 x 6
0212	1	121000501	Clamper
0214	2	281810104	Support
0215	2	51100306S	B.H.M. Screw, B3 x 6
0220	2	116900502	Clamper
0221	2	51102606B	B.H.M. Screw, B2.6 x 6
0222	2	53112603E	Hexagon Nut
0226	1	282110901	Shield
0227	1	295810901	Shield
0306	1	291526701	Heatsink
0307	2	291516007	Bracket

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
0308	4	51380305P	R.H. Tapped Screw, R3 x 5
0311	8	51100314E	B.H.M. Screw, B3 x 14
0313	8	54040302N	Spring Wahser
0316	2	282016007	Bracket
0317	8	51380306P	R.H. Tapped Screw, R3 x 6
0321	1	62030039W	Lug
0322	1	62030039W	Lug
0324	1	291526702	Heatsink
0325	1	51100306E	B.H.M. Screw, B3 x 6
0503	1	293416022	Bracket
0509	1	145525907	Bushing
0511	4	51100308S	B.H.M. Screw, B3 x 8
0512	4	53110303E	Hexagon Nut
0514	2	51100308S	B.H.M. Screw, B3 x 8
0515	2	53110303E	Hexagon Nut
0516	6	51100308S	B.H.M. Screw, B3 x 8
0517	6	53110303E	Hexagon Nut
0519	1	54050400R	T.L. Washer, OR
0524	1	62030039W	Lug
0530	3	51100306S	B.H.M. Screw, B3 x 6
0531	1	282125901	Bushing
0532	2	53110303A	Hexagon Nut
0533	2	54050300R	T.L. Washer
0534	2	51060316A	P.H.M. Screw, P3 x 16
0535	2	55060305S	T.R. Rivet
0605	1	281927103	Holder
0606	1	257816052	Bracket, K
0611	2	51100310S	B.H.M. Screw, B3 x 10
0612	2	54050300R	T.L. WAsher, OR
0613	2	53110303E	Hexagon Nut
0616	2	51100310S	B.H.M. Screw, B3 x 10
0618	2	53110303E	Hexagon Nut
0622	1	62041760W	Lug
0627	1	62030039W	Lug
0703	1	291516050	Bracket, K
0710	2	51100306A	B.H.M. Screw, B3 x 6
0713	2	51100306A	P.H.M. Screw, P3 x 6
0716	1	281816003	Bracket
0717	1	281816004	Bracket
0718	4	51100405A	B.H.M. Screw, B4 x 5
0721	4	51100306A	B.H.M. Screw, B3 x 6
0722	2	51100306A	B.H.M. Screw, B3 x 6
0723	2	51100305A	B.H.M. Screw, B3 x 5
0724	1	257710602	Bearing
0725	1	141511801	Spacer
0726	2	51040306A	F.H.M. Screw, F3 x 6
0727	2	51490306A	B.H.M. Screw FS, B3 x 6
0728	2	287105302	Cover
0729	1	291512004	Insulator
0731	1	281912005	Insulator
0732	1	285326901	Protector
0733	2	51570305B	P.H. Tapped Screw, P3 x 5
0802	2	51570306B	P.H. Tapped Screw, P3 x 6
0803	2	54050300R	T.L. Washer, OR
0806	2	51042608A	F.H.M. Screw, F2.6x 8
0829	1	287105102	Guide
0833	4	288612002	Insulator

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
0901	1	291516006	Bracket
0911	1	291516005	Bracket
0912	2	51060306A	P.H.M. Screw, P3 x 6
0920	3	292705502	Collar
1002	1	288627401	Reflector
1003	1	288627102	Holder
1005	2	51480306A	B.H.M. Screw F, B3 x 6
1006	2	51570305B	P.H. Tapped Screw, P3 x 5
1007	1	138200503	Clamper
1016	2	288610701	Sheet
1026	1	291510903	Shield
1027	1	291512003	Insulator
1102	1	287127101	Holder
1103	2	51570305B	P.H. Tapped Screw, P3 x 5
1106	2	287100501	Clamper
1107	2	51100306A	B.H.M. Screw, B3 x 6
1112	1	287127401	Reflector
1113	2	51480306A	B.H.M. Screw F, B3 x 6
1116	1	287425901	Bushing
1203	1	285310650	Bearing, K
1208	1	51640410D	Set Screw C.P.
1209	1	54040402N	Spring Washer
1210	1	53110403E	Hexagon Nut
1616	1	297730201	Dial
1620	1	285610701	Sheet
1705	1	290825901	Bushing
1706	1	292716005	Bracket
1802	1	121000501	Clamper
1804	1	121000501	Clamper
1902	4	293205701	Leg
1903	4	51440410S	P.H.M. Screw S, P4 x 10
1905	1	51570306B	P.H. Tapped Screw, P3 x 6
1908	1	288686101	Label, on Power Transformer
1911	1	951022101	Label, Fuse Caution
1917	6	51100306S	B.H.M. Screw, B3 x 6
1919	2	51100306S	B.H.M. Screw, B3 x 6
1922	1	297710550	Chassis, K
1925	4	285110101	Support
1927	2	295800502	Clamper
1928	4	54020401A	Flat Washer, P
1929	4	54040402A	Spring Washer
1930	4	53110403A	Hexagon Nut
1931	2	282100501	Clamper
1932	1	62030039W	Lug
1933	1	51570306B	P.H. Tapped Screw, P3 x 6
1934	4	51570306S	P.H. Tapped Screw, P3 x 6
2002	4	51100306S	B.H.M. Screw, B3 x 6
2003	16	51570306S	P.H. Tapped Screw, P3 x 6
2006	1	51570306B	P.H. Tapped Screw, P3 x 6
2007	1	121000501	Clamper
2008	1	54050300R	T.L. Washer, OR
2009	10	51570305B	P.H. Tapped Screw, P3 x 5
2012	2	288600503	Clamper
2013	4	288600502	Clamper
2014	2	288600505	Clamper
2015	2	288600506	Clamper

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
2020	1	291516009	Bracket
2021	1	51570306B	R.H. Tapped Screw, R3 x 6
2022	1	54050300R	T.L. Washer, OR
2023	2	51570306B	P.H. Tapped Screw, P3 x 6
2028	2	294212001	Insulator
2029	1	51570306B	P.H. Tapped Screw, P3 x 6
2030	1	54050300R	T.L. Washer, OR
2033	1	51570306B	P.H. Tapped Screw, P3 x 6
2102	4	51570306B	P.H. Tapped Screw, P3 x 6
2106	1	51570306B	P.H. Tapped Screw, P3 x 6
2109	1	51570306B	P.H. Tapped Screw, P3 x 6
2111	1	51570306B	P.H. Tapped Screw, P3 x 6
2123	1	291526250	Pulley, K
2128	2	51100306A	B.H.M. Screw, B3 x 6
2130	1	295826250	Pulley, K
2135	2	51100306A	B.H.M. Screw, B3 x 6
2202	4	257711807	Spacer
2203	1	281825701	Lid
2204	1	281825702	Lid
2205	1	291512001	Insulator
2206	4	51480406S	B.H.M. Screw F, B4 x 6
2207	10	51100406S	B.H.M. Screw, B4 x 6
2208	1	295805601	Buffer
2225	1	257886101	Label, UL Caution
2226	1	293286101	Label, Do not remove. See marking.....
2228	1	250626506	Indicator, Do not use as Handle.
2233	1	951091101	Label, LL No.
2234	1	282186102	Label, Fuse Caution
2235	1	951091102	Label, UL Factory Code
2302	4	52017039J	H. Head Bolt
2306	1	289610701	Sheet
2310	1	289205502	Collar
2314	8	288615403	Knob
2316	1	290415404	Knob
2317	1	285015401	Knob
2318	5	281815403	Knob
2322	1	297726501	Indicator
2331	2	51100306S	B.H.M. Screw, B3 x 6
2409	1	285011202	Shaft
2410	1	54040402N	Spring Washer
2414	1	56332040G	Eyelet
2417	1	291526901	Protector
2418	2	51570305B	P.H. Tapped Screw, P3 x 5
2424	4	952301511	Serial No. Card
2502	1	297785131	Instruction, Set
2511	1	297785601	Schematic
2536	1	281885112	Instructions, "Important"
2537	1	963000018	Guarantee Card
2538	1	281885114	Instructions, Packing
2602	1	ZA0200007	Ext. Antenna
2703	1	281881301	Envelope
2713	1	297780101	Packing Case, Inner
2714	1	297780111	Packing Case, Outer
2719	1	281880304	Cushion
2720	1	281880305	Cushion
2723	1	901483838	Polyethylene Bag, Set
2725	1	901302501	Polyethylene Bag, Printed Matter

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
2726	1	901302501	Polyethylene Bag, Accessories
2728	1	102980401	Sleeve
2729	1	956000004	Hang Tag
2730	1	273182101	Silicagel
2731	1	281905601	Buffer
2732	1	291810713	Sheet
			P100 FM AM FRONT END BOARD
P100	1	YD2977001	P.W. Board
	1	ZZ2977001	P.W. Board Assembly
G101	1	BF1030003	Printed Comp., 0.01μF 100Ω
R101	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R102	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R103	1	RT0510514	Resistor, 1MΩ ±5% ¼W
R104	1	RT0522114	Resistor, 220Ω ±5% ¼W
R105	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R106	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R107	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R108	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R109	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R110	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R111	1	RT0512214	Resistor, 1.2kΩ ±5% ¼W
R112	1	RT0510114	Resistor, 100Ω ±5% ¼W
R113	1	RT0510114	Resistor, 100Ω ±5% ¼W
R114	1	RT0533114	Resistor, 330Ω ±5% ¼W
R115	1	RC1027212	Resistor, 2.7kΩ ±10% ½W
R116	1	RA0103020	Trimming Resistor, 10kΩ
R117	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R118	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R119	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R120	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R121	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R122	1	RT0518314	Resistor, 18kΩ ±5% ¼W
R123	1	RT0518314	Resistor, 18kΩ ±5% ¼W
R124	1	RT0510514	Resistor, 1MΩ ±5% ¼W
R125	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R126	1	RT0533114	Resistor, 330Ω ±5% ¼W
R127	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R128	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R129	1	RT0512414	Resistor, 120kΩ ±5% ¼W
R130	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R131	1	RT0543214	Resistor, 4.3kΩ ±5% ¼W
R132	1	RT0556014	Resistor, 56Ω ±5% ¼W
R133	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R134	1	RT0530214	Resistor, 3.0kΩ ±5% ¼W
R135	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R136	1	RT0547314	Resistor, 47kΩ ±5% ¼W
R137	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R138	1	RT0539414	Resistor, 390kΩ ±5% ¼W
H101	1	HF200191A	FET, 2SK19(Y)
H102	1	HT310471B	Transistor, 2SC1047 (B)
H103	1	HT308291B	Transistor, 2SC 829 (B)
H104	1	HC1001901	IC, HA 1197
H105	1	HT306441C	Transistor, 2SC 644 T
H106	1	HT308281D	Transistor, 2SC 828 S
F101	1	FF1004516	Ceramic Filter, SFD-455D
L101	1	LA1202801	Ant. Coil

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
L102	1	LA1202802	RF Coil
L103	1	LA1202803	RF Coil
L104	1	LO1202801	Osc. Coil
L105	1	LI1015801	FM IFT
L106	1	LC1751001	Choke Coil
L107	1	LC1332002	Choke Coil
L108	1	LA1029001	LW RF Coil
L109	1	LA1001020	MW RF Coil
L110	1	LO1001052	LW Osc. Coil
L111	1	LO1001048	MW Osc. Coil
L112	1	LI1001501	AM IFT
L113	1	LI1001064	AM IFT
L114	1	LO1001042	Trap Coil
C101	1	CA4330003	Variable Cap., Tuning
C102	1	DD1205001	Ceramic Cap., 5pF ±10%
C103	1	DK1710201	Ceramic Cap., 0.001μF ±20%
C104	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C105	1	DD1001001	Ceramic Cap., 1pF ±0.25pF
C106	1	DD1615001	Ceramic Cap., 15pF ±10%
C107	1	DK1710201	Ceramic Cap., 0.001μF ±20%
C108	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C109	1	DD1615001	Ceramic Cap., 15pF ±10%
C110	1	DD1207001	Ceramic Cap., 7pF ±1pF
C111	1	DD1103001	Ceramic Cap., 3pF ±0.5pF
C112	1	DD1530101	Ceramic Cap., 300pF ±5%
C113	1	DD1615001	Ceramic Cap., 15pF ±10%
C114	1	DK1710201	Ceramic Cap., 0.001μF ±20%
C115	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C116	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C117	1	DD1520002	Ceramic Cap., 20pF ±5%
C118	1	CT1100008	Trimming Cap., 1.5pF ~ 10pF
C119	1	DD1210006	Ceramic Cap., 10pF ±1pF
C120	1	DD1615003	Ceramic Cap., 15pF ±10%
C121	1	DD1615003	Ceramic Cap., 15pF ±10%
C122	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C123	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C124	1	CT1200001	Trimming Cap., 20pF
C125	1	CT1100001	Trimming Cap., 1.5pF ~ 10pF
C126	1	DK1840302	Ceramic Cap., 0.04μF +80 −20%
C127	1	EA1070169	Electrolytic Cap., 100μF 16V
C128	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C129	1	CT1100001	Trimming Cap., 1.5pF ~ 10pF
C130	1	CT1100001	Trimming Cap., 1.5pF ~ 10pF
C131	1	DF1740301	Film Cap., 0.04μF ±20%
C132	1	DF1740301	Film Cap., 0.04μF ±20%
C133	1	DF1722301	Film Cap., 0.022μF ±20%
C134	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C135	1	DF6515150	Film Cap., 150pF ±5%
C136	1	CT1200001	Trimming Cap., 20pF
C137	1	DD1668001	Ceramic Cap., 68pF ±10%
C138	1	DF6539101	Film Cap., 390pF ±5%
C139	1	CT1200001	Trimming Cap., 20pF
C140	1	DD1210001	Ceramic Cap., 10pF ±1pF
C141	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C142	1	EA1060169	Electrolytic Cap., 10μF 16V
C143	1	EA1050509	Electrolytic Cap., 1μF 50V
C144	1	DK1710201	Ceramic Cap., 0.001μF ±20%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
C145	1	DF1710301	Film Cap., 0.01μF ±20%
C146	1	DF1610201	Film Cap., 0.001μF ±10%
C147	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C148	1	DK1840302	Ceramic Cap., 0.04μF +80 −20%
C149	1	DF1512301	Film Cap., 0.012μF ±5%
C150	1	DF6582150	Film Cap., 820pF ±5%
C151	1	DK1840302	Ceramic Cap., 0.04μF +80 −20%
C152	1	DF1610301	Film Cap., 0.01μF ±10%
C153	1	EV1040356	Film Cap., 0.1μF 35V
C154	1	EA1070169	Electrolytic Cap., 100μF 16V
C155	1	EE1050501	Electrolytic Cap., 1μF 50V
C156	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C157	1	DK1840302	Ceramic Cap., 0.04μF +80 −20%
C158	1	DD1660001	Ceramic Cap., 60pF ±10%
C159	1	DD1630001	Ceramic Cap., 30pF ±10%
C161	1	DK1840302	Ceramic Cap., 0.04μF +80 −20%
C162	1	DK1710201	Ceramic Cap., 0.001μF ±20%
C163	1	DF6510201	Film Cap., 0.001μF ±5%
J101 ~ J131	31	YP1000113	Plug
J135	1	YP1000113	Plug
J136	1	YP1000113	Plug
			P200 FM IF BOARD
P200	1	YD2915102	P.W. Board
	1	ZZ2977802	P.W. Board Assembly
P208	2	293311802	Spacer
R201	1	RT0515114	Resistor, 150Ω ±5% ¼W
R202	1	RT0547114	Resistor, 470Ω ±5% ¼W
R203	1	RT0575014	Resistor, 75Ω ±5% ¼W
R204	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R205	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R206	1	RT0582114	Resistor, 820Ω ±5% ¼W
R207	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R208	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R210	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R211	1	RT0575014	Resistor, 75Ω ±5% ¼W
R212	1	RT0582114	Resistor, 820Ω ±5% ¼W
R213	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R214	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R215	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R216	1	RT0575014	Resistor, 75Ω ±5% ¼W
R217	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R218	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R219	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R220	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R221	1	RT0515114	Resistor, 150Ω ±5% ¼W
R223	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R224	1	RT0515114	Resistor, 150Ω ±5% ¼W
R226	1	RT0515114	Resistor, 150Ω ±5% ¼W
R227	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R228	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R229	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R230	1	RT0522114	Resistor, 220Ω ±5% ¼W
R231	1	RT0582114	Resistor, 820Ω ±5% ¼W
R232	1	RT0512214	Resistor, 1.2kΩ ±5% ¼W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
R233	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R234	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R235	1	RT0510114	Resistor, 100Ω ±5% ¼W
R236	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R237	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R238	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R239	1	RT0551014	Resistor, 51Ω ±5% ¼W
R240	1	RT0551014	Resistor, 51Ω ±5% ¼W
R241	1	RT0551014	Resistor, 51Ω ±5% ¼W
R242	1	RT0551014	Resistor, 51Ω ±5% ¼W
R243	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R244	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R245	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R246	1	RT0515314	Resistor, 15kΩ ±5% ¼W
R247	1	RT0547114	Resistor, 470Ω ±5% ¼W
R248	1	RT0522114	Resistor, 220Ω ±5% ¼W
R249	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R250	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R251	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R252	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R263	1	RA0104018	Trimming Resistor, 100kΩ
R254	1	RT0518314	Resistor, 18kΩ ±5% ¼W
R256	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R257	1	RT0547314	Resistor, 47kΩ ±5% ¼W
R258	1	RT0527314	Resistor, 27kΩ ±5% ¼W
R259	1	RT0510114	Resistor, 100Ω ±5% ¼W
R260	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R261	1	RT0547314	Resistor, 47kΩ ±5% ¼W
R262	1	RT0510114	Resistor, 100Ω ±5% ¼W
R263	1	RT0510114	Resistor, 100Ω ±5% ¼W
R264	1	RT0510114	Resistor, 100Ω ±5% ¼W
R265	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R266	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R267	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R268	1	RC0000012	Resistor, 0Ω
R269	1	RT0510414	Resistor, 100kΩ ±5% ¼W
C201	1	DK1810402	Ceramic Cap., 0.1μF ±10%
C202	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C203	1	DK1840301	Ceramic Cap., 0.04μF ±10%
C204	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C205	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C206	1	DK1840301	Ceramic Cap., 0.04μF ±10%
C207	1	DD1620101	Ceramic Cap., 200pF ±10%
C208	1	DK1710301	Ceramic Cap., 0.01μF ±10%
C209	1	DK1710301	Ceramic Cap., 0.01μF ±10%
C210	1	DK1840301	Ceramic Cap., 0.04μF ±10%
C211	1	DD1610101	Ceramic Cap., 100pF ±10%
C212	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C213	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C214	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C215	1	DK1840301	Ceramic Cap., 0.04μF ±10%
C216	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C217	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C218	1	EA1060169	Electrolytic Cap., 10μF 16V
C219	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C220	1	DK1840301	Ceramic Cap., 0.04μF ±10%
C221	1	DD1620101	Ceramic Cap., 200pF ±10%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
C222	1	DD1620101	Ceramic Cap., 200pF ±10%
C223	1	EA1060169	Electrolytic Cap., 10μF 16V
C224	1	EA1060169	Electrolytic Cap., 10μF 16V
C225	1	DD1620101	Ceramic Cap., 200pF ±10%
C226	1	EA1070109	Electrolytic Cap., 100μF 10V
C227	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C228	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C229	1	DD1620101	Ceramic Cap., 200pF ±10%
C230	1	DK1710301	Ceramic Cap., 0.01μF ±20%
C231	1	EA1050509	Electrolytic Cap., 1μF 50V
C232	1	EA3360259	Electrolytic Cap., 33μF 25V
C233	1	EA1060169	Electrolytic Cap., 10μF 16V
C234	1	DK1840301	Ceramic Cap., 0.04μF +80 -20%
C235	1	EA4760109	Electrolytic Cap., 47μF 10V
H201	1	HT308291C	Transistor, 2SC829C
H202	1	HT308291C	Transistor, 2SC829C
H203	1	HT308291C	Transistor, 2SC829C
H204	1	HT308291C	Transistor, 2SC829C
H205	1	HT310471C	Transistor, 2SC1047C
H206	1	HT308291C	Transistor, 2SC829C
H207	1	HT3037210	Transistor, 2SC372
H208	1	HT3037210	Transistor, 2SC372
H209	1	HT3037310	Transistor, 2SC373
H211	1	HD1000105	Diode, 1N60
H212	1	HD1000105	Diode, 1N60
H213	1	HD2001105	Diode, 1S1555
H214	1	HD2001105	Diode, 1S1555
H215	1	HD1000302	Diode, 20A90M
H216	1	HD1000302	Diode, 20A90M
H217	1	HD1000105	Diode, 1N60
H218	1	HD1000105	Diode, 1N60
F201	1	FF1107005	Ceramic Cap., SFE 10.7MHz
F202	1	FF1107005	Ceramic Cap., SFE 10.7MHz
L201	1	LI1018802	IFT, FM DET
L202	1	LI1015602	IFT, FM
J201 ~ J214	14	YP1000113	Plug
			P300 MPX. BOARD
P300	1	YD2915103	P.W. Board
	1	ZZ2974103	P.W. Board Assembly
P308	4	293311802	Spacer
R301	1	RT0522114	Resistor, 220Ω ±5% ¼W
R302	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R303	1	RA0103025	Trimming Resistor, 10kΩ
R304	1	RA0472005	Trimming Resistor, 4.7kΩ B
R305	1	RT0516314	Resistor, 16kΩ ±5% ¼W
R306	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R307	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R308	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R309	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R310	1	RT0539214	Resistor, 3.9kΩ ±5% ¼W
R311	1	RT0510014	Resistor, 10Ω ±5% ¼W
R312	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R313	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R314	1	RT0530314	Resistor, 30kΩ ±5% ¼W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
R315	1	RT0530314	Resistor, 30kΩ ±5% ¼W
R316	1	RT0515514	Resistor, 1.5MΩ ±5% ¼W
R317	1	RT0515514	Resistor, 1.5MΩ ±5% ¼W
R318	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R319	1	RT0510414	Resistor, 100kΩ ±5% ¼W
R320	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R321	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R322	1	RT0568114	Resistor, 680Ω ±5% ¼W
R323	1	RT0568114	Resistor, 680Ω ±5% ¼W
R324	1	RT0510114	Resistor, 100Ω ±5% ¼W
R325	1	RT0510114	Resistor, 100Ω ±5% ¼W
R326	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R327	1	RT0582214	Resistor, 8.2kΩ ±5% ¼W
R328	1	RT0556114	Resistor, 560Ω ±5% ¼W
R329	1	RT0556114	Resistor, 560Ω ±5% ¼W
R330	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R331	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R332	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R333	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R334	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R335	1	RT0527214	Resistor, 2.7kΩ ±5% ¼W
R336	1	RC0000012	Resistor, 0Ω ½W
C301	1	EA1060169	Electrolytic Cap., 10μF 16V
C302	1	DF1747301	Film Cap., 0.047μF ±20%
C303	1	DF5547101	Film Cap., 470pF ±5%
C304	1	DF1622205	Film Cap., 2200pF ±10%
C305	1	EQ4740501	Electrolytic Cap., 0.47μF ±20% 35V
C306	1	EQ2240501	Electrolytic Cap., 0.22μF ±20% 35V
C307	1	EQ2240501	Electrolytic Cap., 0.22μF ±20% 35V
C308	1	EA2270169	Electrolytic Cap., 220μF 16V
C309	1	DF1615205	Film Cap., 1500pF ±10%
C310	1	DF1615205	Film Cap., 1500pF ±10%
C311	1	DD1536101	Ceramic Cap., 360pF ±5%
C312	1	DD1536101	Ceramic Cap., 360pF ±5%
C313	1	DF1633205	Film Cap., 3300pF ±10%
C314	1	DF1633205	Film Cap., 3300pF ±10%
C315	1	DF1515205	Film Cap., 1500pF ±5%
C316	1	DF1515205	Film Cap., 1500pF ±5%
C317	1	DF1622205	Film Cap., 2200pF ±10%
C318	1	DF1622205	Film Cap., 2200pF ±10%
C319	1	DF1522205	Film Cap., 2200pF ±5%
C320	1	DF1522205	Film Cap., 2200pF ±5%
C321	1	EV2240351	Electrolytic Cap., 0.22μF ±20% 35V
C322	1	EV2240351	Electrolytic Cap., 0.22μF ±20% 35V
C323	1	EV1050352	Electrolytic Cap., 1μF ±20% 35V
C324	1	EV1050352	Electrolytic Cap., 1μF ±20% 35V
C325	1	EA2270359	Electrolytic Cap., 220μF 35V
H301	1	HC1000401	IC, HA1156
H302	1	HT3037210	Transistor, 2SC372
H303	1	HT3037210	Transistor, 2SC372
H304	1	HT313272A	Transistor, 2SC1327 S or T
H305	1	HT313272A	Transistor, 2SC1327 S or T
H306	1	HT108422A	Transistor, 2SA842 GR or BL
H307	1	HT108422A	Transistor, 2SA842 GR or BL
L301	1	LS1001304	MPX Coil, 56mH
L302	1	LS1001304	MPX Coil, 56mH
L303	1	LS1001305	MPX Coil, 43mH

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
L304	1	LS1001305	MPX Coil, 43mH
J301 ~ J314	14	YP1000113	Plug
			P400 EQL. AMP. BOARD
P400	1	YD2915104	P. W. Board
	1	ZZ2915304	P. W. Board Assembly
P408	2	293311802	Spacer
R401	1	RT0582314	Resistor, 82kΩ ±5% ¼W
R402	1	RT0582314	Resistor. 82kΩ ±5% ¼W
R403	1	RT0547114	Resistor, 470Ω ±5% ¼W
R404	1	RT0547114	Resistor, 470Ω ±5% ¼W
R405	1	RN0539414	Resistor, 390Ω ±5% ¼W
R406	1	RN0539414	Resistor, 390Ω ±5% ¼W
R407	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R408	1	RT0522314	Resistor, 22kΩ ±5% ¼W
R409	1	RT0582114	Resistor, 820Ω ±5% ¼W
R410	1	RT0582114	Resistor, 820Ω ±5% ¼W
R411	1	RN0510414	Resistor, 100kΩ ±5% ¼W
R412	1	RN0510414	Resistor, 100kΩ ±5% ¼W
R413	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R414	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R415	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R416	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
R417	1	RT0518214	Resistor, 1.8kΩ ±5% ¼W
R418	1	RT0518214	Resistor, 1.8kΩ ±5% ¼W
R419	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R420	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R421	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R422	1	RT0522414	Resistor, 220kΩ ±5% ¼W
R423	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R424	1	RT0556314	Resistor, 56kΩ ±5% ¼W
R425	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R426	1	RT0533214	Resistor, 3.3kΩ ±5% ¼W
R427	1	RN0582414	Resistor, 820kΩ ±5% ¼W
R428	1	RN0582414	Resistor, 820kΩ ±5% ¼W
R429	1	RT0510114	Resistor, 100Ω ±5% ¼W
C401	1	EV2250256	Electrolytic Cap., 22μF 25V ±20%
C402	1	EV2250256	Electrolytic Cap., 22μF 25V ±20%
C403	1	DD1520101	Ceramic Cap., 200pF 50V ±10%
C404	1	DD1520101	Ceramic Cap., 200pF 50V ±10%
C405	1	DD1610101	Ceramic Cap., 100pF 50V ±10%
C406	1	DD1610101	Ceramic Cap., 100pF 50V ±10%
C407	1	EE2260251	Electrolytic Cap., 22μF 25V ±20%
C408	1	EE2260251	Electrolytic Cap., 22μF 25V ±20%
C409	1	DD1630001	Ceramic Cap., 30pF 50V ±10%
C410	1	DD1630001	Ceramic Cap., 30pF 50V ±10%
C411	1	EA4760169	Electrolytic Cap., 47μF 16V +100 −10 %
C412	1	EA4760169	Electrolytic Cap., 47μF 16V +100 −10 %
C413	1	DD1610101	Ceramic Cap., 100pF 50V ±10%
C414	1	DD1610101	Ceramic Cap., 100pF 50V ±10%
C415	1	DF1747401	Film Cap., 0.47μF 50V ±20%
C416	1	DF1747401	Film Cap., 0.47μF 50V ±20%
C417	1	DF5412201	Film Cap., 1200pF 50V ±2%
C418	1	DF5412201	Film Cap., 1200pF 50V ±2%
C419	1	DF5547201	Film Cap., 4700pF 50V ±5%
C420	1	DF5547201	Film Cap., 4700pF 50V ±5%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
C421	1	EA1070509	Electrolytic Cap., 100μF 50V +100 −10 %
C423	1	DD1650001	Ceramic Cap., 50pF 50V ±10%
C424	1	DD1650001	Ceramic Cap., 50pF 50V ±10%
H401	1	HT313281T	Transistor, 2SC1328 T
H402	1	HT313281T	Transistor, 2SC1328 T
H403	1	HT313282A	Transistor, 2SC1328 S or T
H404	1	HT313282A	Transistor, 2SC1328 S or T
H405	1	HT313281T	Transistor, 2SC1328 T
H406	1	HT313281T	Transistor, 2SC1328 T
J401 ~ J407	7	YP1000113	Plug
H005	1	HV0000508	Diode, STU-3H (CY)
H006	1	HV0000508	Diode, STU-3H (CY)
			P700 MAIN AMP. BOARD
P700	1	YD2958101	P. W. Board
	1	ZZ2958301	P. W. Board Assembly
P708	40	293311802	Spacer
R701	1	RT0520214	Resistor, 2.0kΩ ±5% ¼W
R702	1	RT0520214	Resistor, 2.0kΩ ±5% ¼W
R703	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R704	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R705	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R706	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R707	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R708	1	RT0510214	Resistor, 1kΩ ±5% ¼W
R709	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R710	1	RT0510314	Resistor, 10kΩ ±5% ¼W
R711	1	RA0502017	Trimming Resistor, 5kΩ (B)
R712	1	RA0502017	Trimming Resistor, 5kΩ (B)
R713	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R714	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R715	1	RT0518414	Resistor, 180kΩ ±5% ¼W
R716	1	RT0518414	Resistor, 180kΩ ±5% ¼W
R717	1	RT0536214	Resistor, 3.6kΩ ±5% ¼W
R718	1	RT0536214	Resistor, 3.6kΩ ±5% ¼W
R719	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R720	1	RT0533314	Resistor, 33kΩ ±5% ¼W
R721	1	GF0533014	Resistor, 33Ω ±5% ¼W
R722	1	GF0533014	Resistor, 33Ω ±5% ¼W
R723	1	GF0522114	Resistor, 220Ω ±5% ¼W
R724	1	GF0522114	Resistor, 220Ω ±5% ¼W
R725	1	RT0524214	Resistor, 2.4kΩ ±5% ¼W
R726	1	RT0524214	Resistor, 2.4kΩ ±5% ¼W
R727	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R728	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
R729	1	RT0582014	Resistor, 82Ω ±5% ¼W
R730	1	RT0582014	Resistor, 82Ω ±5% ¼W
R731	1	HH0000303	Thermister, SDT-04
R732	1	HH0000303	Thermister, SDT-04
R733	1	RA0301002	Trimming Resistor, 300Ω (B)
R734	1	RA0301002	Trimming Resistor, 300Ω (B)
R735	1	RT0568114	Resistor, 680Ω ±5% ¼W
R736	1	RT0568114	Resistor, 680Ω ±5% ¼W
R737	1	GF0591014	Resistor, 91Ω ±5% ¼W
R738	1	GF0591014	Resistor, 91Ω ±5% ¼W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
R739	1	GF0510114	Resistor, 100Ω ±5% ¼W
R740	1	GF0510114	Resistor, 100Ω ±5% ¼W
R741	1	GF0518214	Resistor, 1.8kΩ ±5% ¼W
R742	1	GF0518214	Resistor, 1.8kΩ ±5% ¼W
R743	1	GF0591114	Resistor, 910Ω ±5% ¼W
R744	1	GF0591114	Resistor, 910Ω ±5% ¼W
R745	1	GF0518214	Resistor, 1.8kΩ ±5% ¼W
R746	1	GF0518214	Resistor, 1.8kΩ ±5% ¼W
R747	1	GF0510114	Resistor, 100Ω ±5% ¼W
R748	1	GF0510114	Resistor, 100Ω ±5% ¼W
R749	1	GF0510114	Resistor, 100Ω ±5% ¼W
R750	1	GF0510114	Resistor, 100Ω ±5% ¼W
R751	1	GF0510014	Resistor, 10Ω ±5% ¼W
R752	1	GF0510014	Resistor, 10Ω ±5% ¼W
R753	1	GF0522112	Resistor, 220Ω ±5% ½W
R754	1	GF0522112	Resistor, 220Ω ±5% ½W
R755	1	GF0522112	Resistor, 220Ω ±5% ½W
R756	1	GF0522112	Resistor, 220Ω ±5% ½W
R757	1	GF0510014	Resistor, 10Ω ±5% ¼W
R758	1	GF0510014	Resistor, 10Ω ±5% ¼W
R759	1	GW1047202	Resistor, 0.47Ω ±10% 2W
R760	1	GW1047202	Resistor, 0.47Ω ±10% 2W
R761	1	GW1047202	Resistor, 0.47Ω ±10% 2W
R762	1	GW1047202	Resistor, 0.47Ω ±10% 2W
R763	1	GJ0510002	Resistor, 10Ω ±5% 2W
R764	1	GJ0510002	Resistor, 10Ω ±5% 2W
R765	1	GF0522014	Resistor, 22Ω ±5% ¼W
R766	1	GF0510212	Resistor, 1kΩ ±5% ½W
R767	1	RC1056212	Resistor, 5.6kΩ ±10% ½W
R768	1	RC1056212	Resistor, 5.6kΩ ±10% ½W
R769	1	RT0518314	Resistor, 18kΩ ±5% ¼W
R770	1	RT0512314	Resistor, 12kΩ ±5% ¼W
R771	1	RT0568214	Resistor, 6.8kΩ ±5% ¼W
R772	1	GF0515112	Resistor, 150Ω ±5% ½W
R773	1	RT0518414	Resistor, 180kΩ ±5% ¼W
R774	1	RT0539314	Resistor, 39kΩ ±5% ¼W
R775	1	RC1002212	Resistor, 2.2Ω ±10% ½W
R776	1	RC1002212	Resistor, 2.2Ω ±10% ½W
R777	1	RC0000012	Resistor, 0Ω
R778	1	RC0000012	Resistor, 0Ω
R779	1	RC0000012	Resistor, 0Ω
C701	1	EE3350251	Electrolytic Cap., 3.3μF 25V ±20%
C702	1	EE3350251	Electrolytic Cap., 3.3μF 25V ±20%
C703	1	DD1620101	Ceramic Cap., 200pF 50V
C704	1	DD1620101	Ceramic Cap., 200pF 50V
C705	1	EE4760162	Electrolytic Cap., 47μF 16V ±20%
C706	1	EE4760162	Electrolytic Cap., 47μF 16V ±20%
C707	1	DD1003050	Ceramic Cap., 3pF 500V
C708	1	DD1003050	Ceramic Cap., 3pF 500V
C709	1	EA4760509	Electrolytic Cap., 47μF 50V $^{+100}_{-10}$%
C710	1	EA4760509	Electrolytic Cap., 47μF 50V $^{+100}_{-10}$%
C715	1	DK1610150	Ceramic Cap., 100pF ±10%
C716	1	DK1610150	Ceramic Cap., 100pF ±10%
C717	1	DF1710452	Film Cap., 0.1μF 200V
C718	1	DF1710452	Film Cap., 0.1μF 200V
C719	1	EA2270509	Electrolytic Cap., 220μF 50V $^{+100}_{-10}$%
C720	1	EA1060359	Electrolytic Cap., 10μF 35V $^{+100}_{-10}$%

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
C721	1	EA4760169	Electrolytic Cap., 47μF 16V $^{+100}_{-10}$%
C722	1	EA3370109	Electrolytic Cap., 330μF 10V $^{+100}_{-10}$%
J701 ≀ J727	27	YP1000113	Plug
H701	1	HT107221T	Transistor, 2SA722 (T, U)
H702	1	HT107221T	Transistor, 2SA722 (T, U)
H703	1	HT107221T	Transistor, 2SA722 (T, U)
H704	1	HT107221T	Transistor, 2SA722 (T, U)
H705	1	HV0000312	Diode, MV-13
H706	1	HV0000312	Diode, MV-13
H707	1	HT315092B	Transistor, 2SC1509 (Q, R)
H708	1	HT315092B	Transistor, 2SC1509 (Q, R)
H709	1	HT309451Q	Transistor, 2SC945 Q
H710	1	HT309451Q	Transistor, 2SC945 Q
H711	1	HT107331Q	Transistor, 2SA733 Q
H712	1	HT107331Q	Transistor, 2SA733 Q
H713	1	HD2000221	Diode, 1S2472 (G, R)
H714	1	HD2000221	Diode, 1S2472 (G, R)
H715	1	HD2000221	Diode, 1S2472 (G, R)
H716	1	HD2000221	Diode, 1S2472 (G, R)
H717	1	HD2000221	Diode, 1S2472 (G, R)
H718	1	HD2000221	Diode, 1S2472 (G, R)
H719	1	HD2000221	Diode, 1S2472 (G, R)
H720	1	HD2000221	Diode, 1S2472 (G, R)
H721	1	HT315671Q	Transistor, 2SC1567 (Q, R)
H722	1	HT315671Q	Transistor, 2SC1567 (Q, R)
H723	1	HT107941Q	Transistor, 2SA794 (Q, R)
H724	1	HT107941Q	Transistor, 2SA794 (Q, R)
H725	1	HD3003009	Diode, WZ-177
H726	1	HT309452A	Transistor, 2SC945 (Q, R)
H727	1	HT309452A	Transistor, 2SC945 (Q, R)
H728	1	HT313182C	Transistor, 2SC1318 (R, S)
H729	1	HD2000321	Diode, 1S2471 (B L)
H730	1	HV0000312	Diode, MV-13
H731	1	HV0000312	Diode, MV-13
H733	1	HD2000501	Diode, W06B
H734	1	HD2000501	Diode, W06B
H735	1	HD2000501	Diode, W06B
H736	1	HD2000501	Diode, W06B
L701	1	LC2272001	Coil, 2.7μF
L702	1	LC2272001	Coil, 2.7μF
L703	1	LY2024009	Relay, MY-2Z-02 24V
			P800 POWER SUPPLY BOARD
P800	1	YD2915106	P. W. Board
	1	ZZ2915306	P. W. Board Assembly
P808	8	293311802	Spacer
R801	1	GJ0522002	Resistor, 22Ω ±5% 2W
R802	1	GF0510014	Resistor, 10Ω ±5% ¼W
R803	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R804	1	RT0515214	Resistor, 1.5kΩ ±5% ¼W
R805	1	GJ0533102	Resistor, 330Ω ±5% 2W
R806	1	RT0536314	Resistor, 36kΩ ±5% ¼W
R807	1	RT0527314	Resistor, 27kΩ ±5% ¼W
R808	1	RA0502013	Trimming Resistor, 5kΩ (B)
C801	1	DK1810351	Ceramic Cap., 0.01μF ±10% 500V
C802	1	DK1810351	Ceramic Cap., 0.01μF ±10% 500V
C803	1	EA4770631	Electrolytic Cap., 470μF 63V
C804	1	EA4770509	Electrolytic Cap., 470μF 50V
C805	1	EA1070509	Electrolytic Cap., 100μF 50V

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
C806	1	DF1747305	Film Cap., 0.047μF ±20% 50V
C807	1	DK1840302	Ceramic Cap., 0.04μF +100% 50V
C808	1	EA3350509	Electrolytic Cap., 3.3μF 50V
C809	1	EA4770169	Electrolytic Cap., 470μF 16V
C810	1	EA1080109	Electrolytic Cap., 1000μF 10V
H801	1	HD2001508	Diode, SS-3R
H802	1	HD2001408	Diode, SS-3
H803	1	HD2001203	Diode, DS1323
H804	1	HD2001103	Diode, DS131 B
H805	1	HT403302A	Transistor, 2SD330 D or E
H806	1	HT309452A	Transistor, 2SC945 Q or R
H807	1	HD3002109	Diode, BZ-140 14V
H808	1	HD2000413	Diode, S1B01-02
J801 ~ J819	19	YP1000113	Plug
H002	1	HT106271M	Transistor, 2SA627 ML
H001	1	HT401881M	Transistor, 2SD188 ML
H004	1	HT401881M	Transistor, 2SD188 ML
H003	1	HT106271M	Transistor, 2SA627 ML
J009	1	YJ0500019	Socket, Transistor
J010	1	YJ0500019	Socket, Transistor
J011	1	YJ0500019	Socket, Transistor
J012	1	YJ0500019	Socket, Transistor
J022	1	BY0311001	Terminal
J001	1	YT0304009	Terminal, Antenna
J004	1	YT0101005	Terminal, Ground
J013	1	YT0304006	Terminal, Speaker
J014	1	YT0304006	Terminal, Speaker
J016	1	YJ0800022	Socket, Fuse Holder
J017	1	YJ0400056	Jack, AC Outlet
J018	1	YJ0400056	Jack, AC Outlet
J019	1	YT0201009	Terminal, Quad. Out
L001	1	LF1140082	Antenna Coil, LW, MW
C001	1	DK1710301	Ceramic Cap., 0.01μF ±20% 50V
C006	1	DK1710301	Ceramic Cap., 0.01μF ±20% 50V
J005	1	YT0204008	Terminal, 4P Pin-Jack
C002	1	DK1710301	Ceramic Cap., 0.01μF ±20% 50V
J006	1	YT0208006	Terminal, 8P Pin-Jack
J015	1	YJ0100098	Jack, Headphone
C005	1	DF1722380	Film Cap., 0.022μF 1000V
S002	1	SP0201015	Power Switch
M001	1	IM1104203	Meter, AM/FM Strength
M005	1	IM1104202	Meter, Center
M003	1	IN1008034	Lamp, Stereo Indicator
M004	1	IN1008007	Lamp, Meter
M006	1	IN1008007	Lamp, Meter
J002	1	YJ0800019	Socket, Lamp
J008	1	YJ0800019	Socket, Lamp
			PZ01 DIAL LAMP BOARD
PZ01	1	YD2886016	P. W. Board
	1	ZZ2889116	P. W. Board Assembly
MZ01	1	IN1008007	Lamp
MZ02	1	IN1008007	Lamp
MZ03	1	IN1008007	Lamp
MZ04	1	IN1008007	Lamp

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
MZ05	1	IN1008007	Lamp
JZ01 ~ JZ10 JZ11 ~ JZ14	10 4	YJ0800017 YP1000120	Socket Plug
			PE01 PRE-TONE AMP. BOARD
PE01	1	YD2915108	P. W. Board
	1	ZZ2958308	P. W. Board Assembly
PE08	2	293311802	Spacer
RE01	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE02	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE03	1	RT0539114	Resistor, 390Ω ±5% ¼W
RE04	1	RT0539114	Resistor, 390Ω ±5% ¼W
RE05	1	RN0510514	Resistor, 1MΩ ±5% ¼W
RE06	1	RN0510514	Resistor, 1MΩ ±5% ¼W
RE07	1	RN0510414	Resistor, 100kΩ ±5% ¼W
RE08	1	RT0510314	Resistor, 10kΩ ±5% ¼W
RE09	1	RT0527314	Resistor, 27kΩ ±5% ¼W
RE10	1	RT0527314	Resistor, 27kΩ ±5% ¼W
RE11	1	RT0510214	Resistor, 1kΩ ±5% ¼W
RE12	1	RT0510214	Resistor, 1kΩ ±5% ¼W
RE13	1	RT0575214	Resistor, 7.5kΩ ±5% ¼W
RE14	1	RT0575214	Resistor, 7.5kΩ ±5% ¼W
RE15	1	RT0510214	Resistor, 1kΩ ±5% ¼W
RE16	1	RT0510214	Resistor, 1kΩ ±5% ¼W
RE17	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE18	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE19	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
RE20	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
RE21	1	RT0512314	Resistor, 12kΩ ±5% ¼W
RE22	1	RT0512314	Resistor, 12kΩ ±5% ¼W
RE23	1	RT0515414	Resistor, 150kΩ ±5% ¼W
RE24	1	RT0515414	Resistor, 150kΩ ±5% ¼W
RE25	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
RE26	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
RE27	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
RE28	1	RT0556214	Resistor, 5.6kΩ ±5% ¼W
RE29	1	RT0527314	Resistor, 27kΩ ±5% ¼W
RE30	1	RT0527314	Resistor, 27kΩ ±5% ¼W
RE31	1	RT0512314	Resistor, 12kΩ ±5% ¼W
RE32	1	RT0512314	Resistor, 12kΩ ±5% ¼W
RE33	1	RT0515314	Resistor, 15kΩ ±5% ¼W
RE34	1	RT0515314	Resistor, 15kΩ ±5% ¼W
RE35	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE36	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE37	1	RT0527314	Resistor, 27kΩ ±5% ¼W
RE38	1	RT0527314	Resistor, 27kΩ ±5% ¼W
RE39	1	RT0522514	Resistor, 2.2MΩ ±5% ¼W
RE40	1	RT0522514	Resistor, 2.2MΩ ±5% ¼W
RE41	1	RT0568314	Resistor, 68kΩ ±5% ¼W
RE42	1	RT0568314	Resistor, 68kΩ ±5% ¼W
RE43	1	RT0547314	Resistor, 47kΩ ±5% ¼W
RE44	1	RT0547314	Resistor, 47kΩ ±5% ¼W
RE45	1	RT0510314	Resistor, 10kΩ ±5% ¼W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
RE46	1	RT0510314	Resistor, 10kΩ ±5% ¼W
RE47	1	RT0522114	Resistor, 220Ω ±5% ¼W
RE48	1	RT0522114	Resistor, 220Ω ±5% ¼W
RE49	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE50	1	RT0547414	Resistor, 470kΩ ±5% ¼W
RE51	1	RM0104005	Variable Resistor, 100kΩ (B) HIGH
RE52	1	RM0104005	Variable Resistor, 100kΩ (B) MID
RE53	1	RM0104005	Variable Resistor, 100kΩ (B) LOW
RE54	1	RT0582114	Resistor, 820Ω ±5% ¼W
RE55	1	RC0000012	Resistor, 0Ω
RE56	1	RC0000012	Resistor, 0Ω
CE01	1	DF1722405	Film Cap., 0.22μF 50V ±20%
CE02	1	DF1722405	Film Cap., 0.22μF 50V ±20%
CE03	1	EA1060359	Electrolytic Cap., 10μF 35V $^{+100}_{-10}$%
CE04	1	EA1060359	Electrolytic Cap., 10μF 35V $^{+100}_{-10}$%
CE05	1	EE4750251	Electrolytic Cap., 4.7μF 25V ±20%
CE06	1	EE4750251	Electrolytic Cap., 4.7μF 25V ±20%
CE07	1	DD1610101	Ceramic Cap., 100pF 50V ±10%
CE08	1	DD1610101	Ceramic Cap., 100pF 50V ±10%
CE09	1	DF1622205	Film Cap., 2200pF 50V ±10%
CE10	1	DF1622205	Film Cap., 2200pF 50V ±10%
CE11	1	DF1668205	Film Cap., 6800pF 50V ±10%
CE12	1	DF1668205	Film Cap., 6800pF 50V ±10%
CE13	1	DF1622305	Film Cap., 0.022μF 50V ±10%
CE14	1	DF1622305	Film Cap., 0.022μF 50V ±10%
CE15	1	DF1622305	Film Cap., 0.022μF 50V ±10%
CE16	1	DF1622305	Film Cap., 0.022μF 50V ±10%
CE17	1	DF1610305	Film Cap., 0.01μF 50V ±10%
CE18	1	DF1610305	Film Cap., 0.01μF 50V ±10%
CE19	1	EE1050501	Electrolytic Cap., 1μF 50V ±20%
CE20	1	EE1050501	Electrolytic Cap., 1μF 50V ±20%
CE21	1	EE3350501	Electrolytic Cap., 33μF 50V ±20%
CE22	1	EE3350501	Electrolytic Cap., 33μF 50V ±20%
CE23	1	EQ1050501	Electrolytic Cap., 1μF 50V ±30%
CE24	1	EQ1050501	Electrolytic Cap., 1μF 50V ±30%
CE25	1	EA2270359	Electrolytic Cap., 220μF 35V $^{+100}_{-10}$%
HE01	1	HT313283A	Transistor, 2SC1328 S, T, U
HE02	1	HT313283A	Transistor, 2SC1328 S, T, U
HE03	1	HT107222A	Transistor, 2SA722 S, T
HE04	1	HT107222A	Transistor, 2SA722 S, T
HE05	1	HT313283A	Transistor, 2SC1328 S, T, U
HE06	1	HT313283A	Transistor, 2SC1328 S, T, U
HE07	1	HT107222A	Transistor, 2SA722 S, T
HE08	1	HT107222A	Transistor, 2SA722 S, T
JE01 ~ JE08	8	YP1000113	Plug
			PH01 FILTER BOARD
PH01	1	YD2915005	P. W. Board
	1	ZZ2974105	P. W. Board Assembly
RH01	1	RT0510214	Resistor, 1kΩ ±5% ¼W
RH02	1	RT0510214	Resistor, 1kΩ ±5% ¼W
RH04	1	RT0510514	Resistor, 1MΩ ±5% ¼W
RH05	1	RT0510514	Resistor, 1MΩ ±5% ¼W
RH06	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W
RH07	1	RT0547214	Resistor, 4.7kΩ ±5% ¼W

REF DESIG.	Q'TY	PART NO.	DESCRIPTION
RH08	1	RT0522514	Resistor, 2.2MΩ ±5% ¼W
RH09	1	RT0522514	Resistor, 2.2MΩ ±5% ¼W
CH01	1	DF1633305	Film Cap., 0.033μF 50V ±10%
CH02	1	DF1633305	Film Cap., 0.033μF 50V ±10%
CH03	1	DF1668205	Film Cap., 0.0068μF 50V ±10%
CH04	1	DF1668205	Film Cap., 0.0068μF 50V ±10%
SH01	1	SP0404013	Push Switch
JH01 ~ JH17	17	YP1000113	Plug
			PT01 MAIN-REMOTE SELECTOR BOARD
PT01	1	YD2915110	P. W. Board
	1	ZZ2915310	P. W. Board Assembly
PT07	4	344411805	Spacer
RT01	1	RT0568314	Resistor, 68kΩ ±5% ¼W
RT02	1	RT0568314	Resistor, 68kΩ ±5% ¼W
RT03	1	RT0515314	Resistor, 15kΩ ±5% ¼W
RT04	1	RT0515314	Resistor, 15kΩ ±5% ¼W
RT05	1	GJ0533102	Resistor, 330Ω ±5% 2W
RT06	1	GJ0533102	Resistor, 330Ω ±5% 2W
RT07	1	GU0515112	Resistor, 150Ω ±5% ½W
RT08	1	GU0515112	Resistor, 150Ω ±5% ½W
CT01	1	DD1612101	Ceramic Cap., 120pF 50V ±10%
CT02	1	DD1612101	Ceramic Cap., 120pF 50V ±10%
CT03	1	DF1627305	Film Cap., 0.027μF 50V ±10%
CT04	1	DF1627305	Film Cap., 0.027μF 50V ±10%
ST01	1	SP0404011	Push Switch
JT01 ~ JT16	16	YP1000120	Plug
R002	1	RM0254022	Variable Resistor, Volume
S001	1	SR0806019	Rotary Switch, Selector
R004	1	GF0533012	Resistor, 33Ω ±5% ½W
S002	1	SR1106001	Rotary Switch, Selector (Tuner)
R001	1	RS0504004	Variable Resistor, Balance
M002	1	IN1008030	Lamp, Pointer
J003	1	YL0102003	Terminal
L004	1	LB3007526	Balun Coil
J007	1	YL0105002	Terminal
W001	1	YC0190003	AC Cord
C003	1	EC6880352	Electrolytic Cap., 6800μF 35V
C004	1	EC6880352	Electrolytic Cap., 6800μF 35V
L005	1	TS1960219	Power Transformer
F801	1	FS1010090	Fuse, SGA, 1A, 20 m/m
F802	1	FS1020090	Fuse, SGA, 2A, 20 m/m
F001	1	FS1015090	Fuse, SGA, 1.5A, 20 m/m

TECHNICAL SPECIFICATIONS

AUDIO CIRCUITS:

Rated Power Output (Continuous Average per Channel, All Channels Driven)
- Power Output ..... 25 Watts 4 Ohms
  25 Watts 8 Ohms
  12.5 Watts 16 Ohms
- Power Band ..... 20 Hz to 20 kHz
- THD 0.5%

High-level hum and noise (ref. 20 Watts at 8 ohms) ..... -77 dB
Phono hum and noise ..... 1.5 μV equivalent input
Dynamic range (phono input to tape recording output) ..... 96 dB
I.M. Distortion (SMPTE), at rated power 0.9%
Distortion decreases as output is lowered
Total Harmonic Distortion, at rated power ..... 0.5% Maximum
Distortion decreases as output is lowered
Power Bandwidth (IHF) for 0.5% THD ..... 10 Hz to 50,000 Hz
Damping Factor (ref. 8 ohms) ..... Greater than 45
Frequency Response
- Through phono ..... 2.0 dB

Input Sensitivity (for 15 Watts at 8 ohms)
- High-level ..... 180 mV
- Phono (1,000 Hz) ..... 1.8 mV

Input Impedance
- High-level ..... 80,000 Ohms
- Phono ..... 47,000 Ohms

Channel Separation 20 Hz to 10,000 Hz ..... 30 dB Minimum

FM SECTIONS:

IHF Usable Sensitivity ..... 2.5 μV
(DIN) Sensitivity ..... 2.2 μV
Selectivity ..... 50 dB
Noise Quieting ..... -70 dB at 1,000 μV
Total Harmonic Distortion, 400 Hz, 100% Mod ..... 0.3% Maximum
Frequency Response (ref. 75 μ sec. de-emphasis) ..... ±1 dB 50 Hz to 15 kHz
Stereo Separation ..... 1,000 Hz 40 dB
Sub Carrier (38 kHz) Suppression ..... 60 dB

AM (LW, MW) SECTION:

- LW Sensitivity ..... 100 μV
- MW Sensitivity ..... 20 μV
- LW Image Rejection ..... Greater than 50 dB
- MW Image Rejection ..... Greater than 60 dB

GENERAL:

Power Requirements ..... 220V ~ 50 Hz
- At rated output, both channels operating ..... 130 Watts
- Idling Power (Volume Control at zero) ..... 30 Watts

Dimensions
- Panel Width ..... 43.4 cm (17-3/8 Inches)
- Panel Height ..... 13.4 cm (5-3/8 Inches)
- Depth ..... 35 cm (14 Inches)

Weight
- Unit alone ..... 26.5 lbs
- Packed for shipment ..... 34.2 lbs

* These specifications and exterior designs may be changed for improvement without advance notice.

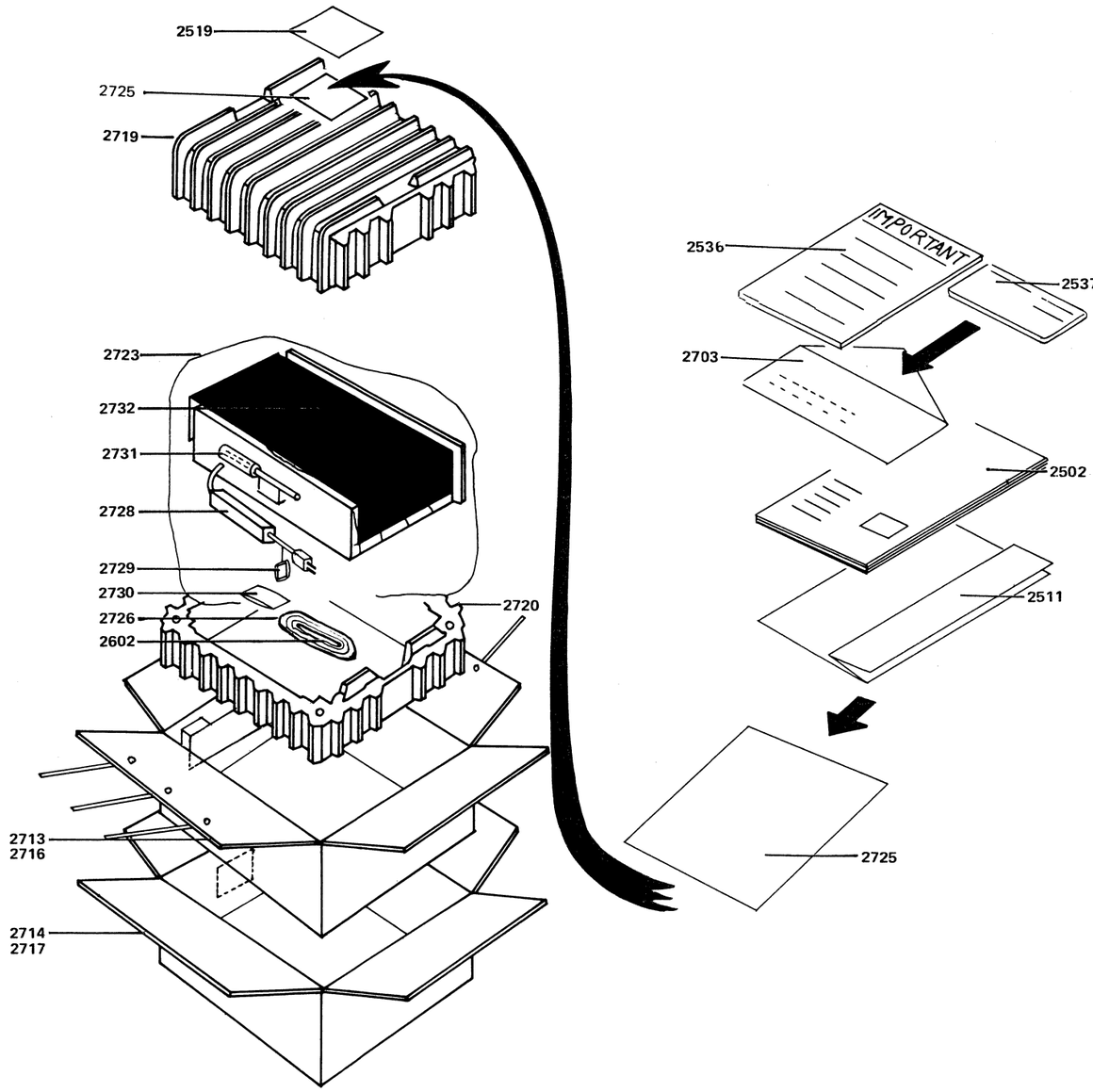

Figure 29. Packing

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.

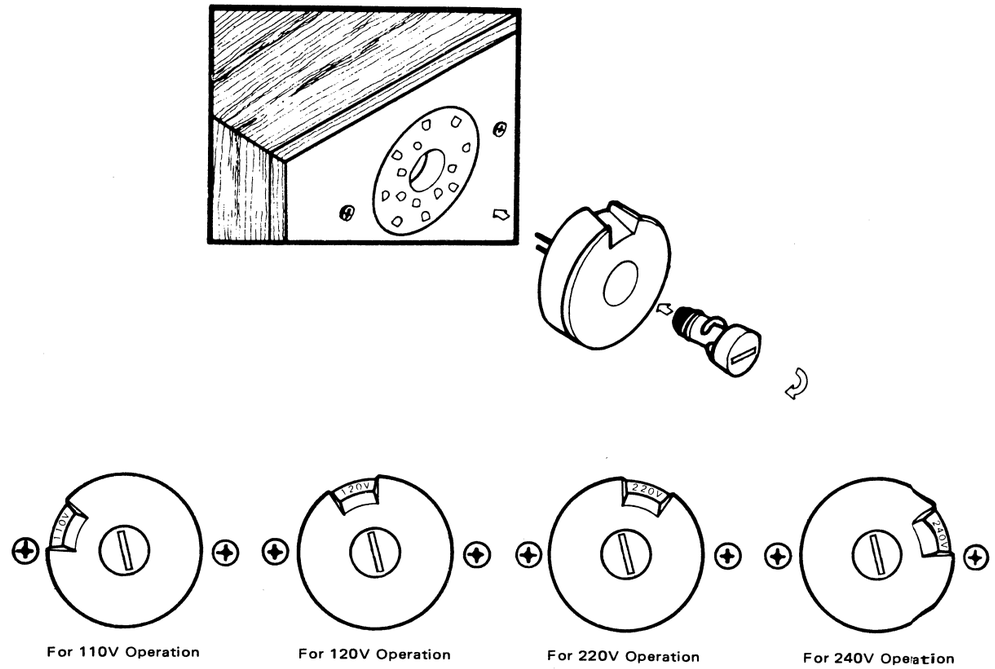

Figure 30. Voltage Conversion Chart

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.

marantz

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