

Pm-6

märantz®

Model Pm-6

Stereo Pre Main Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail price quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA

Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

AUSTRALIA

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

JAPAN

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
Kanagawa, Japan

EUROPE

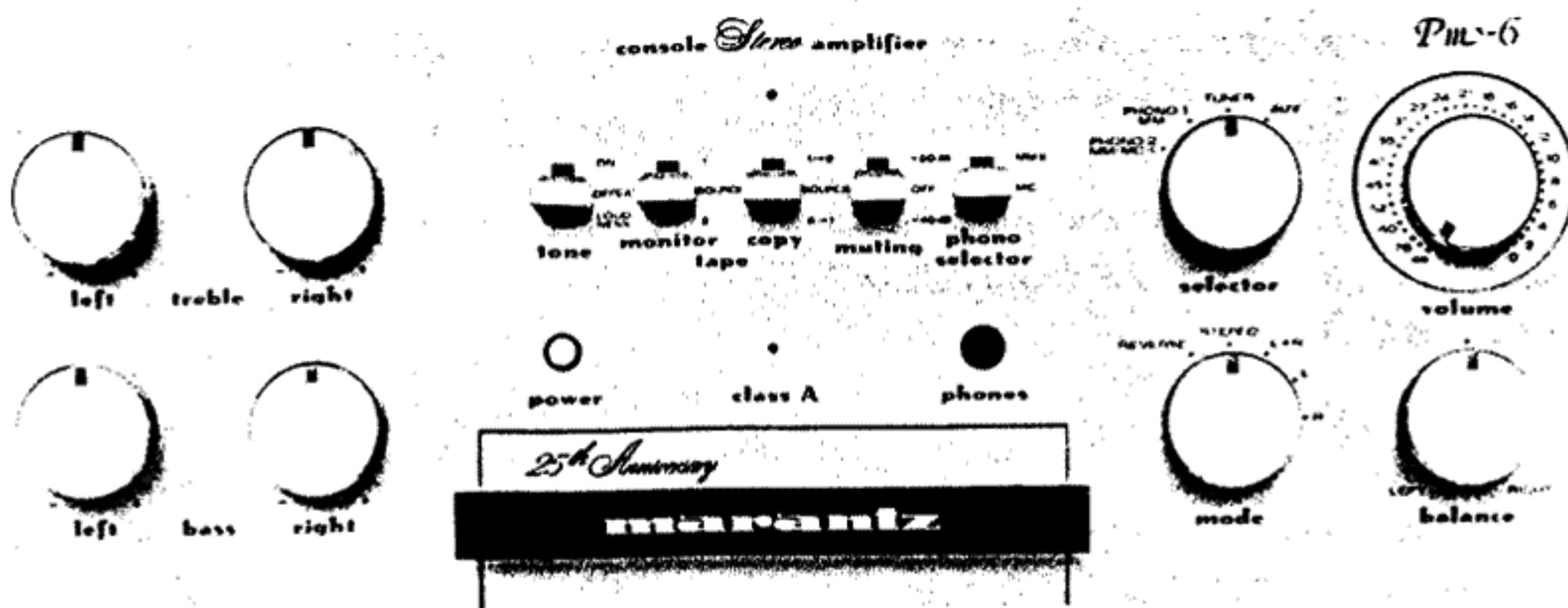
Marantz Europe, S.A.
Avenue Leopold III, 2
7120 Peronne-les-Binche
Belgium

Marantz France
Rue Louis Armand 9
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Marantz GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.



■特長

■MCヘッドアンプ(13石構成)

初段は NPN 超ローノイズトランジスタ 4 本を並列に組合せたものと PNP 超ローノイズトランジスタ 4 本を組合せたものとでブッシュプル構成とし、さらに 2 段目の増幅段もブッシュプル構成とし出力段は十分に電流を流したSEPP構成の片チャンネル当り13石ものトランジスタを使用した本格的な MC ヘッドアンプです。

特に S/N 比を改善するためフィードバック回路のインピーダンスを徹底的に小さくしています。定格入力 $125\mu V$ で電圧利得は 20 倍 (26dB) となっています。

■PHONOアンプ(11石構成)

この PHONO アンプは TIM 歪の低減と高 S/N を実現するためにマランツ独特の11石構成の完全全段ブッシュプル回路としています。

初段は N チャンネル、P チャンネルの超ローノイズ、ハイ G_m の FET をブッシュプルに組合せ、さらにカスコードカレントミラー回路を使用し入力段のインピーダンス変化による特性悪化を防止しています。

次段は段間エミッターフォロワーによるバッファアンプを通り 2 段目ブッシュプル電圧増幅段に入ります。

さらに出力段はどのような負荷でも十分にドライブすることの出来る SEPP 回路とし S/N 比改善のためイコライザ素子のインピーダンスも従来のものに比べ十分低くし、定格入力時の S/N も 90dB を達成しています。

またイコライザ素子には誤差 1% 以内の金属被膜抵抗と 2% 以内のポリプロピレンコンデンサを使用し 20Hz ~ 20kHz 以内での RIAA 偏差を 0.2dB 以内に抑えています。

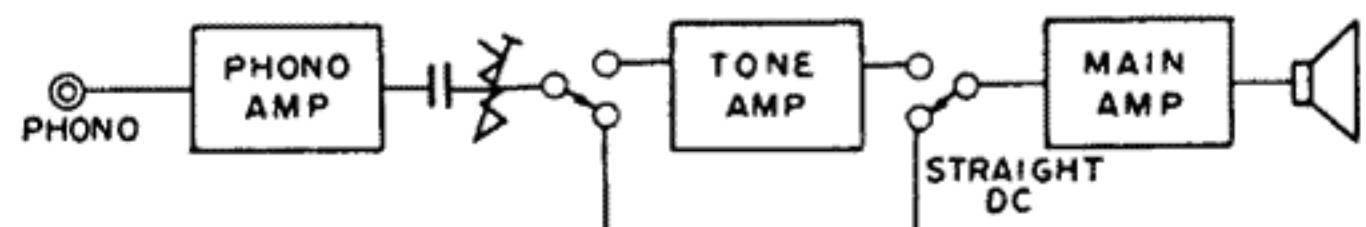
なお PHONO 1 のポジションではカートリッジの最適負荷を選ぶためカートリッジロードを $27k\Omega$ 、 $47k\Omega$ 、 $100k\Omega$ に切換えることができます。

さらに電源 ON-OFF 時の不快なノイズを取り除くためにフォノアンプ出力にミューティングリレーを挿入し万全を期しています。

さらにターンテーブルのゴロやフラッターを取り除くために出力部に EQ Subsonic フィルターを入れています。

■STRAIGHT DC (OPERATION スイッチ)

PHONO アンプの出力を直接メインアンプに送り込むことによって段間のカップリングコンデンサを 1 つだけにすることができます。



このスイッチを操作することによって STRAIGHT DC-TONE IN-TONE OUT の動作状態を選ぶことが出来ます。なお各動作でのゲイン及び入力感度の変化はありません。

■メインアンプ

STRAIGHT DC 動作をさせるため入力感度は $150mV$ で出力 $120W$ (8Ω 、AB クラス) を得られるゲインを持っています。完全 DC アンプとしてマランツ独特の回路方式とし TIM 歪の低減と DC サーボ回路により DC ドリフトの低減に万全を期しています。

電圧増幅段(Voltage Amp)

入力段はペア特性の良いデュアル FET によるソースフォローアンプを使用し入力段のインピーダンス変化による特性悪化を防いでいます。インピーダンスを下げた信号はデュ

□調整方法

アルトランジスタによる差動アンプで増幅されますが、この負荷にはやはりリデュアルトランジスタを使った能動バランス負荷回路を使用しています。

差動出力の片側は位相反転し、それぞれの差動出力は段間ミッタフォロアーによるバッファーアンプを通し2段目のブッシュブル増幅段に入ります。

電力増幅段(Power output)

電力増幅段には新開発のスーパーハイfT(70~90MHz)のパワートランジスタを並列接続した3段ダーリントン方式の出力段でバイアス電流及び出力供給電圧を切換えることにより純Aクラス30W(8Ω)とABクラス120W(8Ω)を切り換えることが出来ます。

●バイアス電流調整

(1)CLASS B (フロントパネル、ポケットカバー内のCLASS@のスイッチをOFFにする)

調整個所 RH07, RH08(1kΩ)

入 力 _____

出 力 8Ω (LOAD)

測定個所 Lch TP1~TP2間、Rch TP4~TP5間にデジタルボルトメーターを接続し端子電圧が安定する(約30秒~1分)まで待ち、その後14mVになるようRH07、RH08を調整します。

(2)CLASS A (フロントパネルポケットカバー内のCLASS@のスイッチをONにする)

調整個所 RH05, RH06 4.7kΩ

入 力 _____

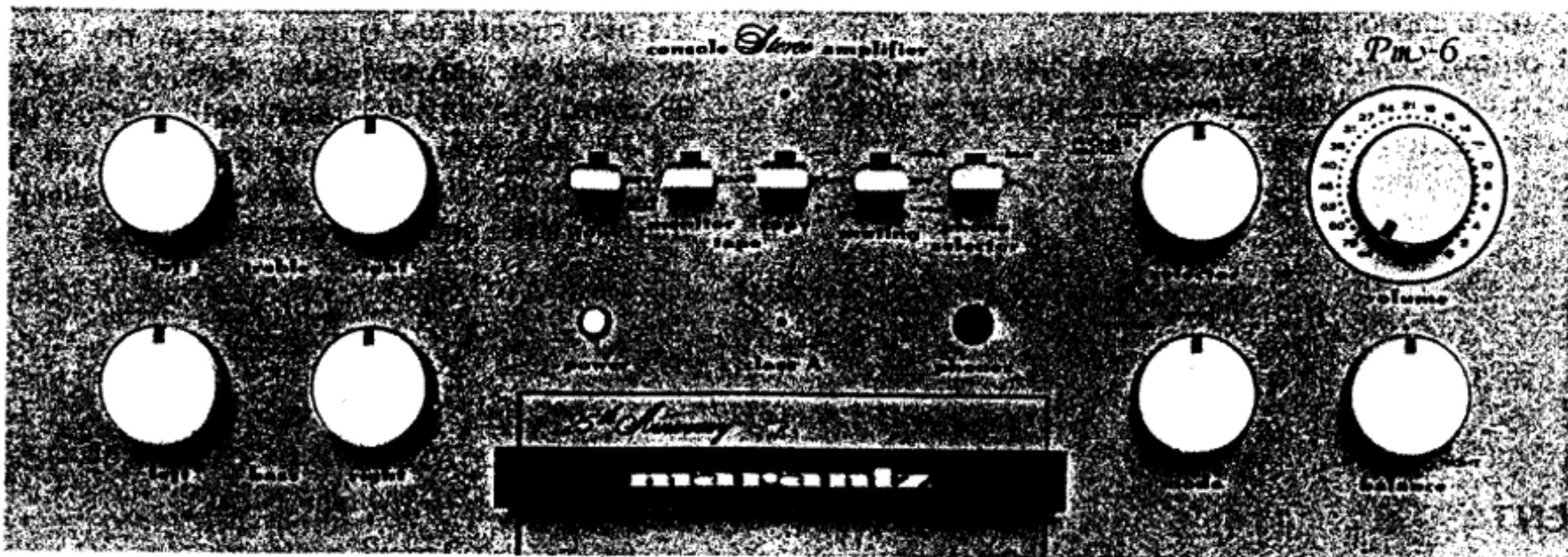
出 力 8Ω (LOAD)

測定個所 Lch TP1~TP2間、Rch TP4~TP5間にデジタル、ボルトメーターを接続し端子電圧が安定する(約30秒~1分)まで待ち、その後380mVになるようRH05、RH06を調整します。

□サービスに必要な測定器

項目	使用法
電率計	アンプ出力の電圧を測定する。
低周波発振器	正弦波および矩形波の信号源として使用する。
オシロスコープ	波形分析およびトラブル・シューティングに使用する。
V T V M	電圧および抵抗値の測定に使用する。
交流ワット・メーター	アンプの一次側消費電力をモニターする。
電源電圧計	アンプの一次側電源電圧をモニターする。
ストライダック (0~140VAC, 10A)	アンプの一次側電圧を調節する。
ショート用プラグ	雑音を拾わないようにアンプ入力を短絡するのに使用する。
出力負荷抵抗 (8Ω±0.5%, 250W)	アンプの出力に8Ωの負荷を与える。
出力負荷抵抗 (4Ω±0.5%, 250W)	アンプの出力に4Ωの負荷を与える。

MARANTZ MODEL Pm-6 STEREO PRE MAIN AMPLIFIER



FEATURES

• MC HEAD amplifier

The first stage uses 4 super-low noise NPN transistors and 4 super-low noise PNP transistors connected in parallel to form a push-pull circuit. The second stage is also a push-pull circuit. The output stage is a high gain SEPP amplifier. Totally, 13 transistors are used for a channel. The feedback circuit has very low impedance, thus improving the S/N. With this design, this MC head amplifier provides a high voltage gain (20 dB or 10 times) at a rated input of 220 μ V.

• PHONO amplifier

The PHONO amplifier is a unique Marantz full-stage push-pull circuit using 11 transistors that ensures low TIM distortion and a high S/N.

The first stage uses super-low noise, high Gm FETs in push-pull connection (N and P channels) and a cascode current mirror circuit to prevent the deterioration of the characteristics due to changes in input impedance. The PHONO signal is fed through the emitter follower buffer amplifier to the push-pull voltage amplifier in the second stage.

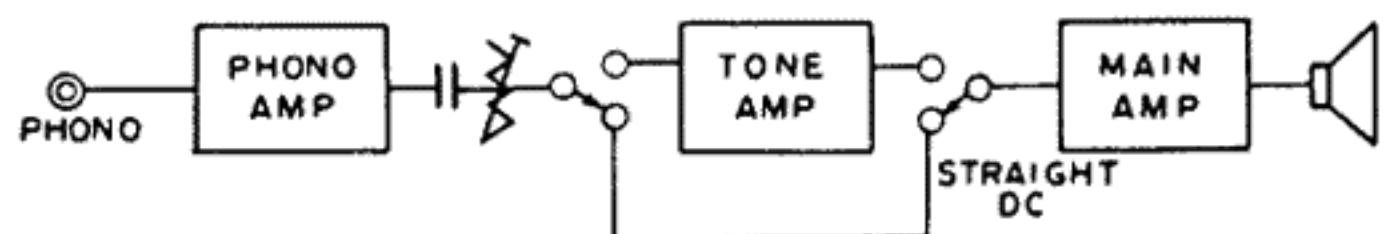
The output stage is an SEPP circuit which has sufficient driving ability. The equalizer circuit has a very low impedance so that the S/N is a high 90 dB at the rated input. This circuit uses high quality metallic film resistors ($\pm 1\%$) and polypropylene capacitors ($\pm 2\%$) to reduce the deviation from the RIAA characteristic to less 0.2 dB at 20 Hz – 20 kHz.

Optimum cartridge load can be selected between 27 k Ω , 47 k Ω and 100 k Ω by using the PHONO switch on the front panel. The output stage includes a muting relay to eliminate the shock noise which is normally generated when the power is turned on and off.

The output stage is also provided with an EQ subsonic filter to eliminate wow and flutter generated by the turntable.

• Straight DC (Operation switch)

By using this switch, the output of the PHONO amplifier, passing through the coupling capacitor, is directly fed to the main amplifier without affecting the gain and input sensitivity, thus the main amplifier operates in the STRAIGHT DC/TONE-IN/TONE-OUT mode.



• Main amplifier

The main amplifier has sufficient gain to provide 120W (class AB, 8 ohms) of output power at 150 mV input to ensure satisfactory STRAIGHT DC operation. This full-stage DC amplifier employs a unique Marantz circuit design to minimize TIM distortion and a DC servo circuit to eliminate DC drift.

Voltage amplifier stage

The input stage uses a matched pair of dual FETs as a source follower amplifier to prevent the deterioration of the characteristics due to changes in input impedance. The low impedance signal is amplified by the dual transistor differential amplifier with an active load balancing circuit. The differential output is fed through the emitter follower buffer amplifier to the push-pull amplifier in the next stage.

• PLUS

The speaker protection circuit uses high performance ICs and relays. The power supply circuit is complete with a large, high regulation transformer and large capacity electrolytic audio capacitors.

The power output circuit is equipped with high efficiency heat sinks to cool the power transistors, thus providing continuous high output power.

Power amplifier stage

The power amplifier stage uses newly developed super-high f_T (70 ~ 90 MHz) power transistors connected in parallel to form a 3-stage Darlington circuit. By selecting the bias current and output voltage, the output stage can be switched between pure class A amplification, 30W (8 ohms) and class AB amplification, 120W (8 ohms). The use of unique Marantz push-pull and 2-pole phase compensating circuits provides excellent open-loop characteristics and distortion-free output.

ADJUSTMENT

• Bias current adjustment

1. Class B (Set the front panel CLASS A button to the OFF position.)

Adjustment: RH07 and RH08 (1 kΩ)

Input:

Output: 8-ohm load

Procedure: Connect a digital voltmeter across TP1 and TP2 (L ch.) and across TP4 and TP5 (R ch.). After the terminal voltages stabilize (30 ~ 60 seconds later), adjust RH07 and RH08 until the voltmeter reads 14 mV for each channel.

2. Class A (Press the front panel CLASS A button to the ON position.)

Adjustments: RH05 and RH06 (4.7 kΩ)

Input:

Output: 8-ohm load

Procedure: Connect a digital voltmeter across TP1 and TP2 (L ch.) and across TP4 and TP5 (R ch.). After the terminal voltages stabilize (30 ~ 60 seconds later), adjust RH05 and RH06 until the voltmeter reads 380 mV for each channel.

REQUIRED MEASURING INSTRUMENTS

Table 1. List of required measuring instruments

Item	Purpose
Distortion meter	Measures distortion in amplifier output and its voltage.
Audio frequency generator	Signal source for audio-frequency sine and square waves.
Oscilloscope	Waveform analysis and troubleshooting.
V T V M	Voltage and resistance measurement.
AC power meter	Monitors amplifier's primary power consumption.
Voltmeter	Monitors amplifier's primary supply voltage.
Slidac (0 ~ 140V AC, 10A)	Adjusts amplifier's primary supply voltage.
Shorting plug	Used to short input jacks for noise prevention.
Output load resistor (8Ω ± 0.5%, 250W)	Load to amplifier output (8Ω).
Output load resistor (4Ω ± 0.5%, 250W)	Load to amplifier output (4Ω).

Model Pm-6 (F)

Model Pm-6 (E)

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION	REF. DESIG.	Q'TY	PART NO.	DESCRIPTION
				PE01	1 1	WK21441820 ZZ21441820	P.W. Board, Tone Amp (R) P.W. Board Assembly

TECHNICAL SPECIFICATIONS

AUDIO SECTION

Rated Power Output (20 Hz to 20 kHz, both channels driven)	120W x 2 (8Ω Load) Class AB 30W x 2 (4Ω Load) Class A
Power Bandwidth (8Ω Load, THD 0.05%)	5 Hz to 100 kHz
THD (20 Hz to 20 kHz, 8Ω Load)	0.015%
I.M. Distortion	0.015%
Frequency Response (20 Hz to 20 kHz) (+0, -1 dB)	+0, -0.2 dB 5 Hz to 100 kHz
Damping Factor (8Ω Load)	100
Input Sensitivity and Impedance (at MAIN IN)	1.5V/30 kΩ
Phono 1 (MM)	2.5 mV/27 kΩ/47 kΩ/100 kΩ
Phono 1 (MC)	125 µV/75Ω
Phono 2 (MM)	2.5 mV/47 kΩ
High Level	150 mV/40 kΩ
Rated Power Output and Impedance	
Pre Out	1.5V/220Ω
Tape Out	150 mV/600Ω
Frequency Response, RIAA 20 Hz to 20 kHz	±0.2 dB
Equivalent Input Noise (Phono, IHF-A)	0.24 µV
Dynamic Range (Phono)	120 dB
Signal-to-Noise Ratio (IHF-A Network)	
Phono (MM)	86 dB
Phono (MC)	68 dB
TAPE/TUNER/AUX	110 dB
Phono MAX Input Voltage, 1 kHz	
Phono (MM)	220 mV
Phono (MC)	10 mV
Tone Control Response	
Bass Range 100 Hz	±8 dB
TREBLE Range 10 kHz	±8 dB

GENERAL

Power Requirements	110/120/220/240 V AC, 50 /60 Hz
Power Consumption	350W
Dimensions	
Panel Width	16-3/8" (416 mm)
Panel Height	5-3/4" (146 mm)
Depth	13-1/16" (332 mm)
Weight	
Unit alone	34 lbs 1 oz (15.5 kg)

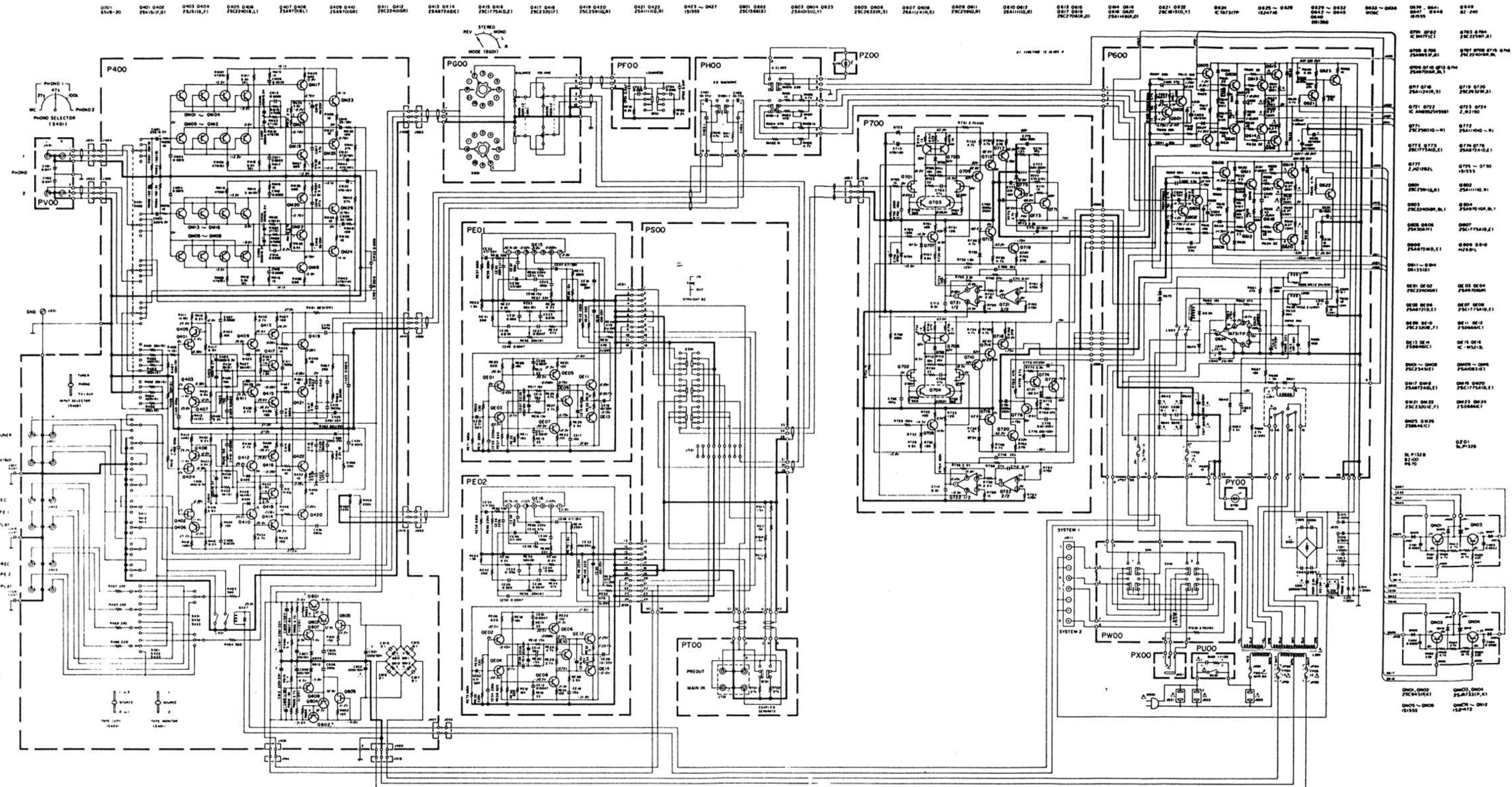
Model Pm-6 (F)

Model Pm-6 (E)

REF. DESIG.	Q'TY	PART NO.	DESCRIPTION			REF. DESIG.	Q'TY	PART NO.	DESCRIPTION		
R723	1	GD05330140	33Ω	1/4W		R723	1	GD05331140	330Ω	1/4W	
R724	1	GD05330140	33Ω	1/4W		R724	1	GD05331140	330Ω	1/4W	
R761	1	GD05474140	470KΩ	1/4W		R761	1	GD05334140	330KΩ	1/4W	
R762	1	GD05474140	470KΩ	1/4W		R762	1	GD05334140	330KΩ	1/4W	
R763	1	GD05474140	470KΩ	1/4W		R763	1	GD05334140	330KΩ	1/4W	
R764	1	GD05474140	470KΩ	1/4W		R764	1	GD05334140	330KΩ	1/4W	
C603	1	EA10602530	Elect	10μF	25V	C603	1	EA10703540	Elect	100μF	35V
C604	1	EA10602530	Elect	10μF	25V	C604	1	EA10703540	Elect	100μF	35V
C616	1	EA22708020	Elect	220μF	80V	C616	1	EA22708050	Elect	100μF	80V
C617	1	EA22708020	Elect	220μF	80V	C617	1	EA22708050	Elect	100μF	80V
						C618	1	EA22708020	Elect	220μF	80V
						C619	1	EA22708020	Elect	220μF	80V
C631	1	DF16105510	Film	1μF	±10%						
C632	1	DF16105510	Film	1μF	±10%						
C640	1	EA22601630	Elect	22μF	16V						
C641	1	DF76220500	Film	220pF	±10%	C641	1	DF76220550	Film	22pF	
C642	1	DF76220500	Film	22pF	±10%	C642	1	DF76220550	Film	22pF	
Q613	1	HT327062A0	Transistor 2SC2706 (R or O)			Q613	1	HT328372A0	Transistor 2SC2837 (R or O)		
Q614	1	HT111462A0	Transistor 2SA1146 (R or O)			Q614	1	HT111862A0	Transistor 2SA1186 (R or O)		
Q615	1	HT327062A0	Transistor 2SC2706 (R or O)			Q615	1	HT328372A0	Transistor 2SC2837 (R or O)		
Q616	1	HT111462A0	Transistor 2SA1146 (R or O)			Q616	1	HT111862A0	Transistor 2SA1186 (R or O)		
Q617	1	HT327062A0	Transistor 2SC2706 (R or O)			Q617	1	HT328372A0	Transistor 2SC2837 (R or O)		
Q618	1	HT111462A0	Transistor 2SA1146 (R or O)			Q618	1	HT111862A0	Transistor 2SA1186 (R or O)		
Q619	1	HT327062A0	Transistor 2SC2706 (R or O)			Q619	1	HT328372A0	Transistor 2SC2837 (R or O)		
Q620	1	HT111462A0	Transistor 2SA1146 (R or O)			Q620	1	HT111862A0	Transistor 2SA1186 (R or O)		
CM19	1	EA22603590	Elect	22μF	35V	CM19	1	EQ22602520	Elect	22μF	25V
CM20	1	EA22603590	Elect	22μF	35V	CM20	1	EQ22602520	Elect	22μF	25V
R809	1	GD05512140	5.1KΩ	1/4W		R809	1	GM21448710	4.87KΩ	1/4W	
R810	1	GD05512140	5.1KΩ	1/4W		R810	1	GM21448710	4.87KΩ	1/4W	
CE19	1	EA10603530	Elect	10μF	35V	CE19	1	EQ10602510	Elect	10μF	25V
CE20	1	EA10603530	Elect	10μF	35V	CE20	1	EQ10602510	Elect	10μF	25V
RE49	1	GD05471120	470Ω	1/2W		RE49	1	GG05471120	470Ω	1/2W	
RE50	1	GD05471120	470Ω	1/2W		RE50	1	GG05471120	470Ω	1/2W	
RE51	1	GD05471120	470Ω	1/2W		RE51	1	GG05471120	470Ω	1/2W	
RE52	1	GD05471120	470Ω	1/2W		RE52	1	GG05471120	470Ω	1/2W	
JX01	1	YJ01001340	Jack, Head Phone			C010	1	DF16103350	Film Cap.	0.01μF	50V
						JX01	1	YJ01001400	Jack, Head Phone		
						J063	1	YB00250070	Connective Cord		
						J064	1	YB00250080	Connective Cord		
						J065	1	YB00250090	Connective Cord		
						006L	1	201H120010	Insulator		
						P400	1	WK21441510	P.W. Board, Pre Amp		
							1	ZZ21441510	P.W. Board Assembly		
						P401	1	WH21441330	P.W. Board, MM TR		
							1	ZZ21441330	P.W. Board Assembly		
						P600	1	WK21441210	P.W. Board, Output Amp		
							1	ZZ21441210	P.W. Board Assembly		
						P700	1	WK21441220	P.W. Board, Voltage		
							1	ZZ21441220	P.W. Board Assembly		
						PE01	1	WK21441810	P.W. Board, Tone Amp (L)		
							1	ZZ21441810	P.W. Board Assembly		

回路図

Model Pm-6

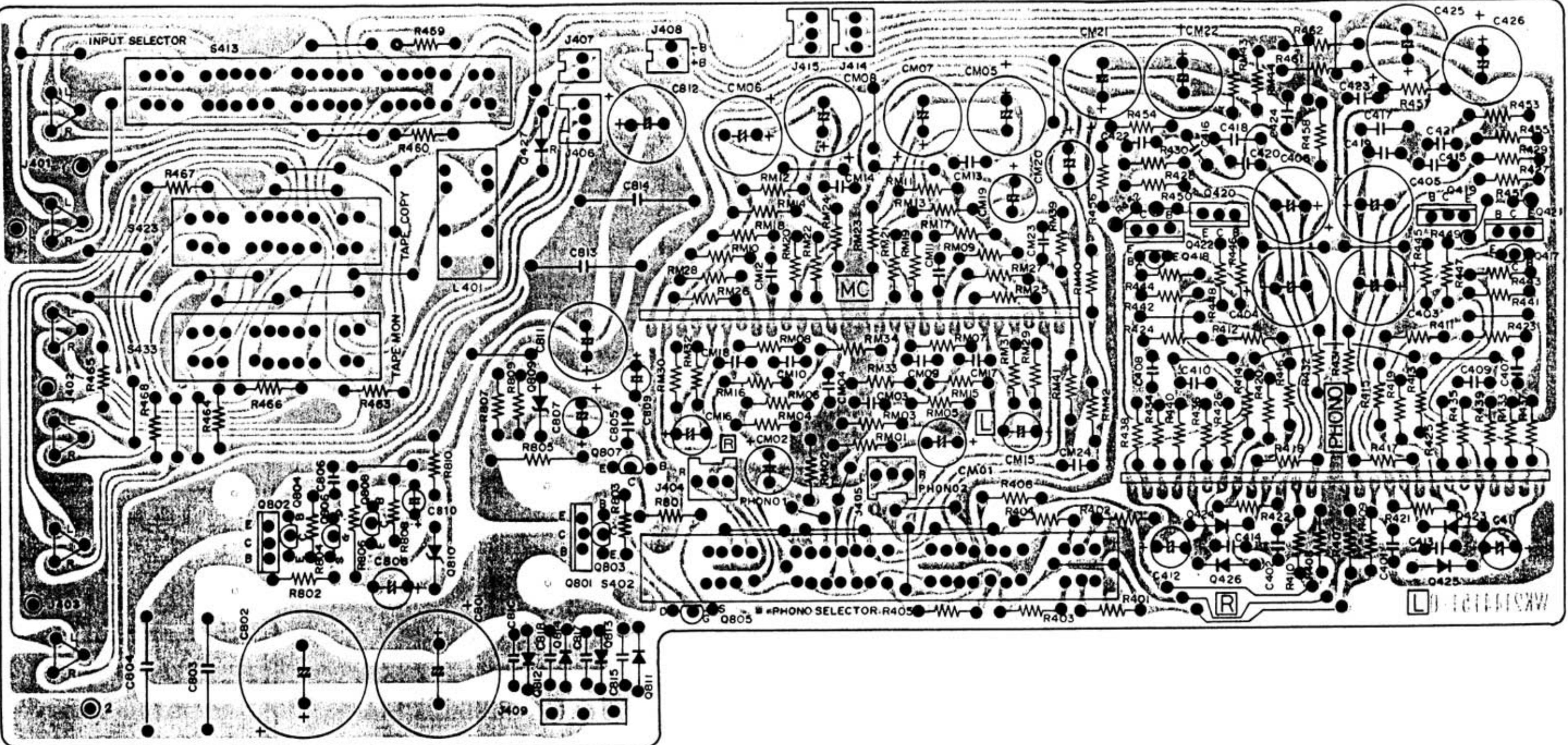
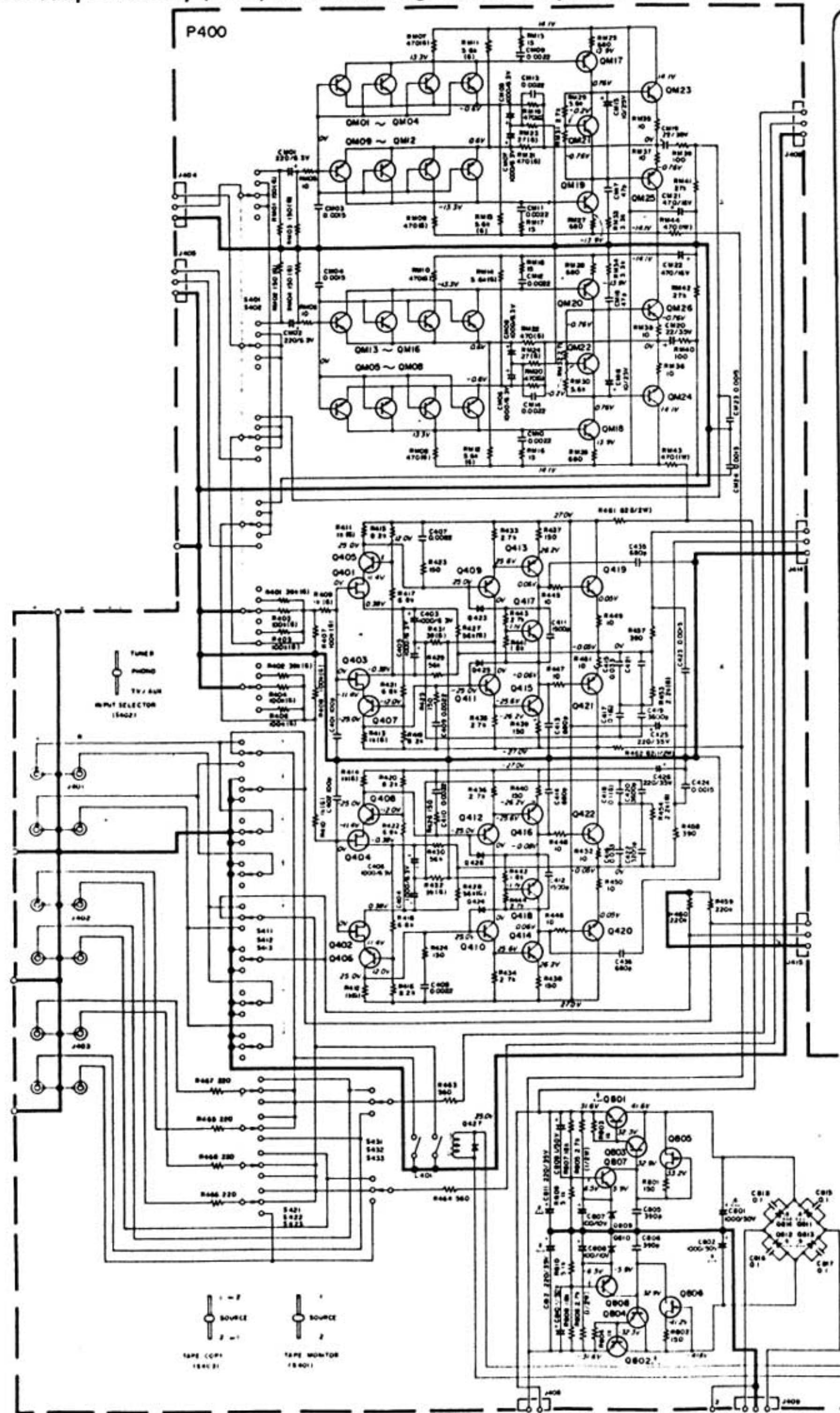


(安全上の注意: △が付いている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用してください。)

本機の回路は改良のため予告なく変更することがあります。ご了承ください。

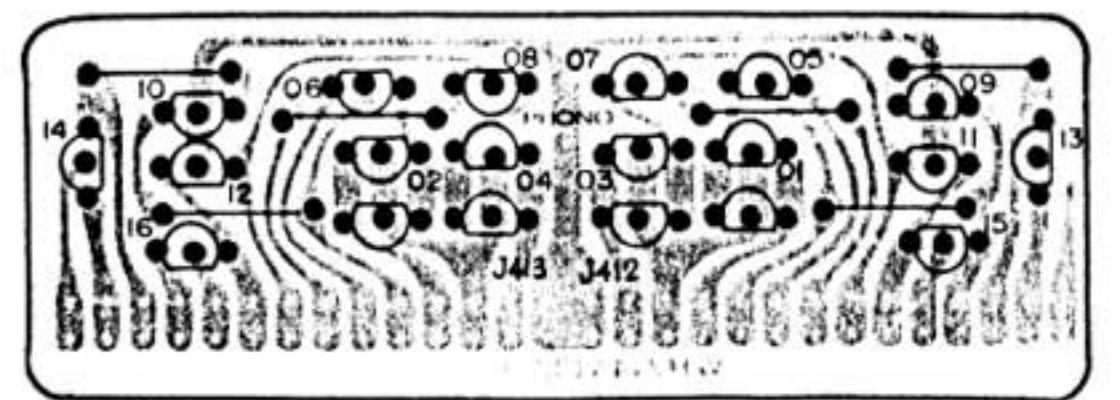
□回路図と基板

Pre Amp. Assembly (P400) Schematic Diagram and Component Locations

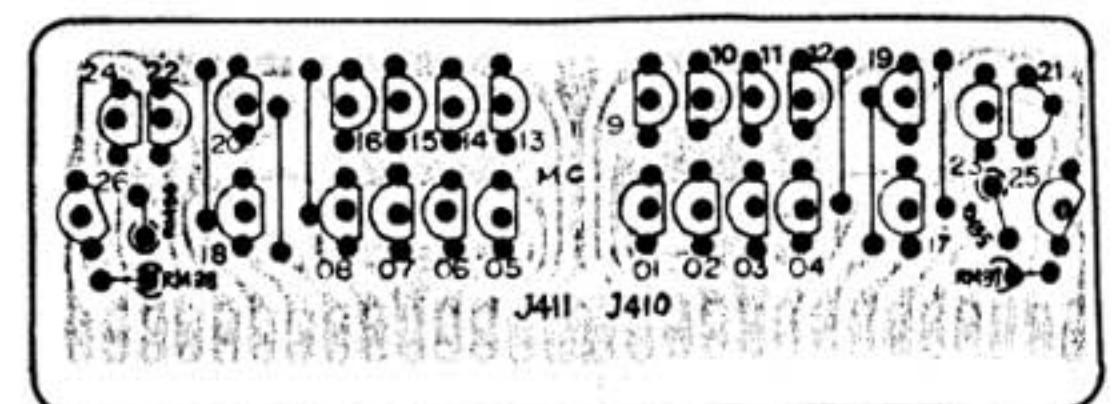


MM Transistor Block Assembly (P401)

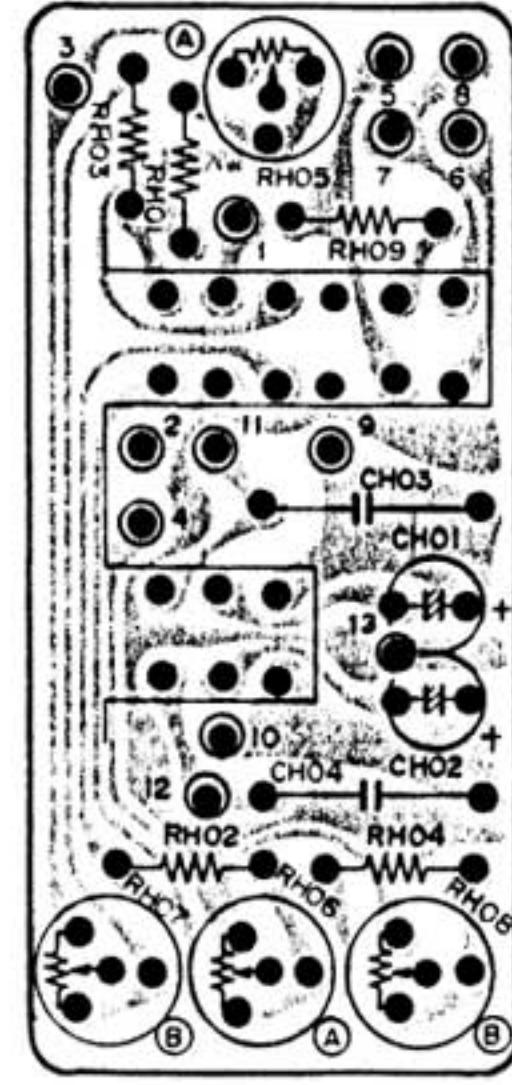
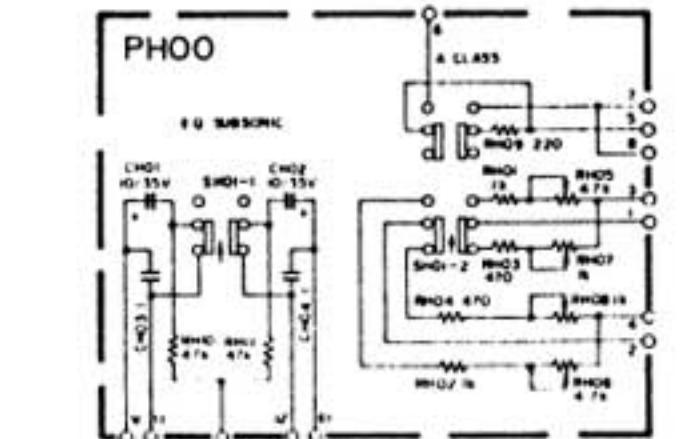
Schematic Diagram and Component Locations



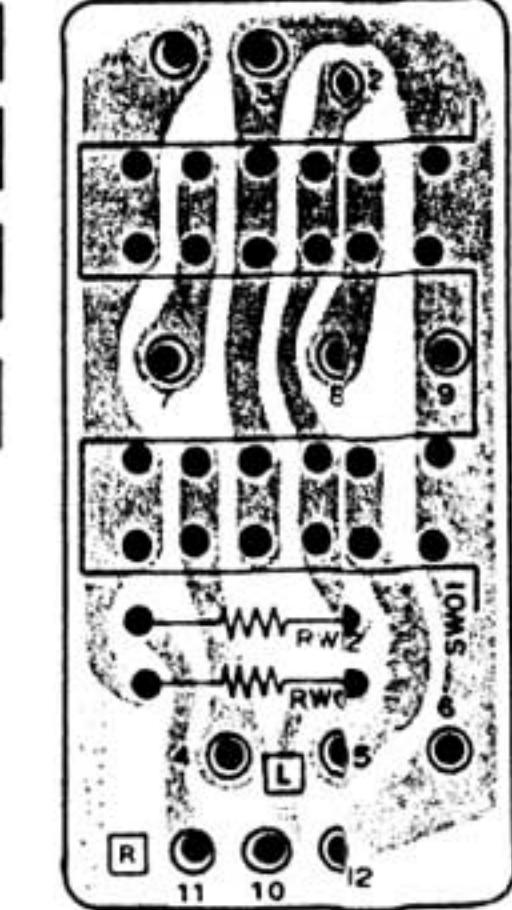
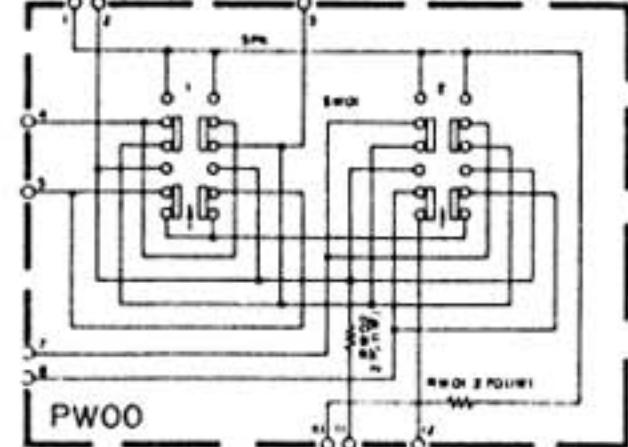
MC Transistor Block Assembly (PM01) Schematic Diagram and Component Locations



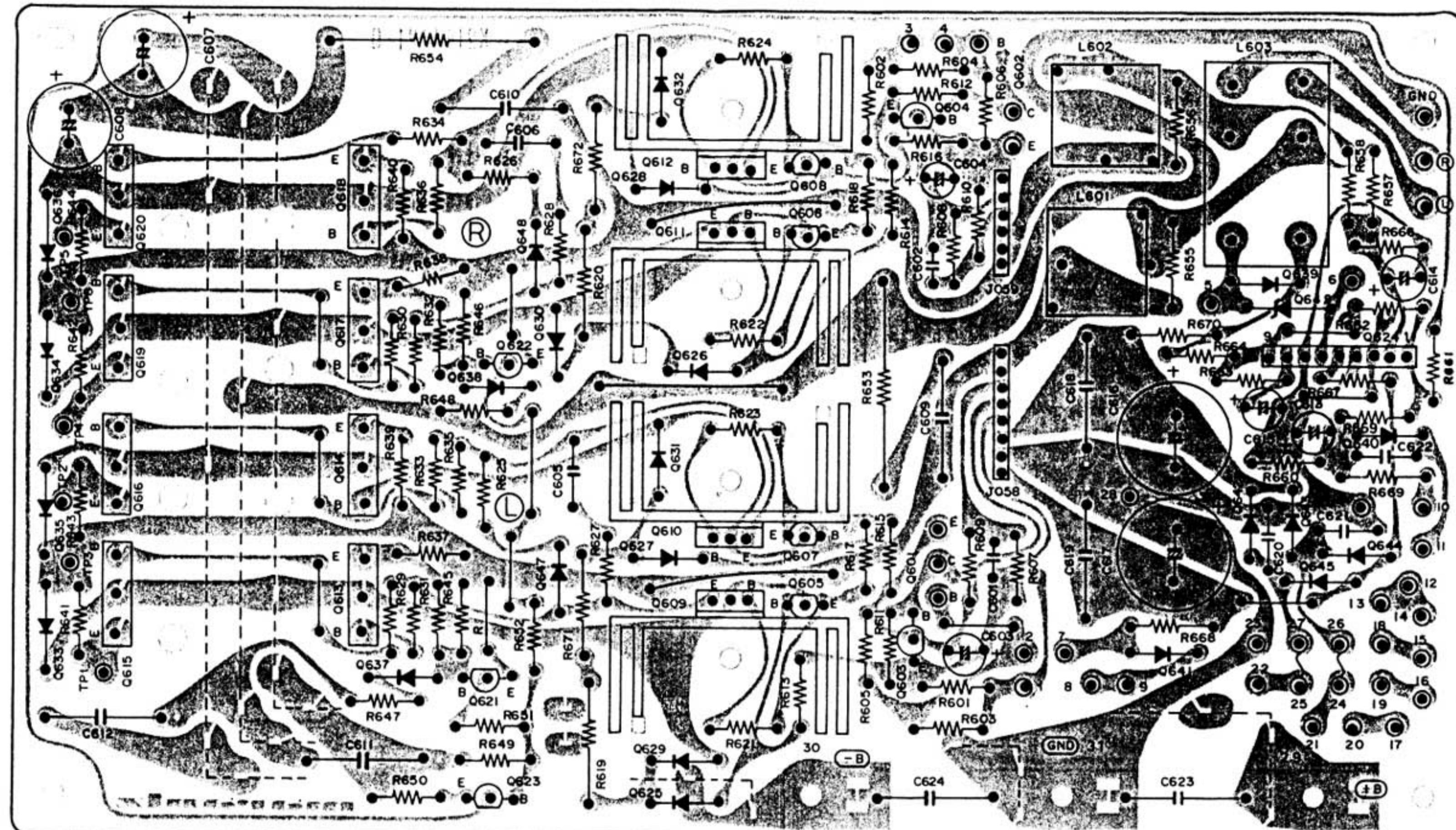
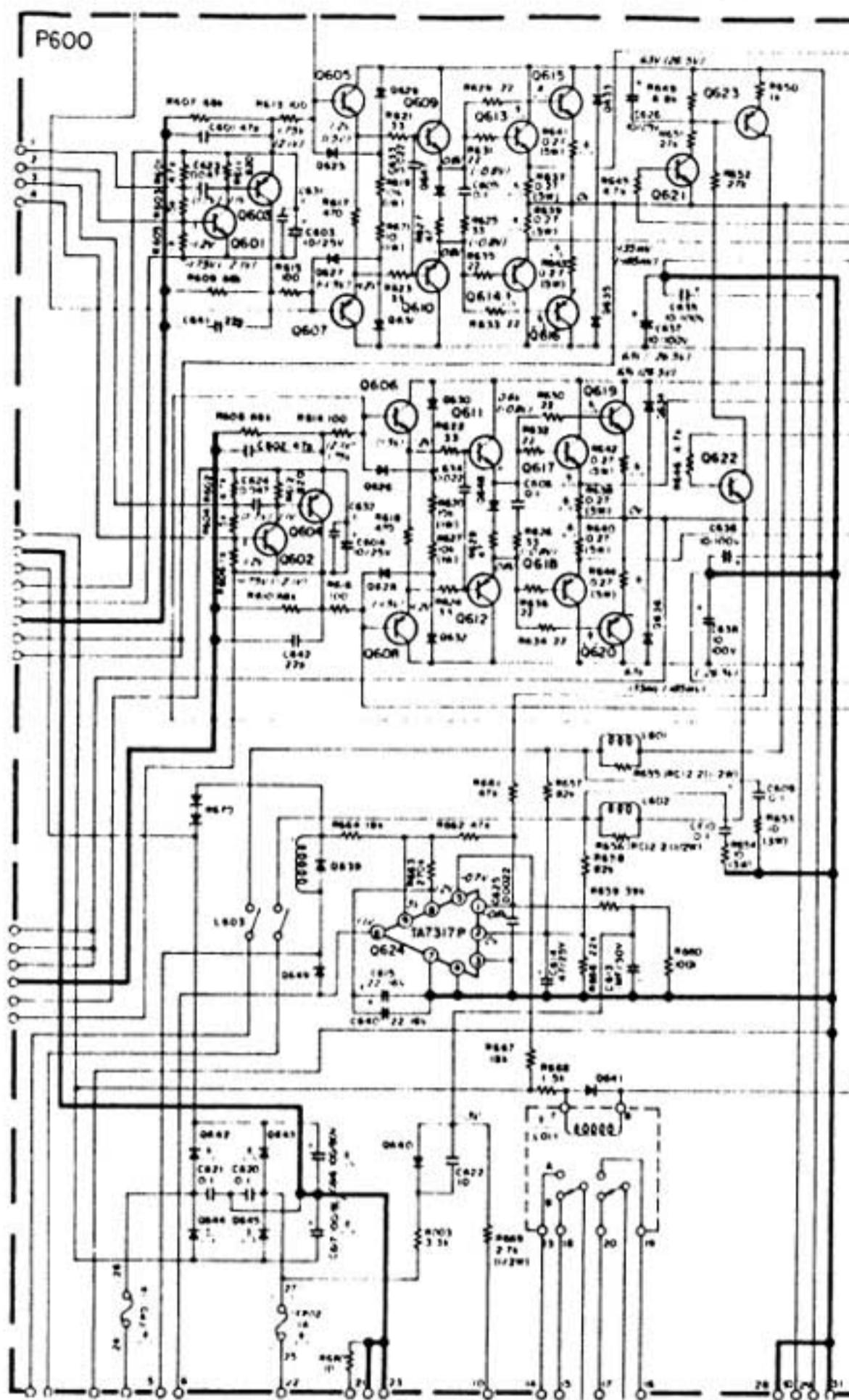
Filter Assembly (PH00) Schematic Diagram and Component Locations



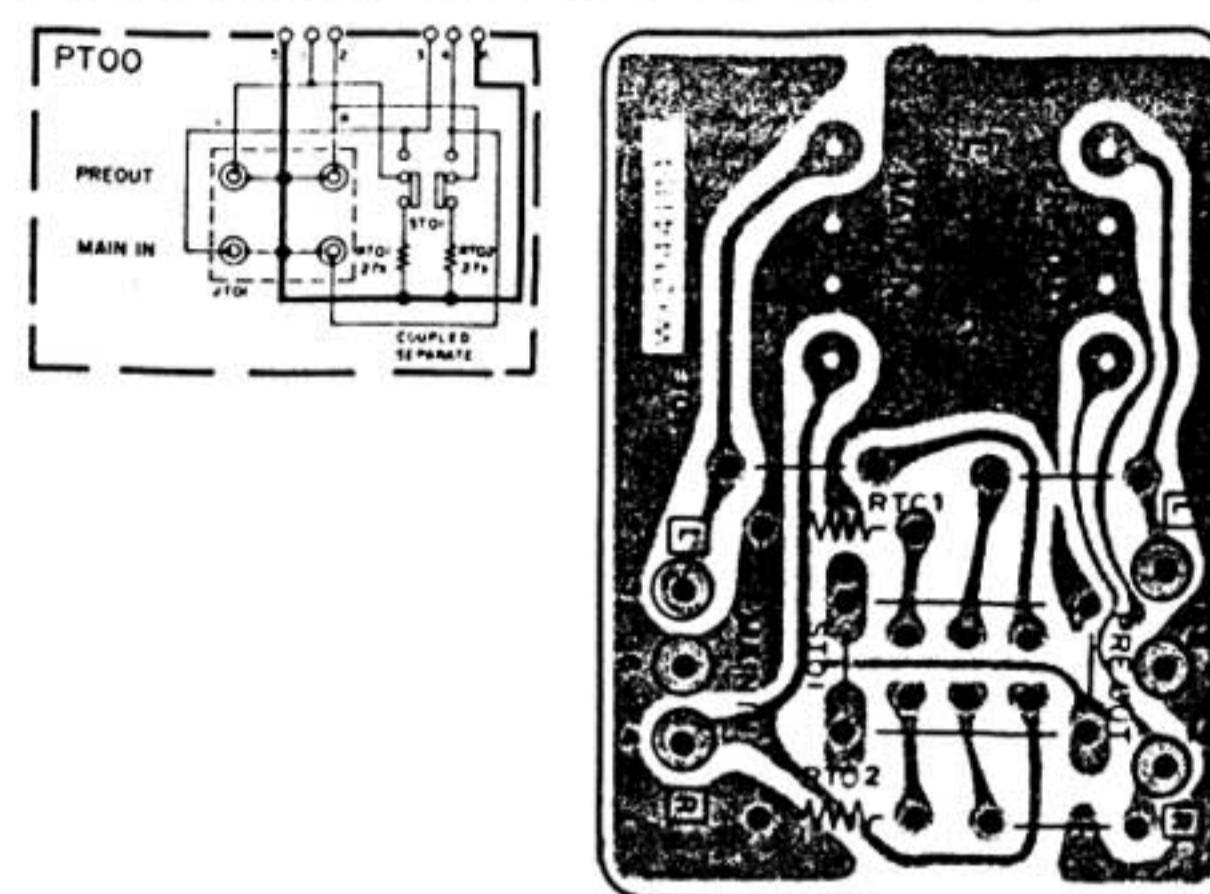
Speaker Switch Assembly (PW00) Schematic Diagram and Component Locations



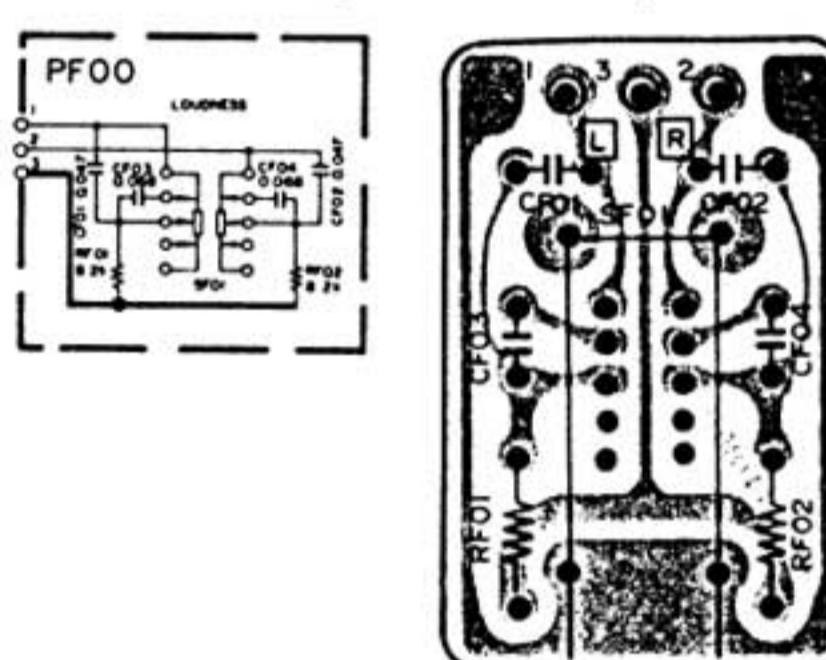
Output Amp. Assembly (P600) Schematic Diagram and Component Locations



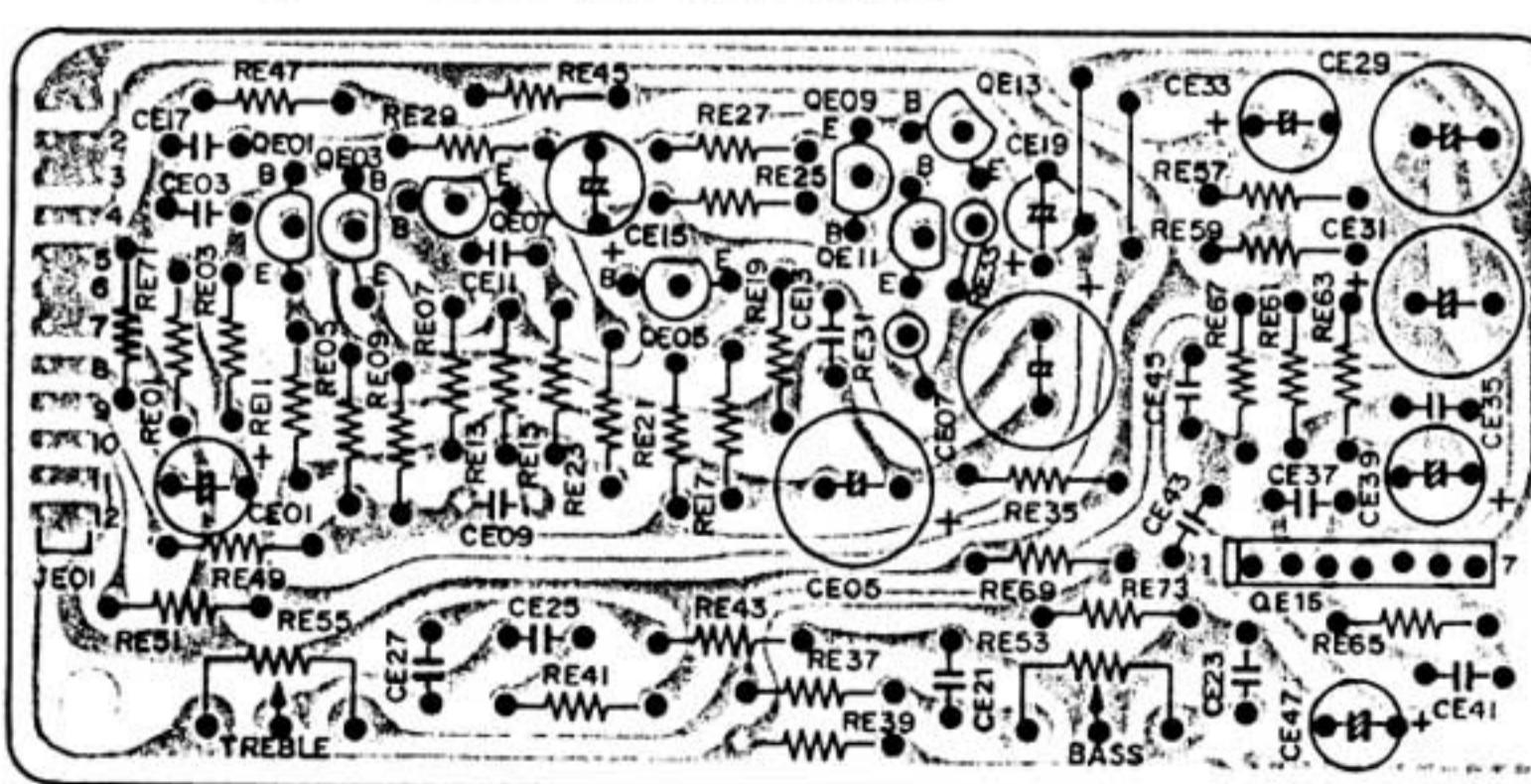
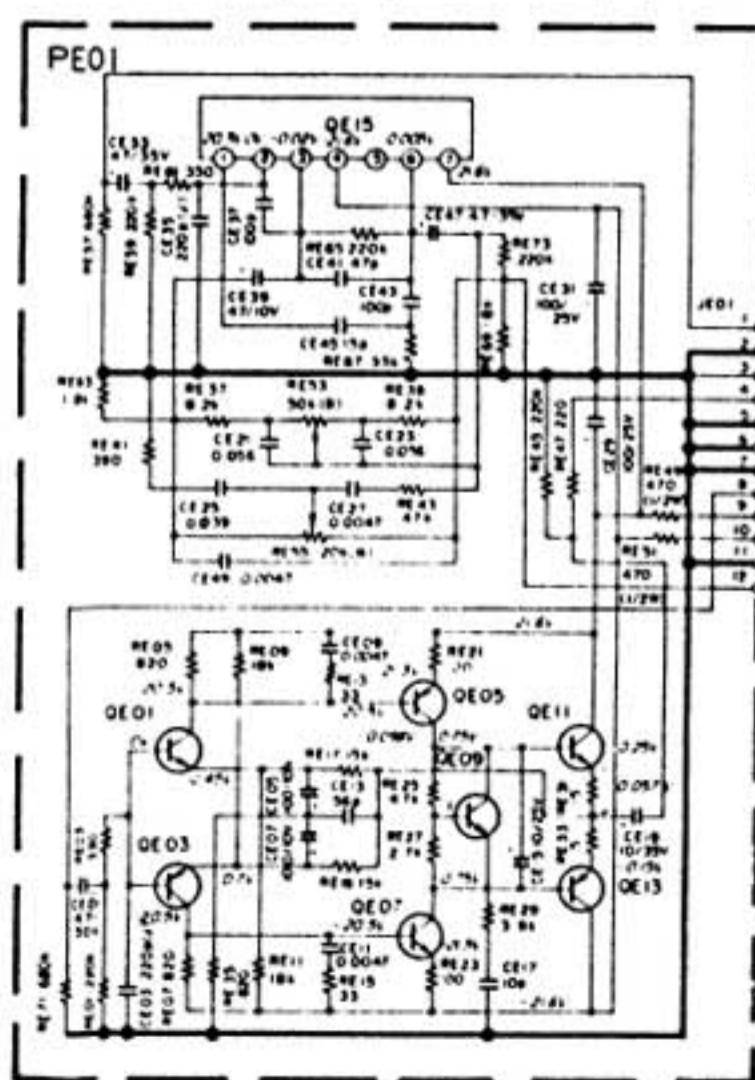
Pre Out Assembly (PT00) Schematic Diagram and Component Locations



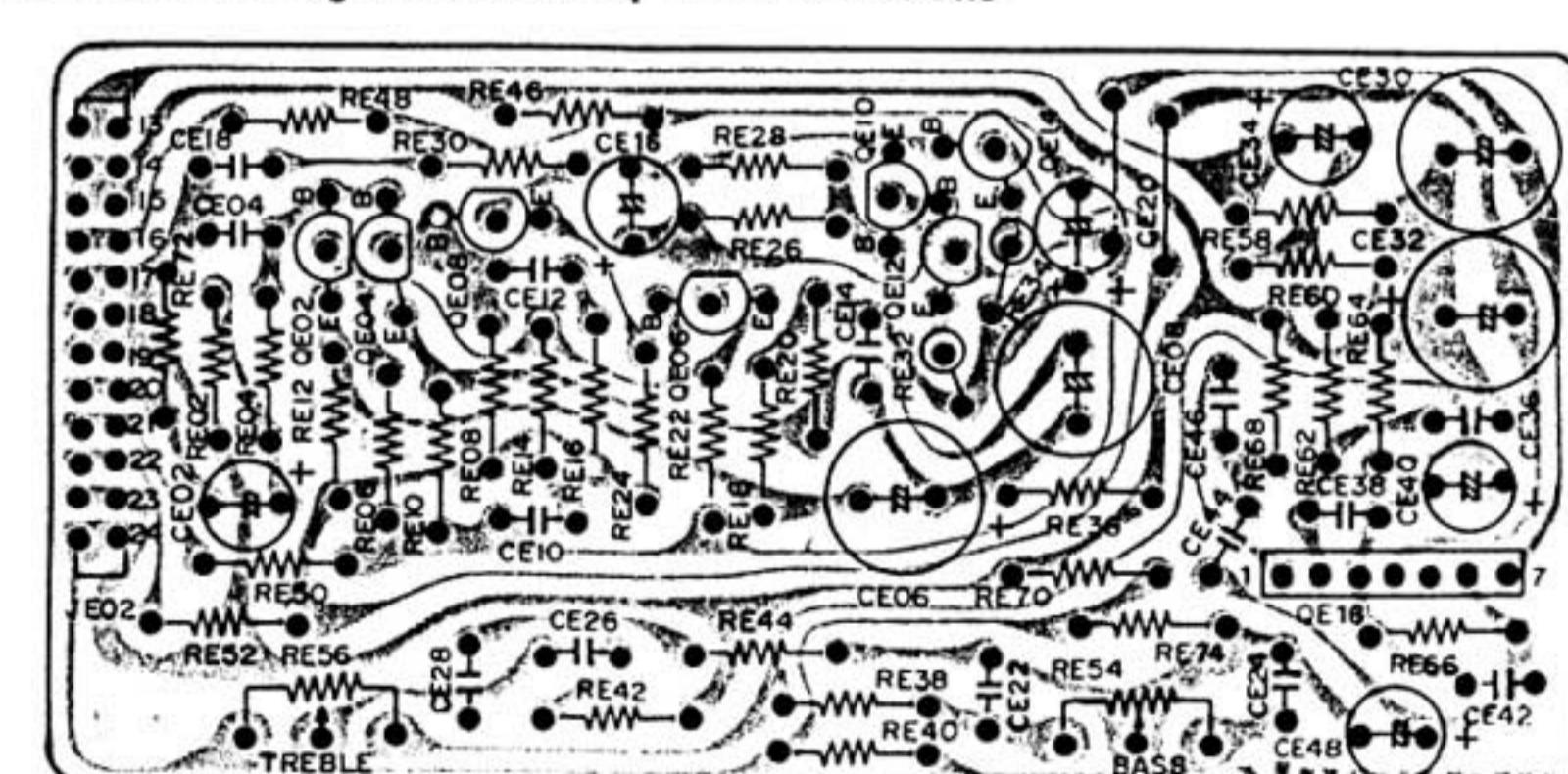
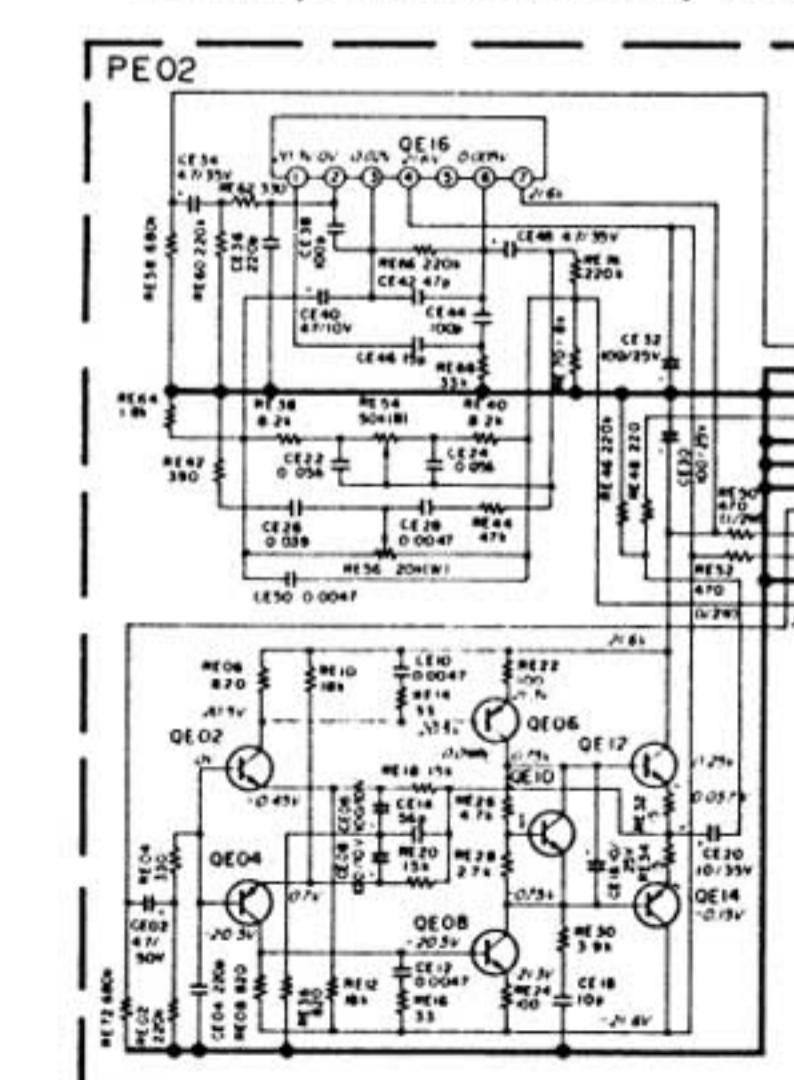
Loudness Assembly (PF00) Schematic Diagram and Component Locations



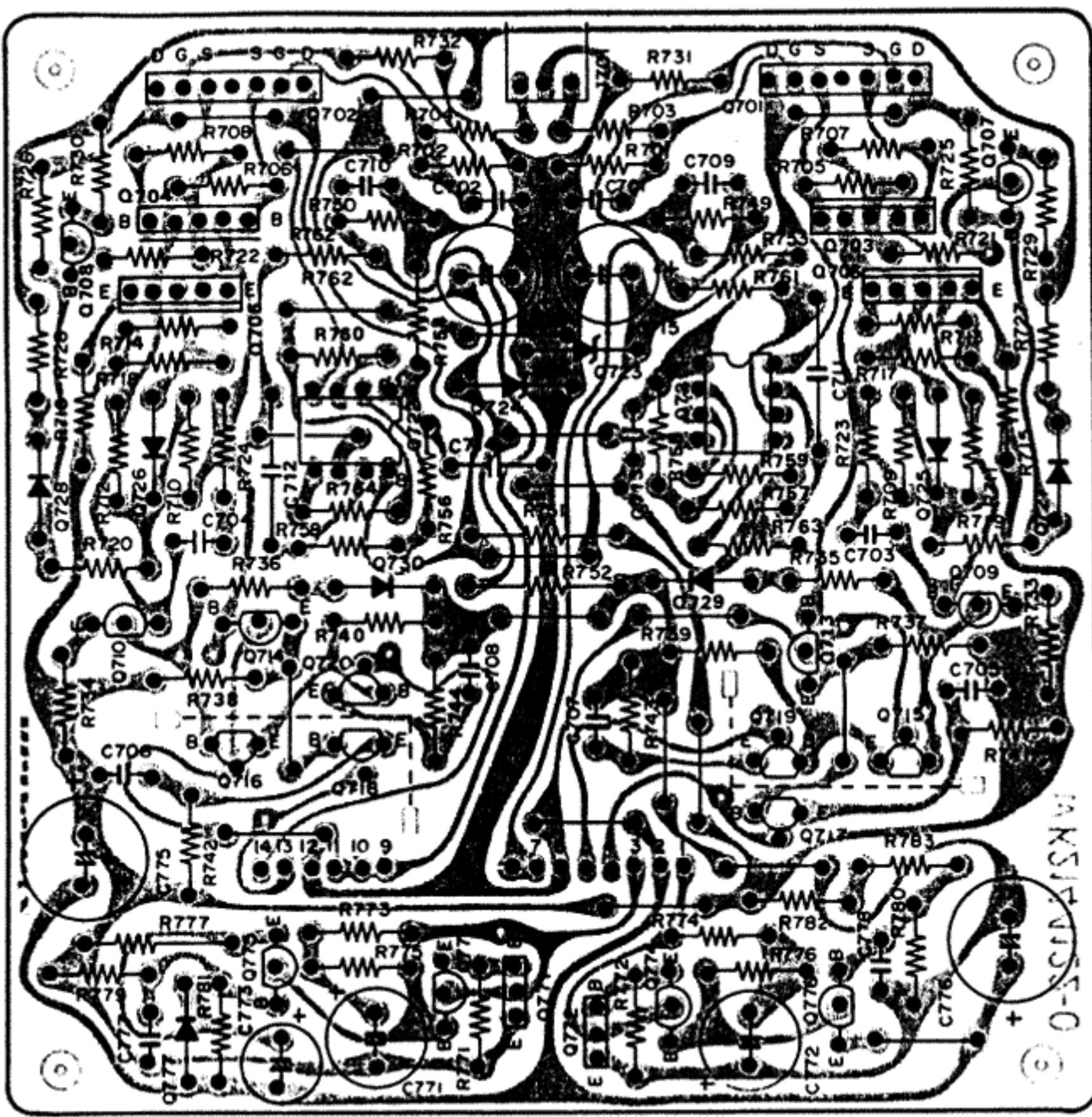
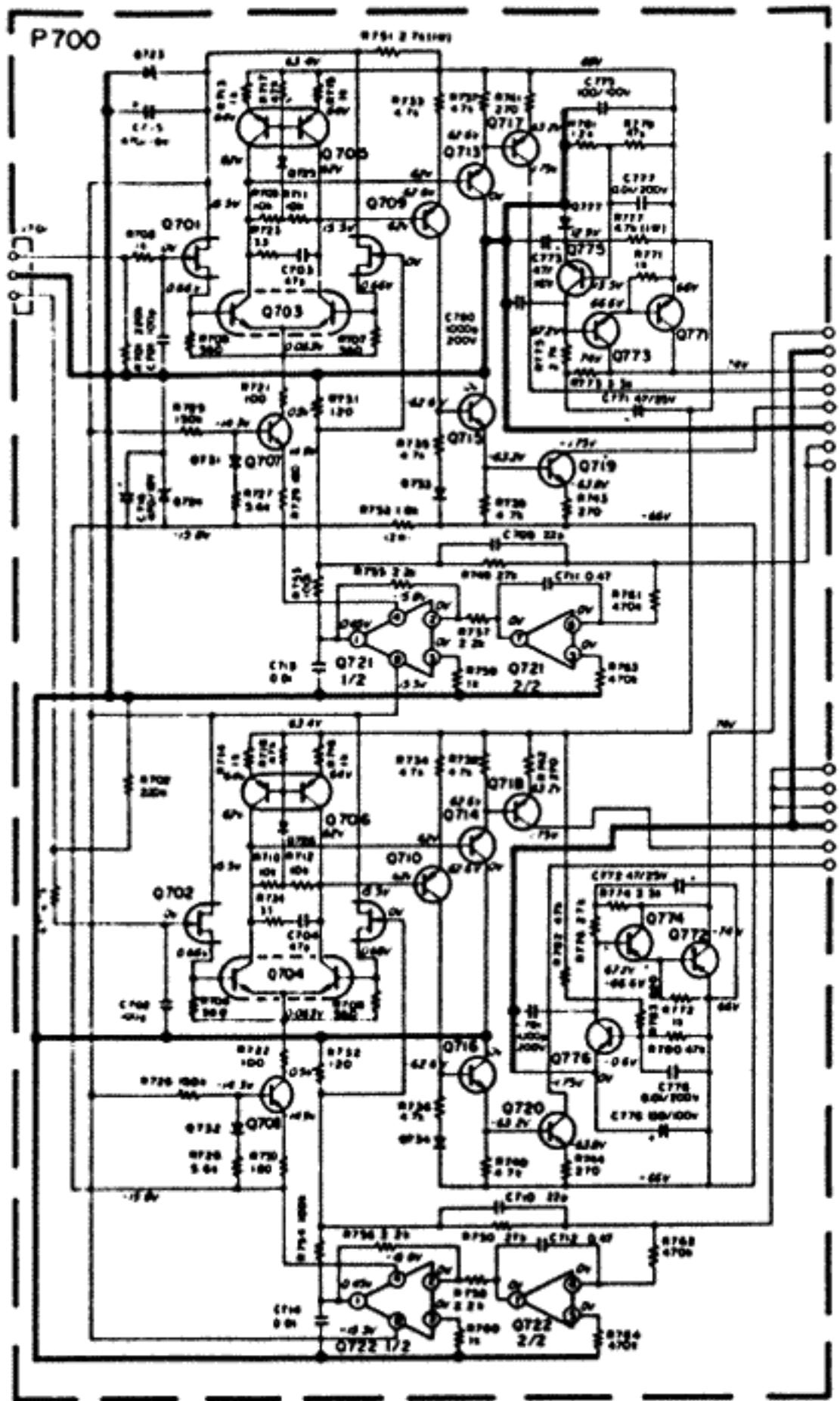
Tone Amp. (L ch) Assembly (PE01) Schematic Diagram and Component Locations



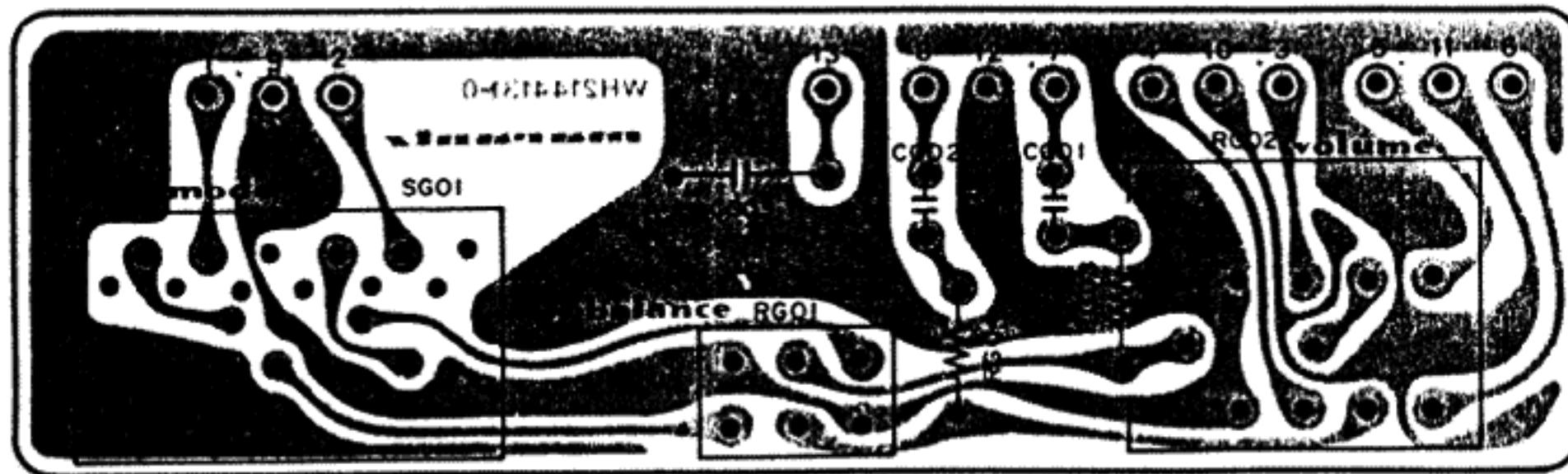
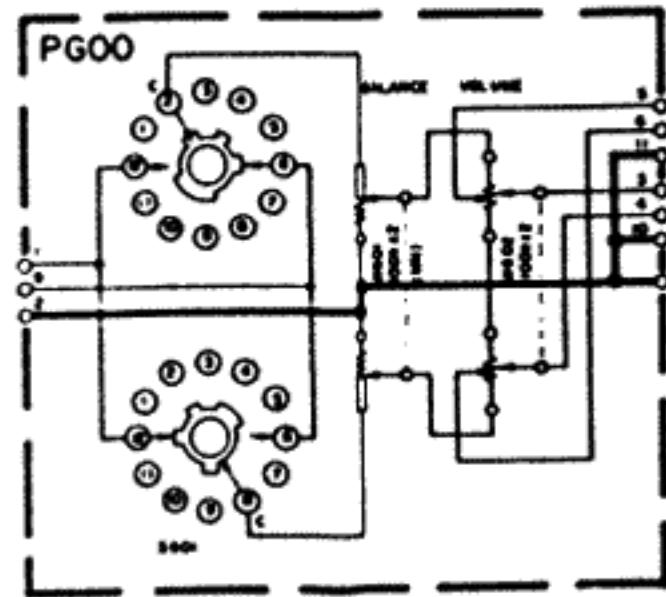
Tone Amp. (R ch) Assembly (PE02) Schematic Diagram and Component Locations



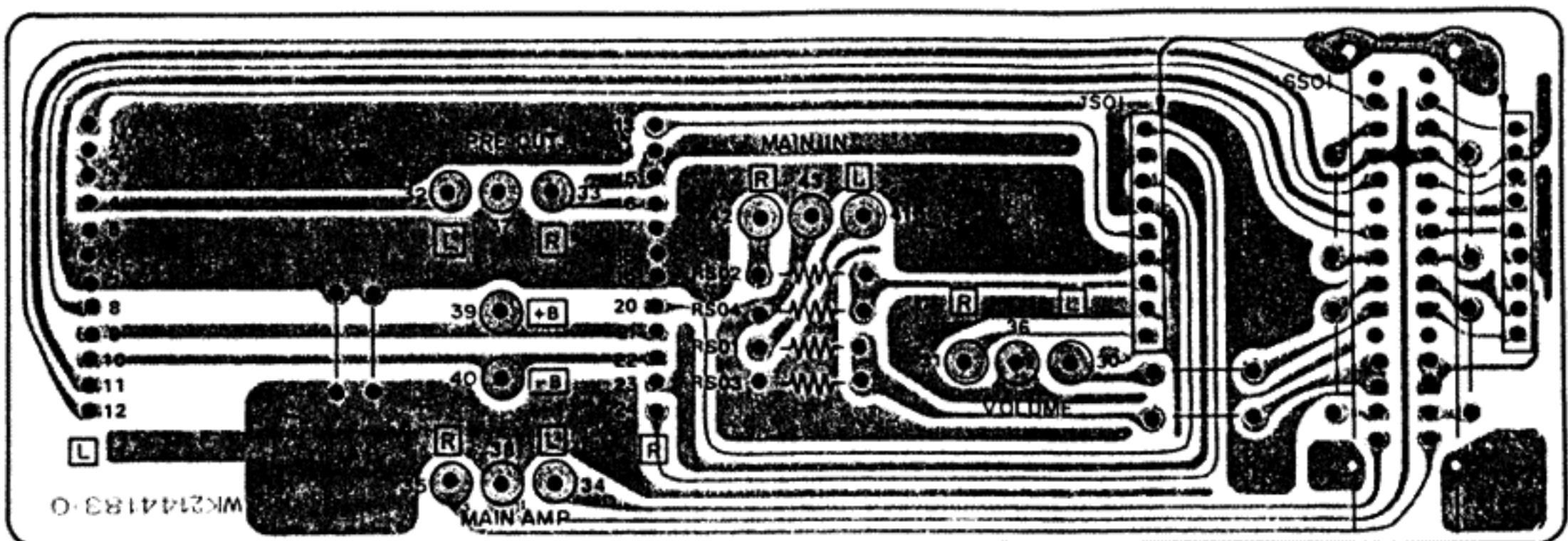
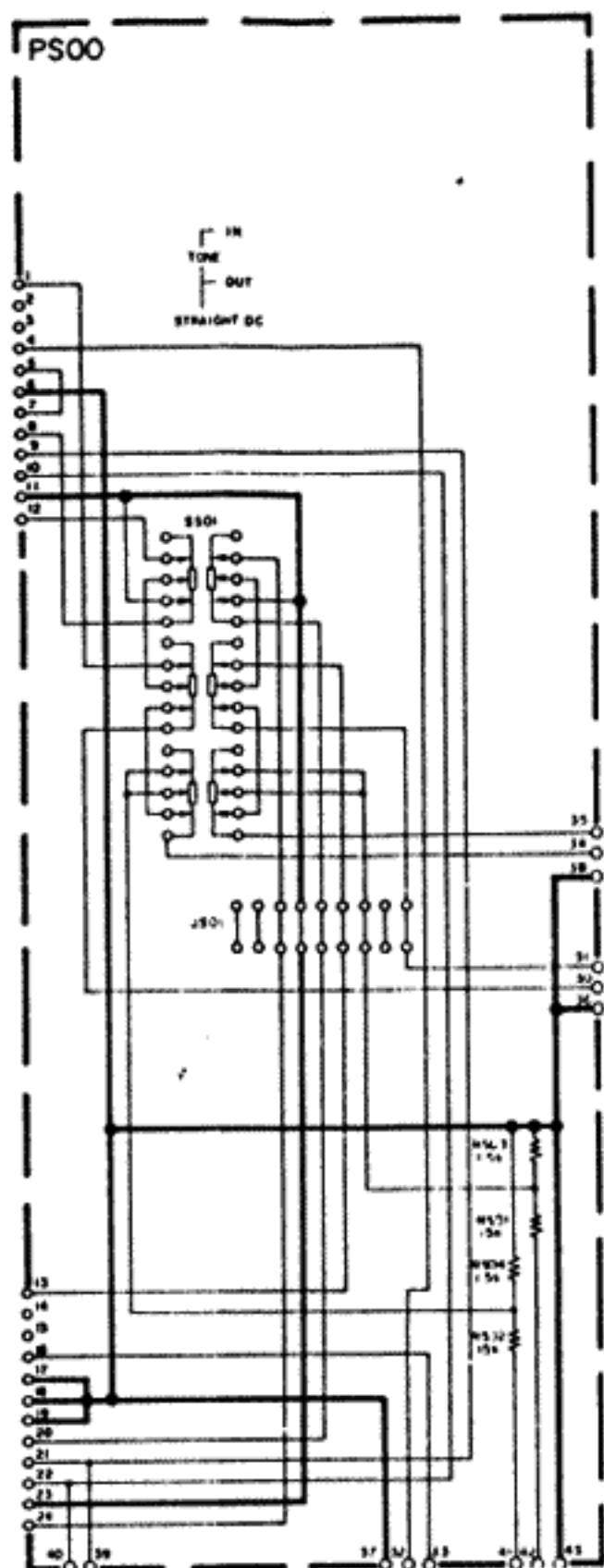
Voltage Amp. Assembly (P700) Schematic Diagram and Component Locations



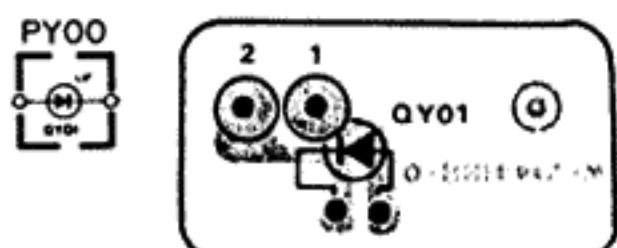
Balance Control Assembly (PG00) Schematic Diagram and Component Locations



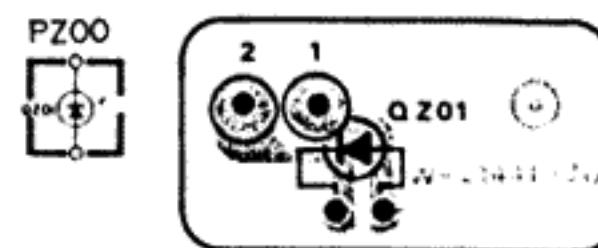
Straight DC Assembly (PS00) Schematic Diagram and Component Locations



L.E.D. Power Ind. Assembly (PY00) Schematic Diagram and Component Locations



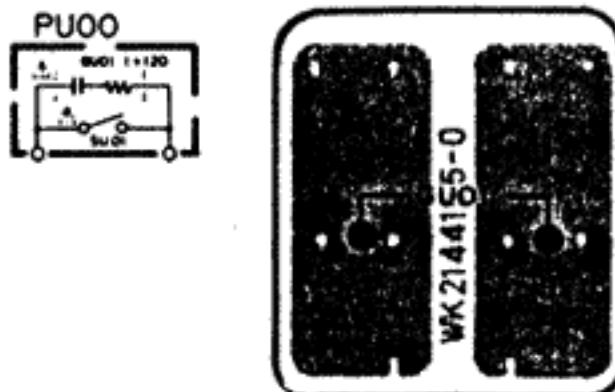
L.E.D. Class A Ind. Assembly (PZ00) Schematic Diagram and Component Locations



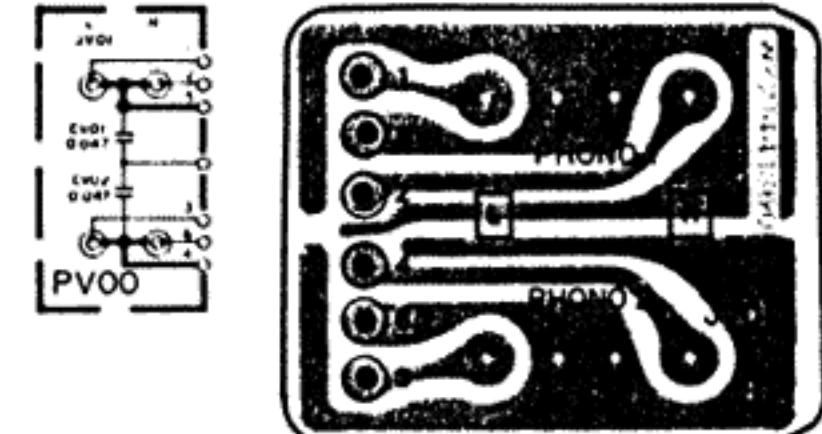
Head Phone Assembly (PX00) Schematic Diagram and Component Locations



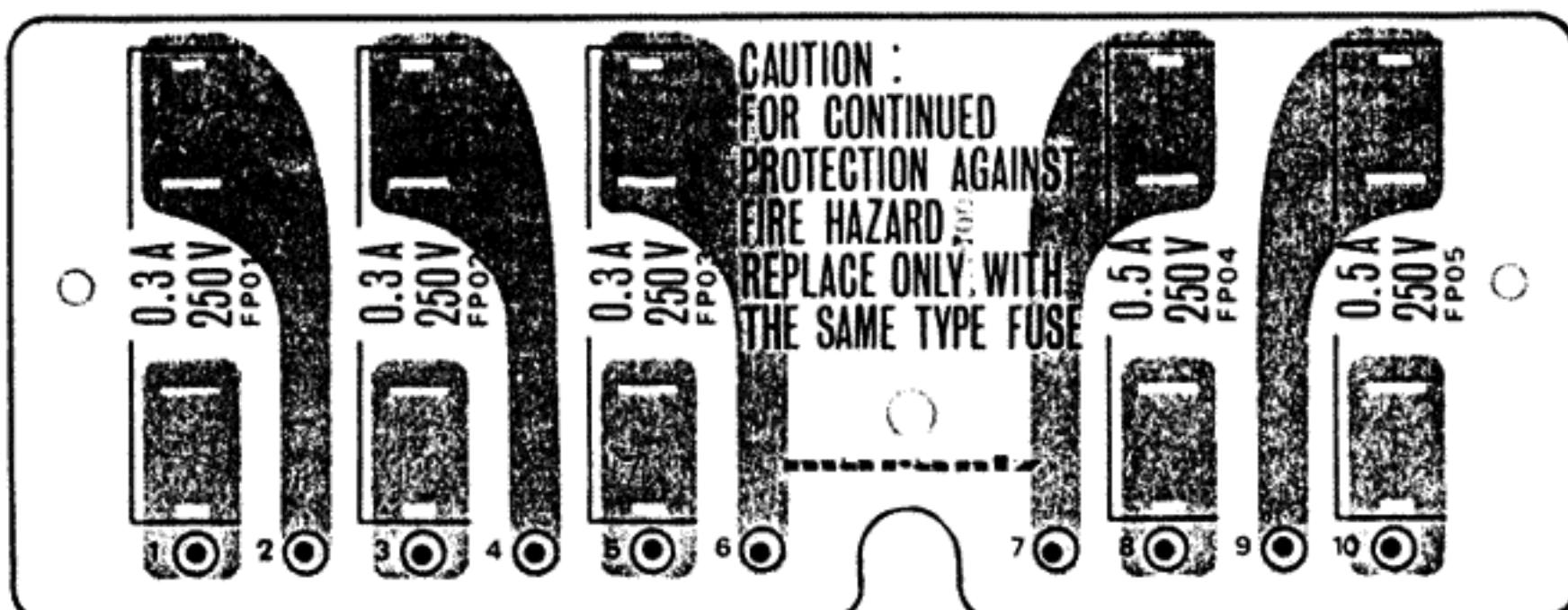
Power Switch Assembly (PU00) Schematic Diagram and Component Locations



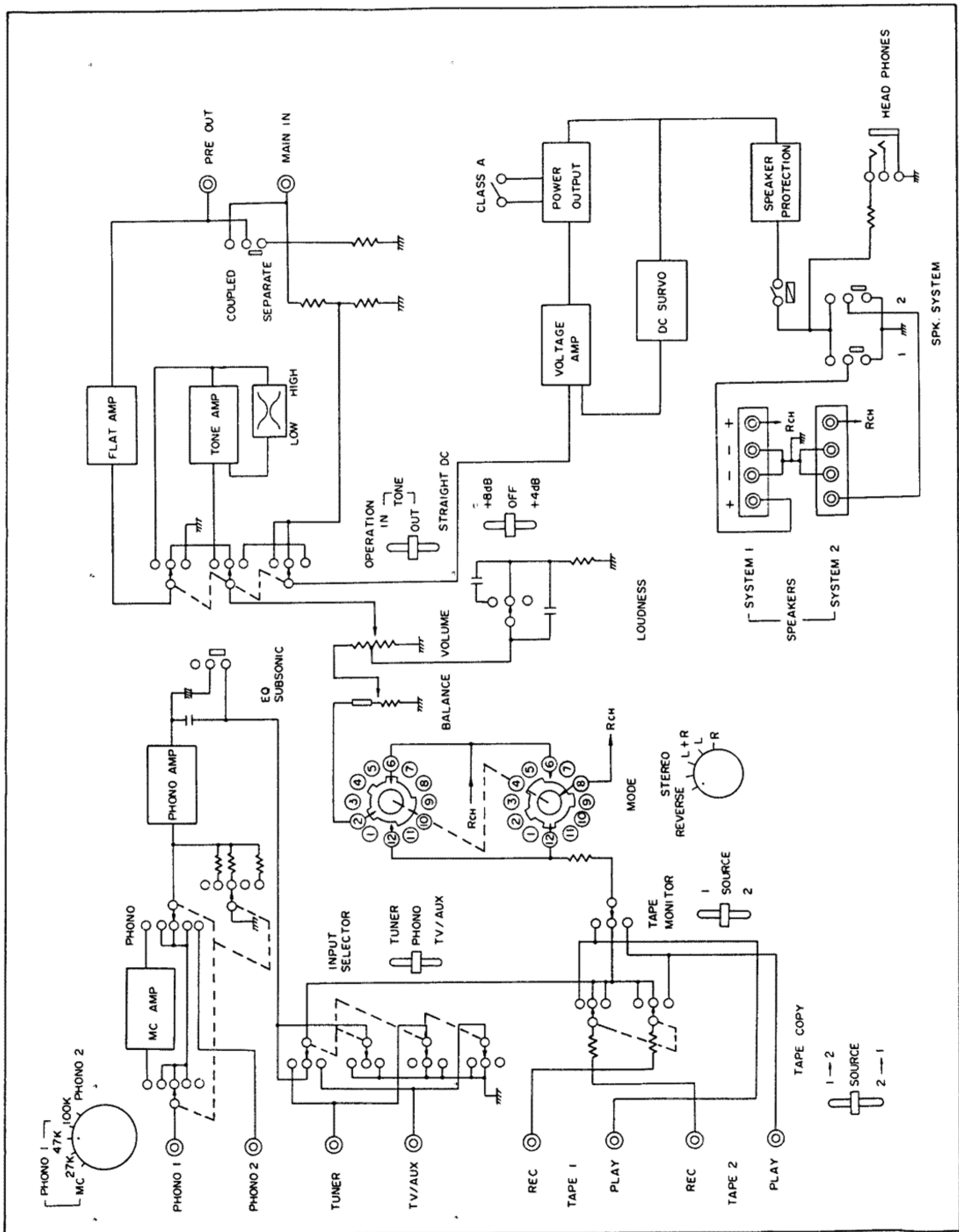
Phone Input Assembly (PV00) Schematic Diagram and Component Locations



Fuse Assembly (PP00) Component Locations

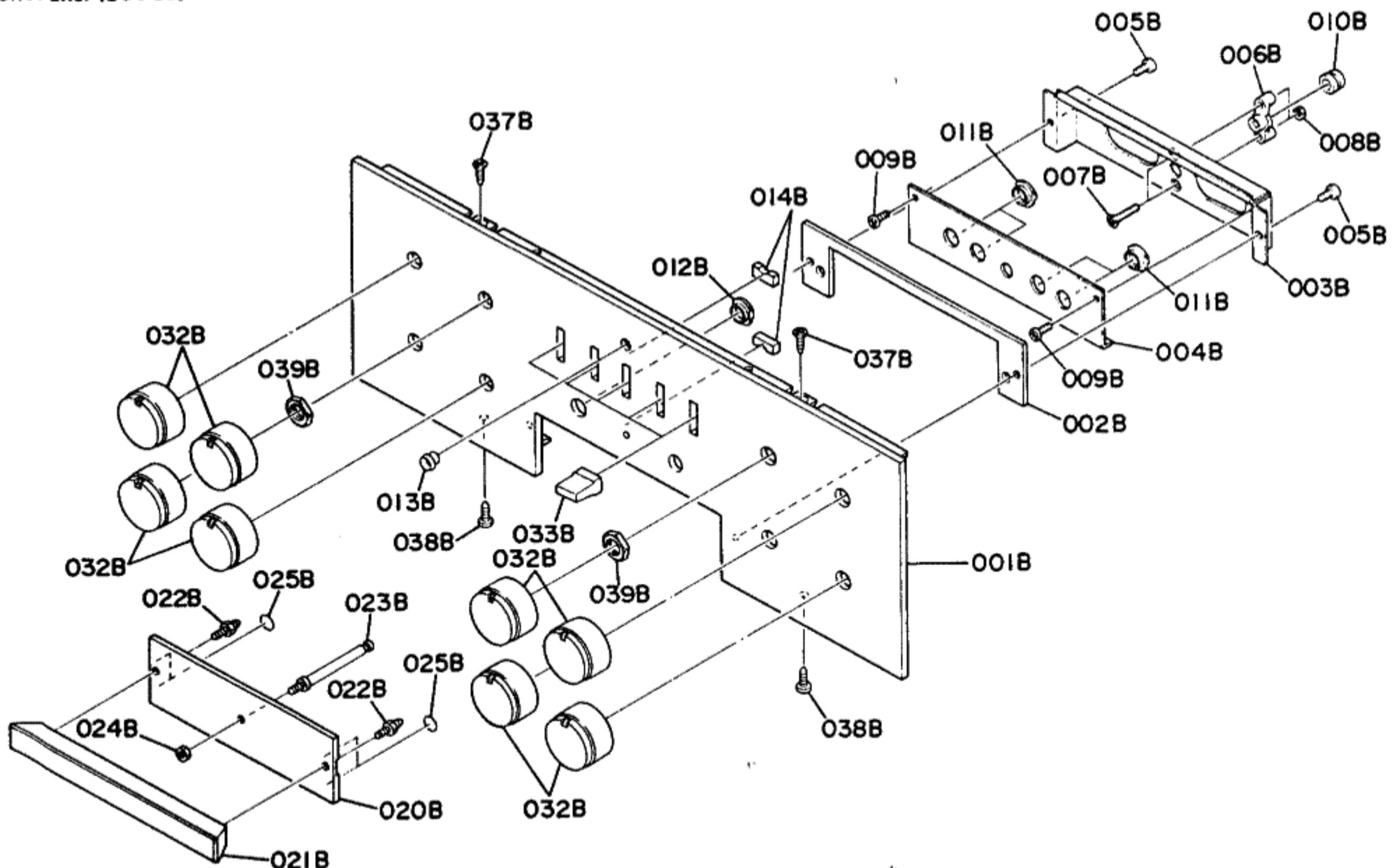


□ ブロックダイアグラム



□分解及び部品表

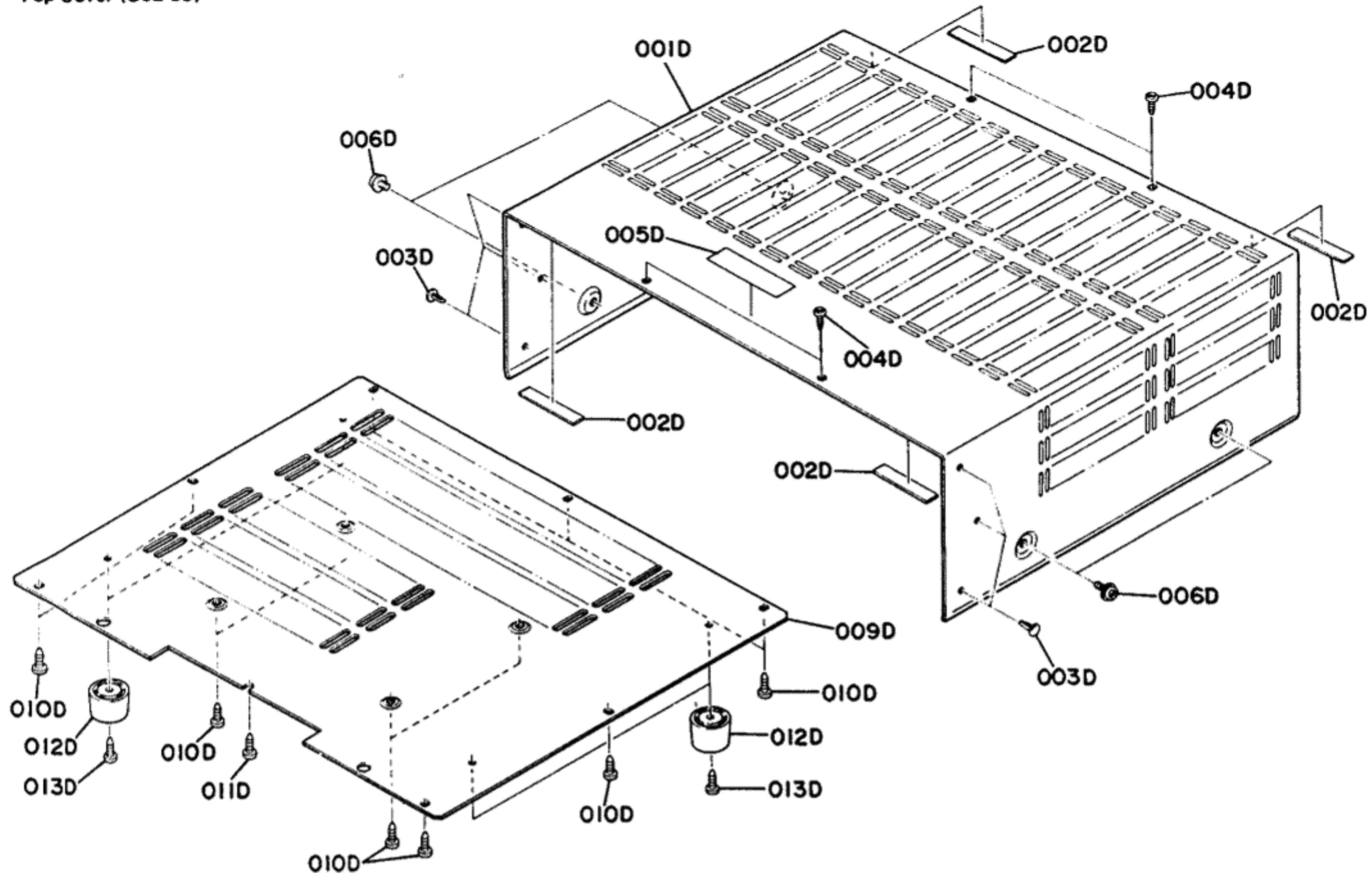
• Front Panel (C01-99)



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
A	1	2144063400	Front Panel Assembly
001B	1	2144063010	Escutcheon, Front Panel
002B	1	2461063030	Escutcheon, Pocket Frame
003B	1	2144160020	Bracket
004B	1	2144063020	Escutcheon, Pocket Panel
005B	2	51060305A9	P.H.M. Screw P3 x 5
006B	1	2461271010	Holder
007B	2	51042610A0	F.H.M. Screw F2.6 x 10
008B	2	53112603A0	Hexagon Nut
009B	2	51100204E0	B.H.M. Screw B2 x 4
010B	1	1143259010	Bushing, Pin Holder
011B	4	2978259010	Bushing, Push Switch
012B	1	2978259010	Bushing, Power Switch
013B	1	2462259010	Bushing, LED

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
B	1	2144063410	Pocket Cover Assembly
020B	1	2461063050	Escutcheon, Pocket Cover
021B	1	2461253110	Handle
022B	2	2461254010	Pin
023B	1	2461254020	Pin
024B	1	53110303E9	Hexagon Nut
025B	4	2461107020	Sheet
014B	2	2112053030	Cover
032B	8	2462154260	Knob
033B	5	2144154110	Knob, Lever Switch
037B	2	51340306B0	F.H. Tapped Screw
038B	2	51280308U0	B.H. Tapped Screw
039B	2	53118129G0	Hexagon Nut

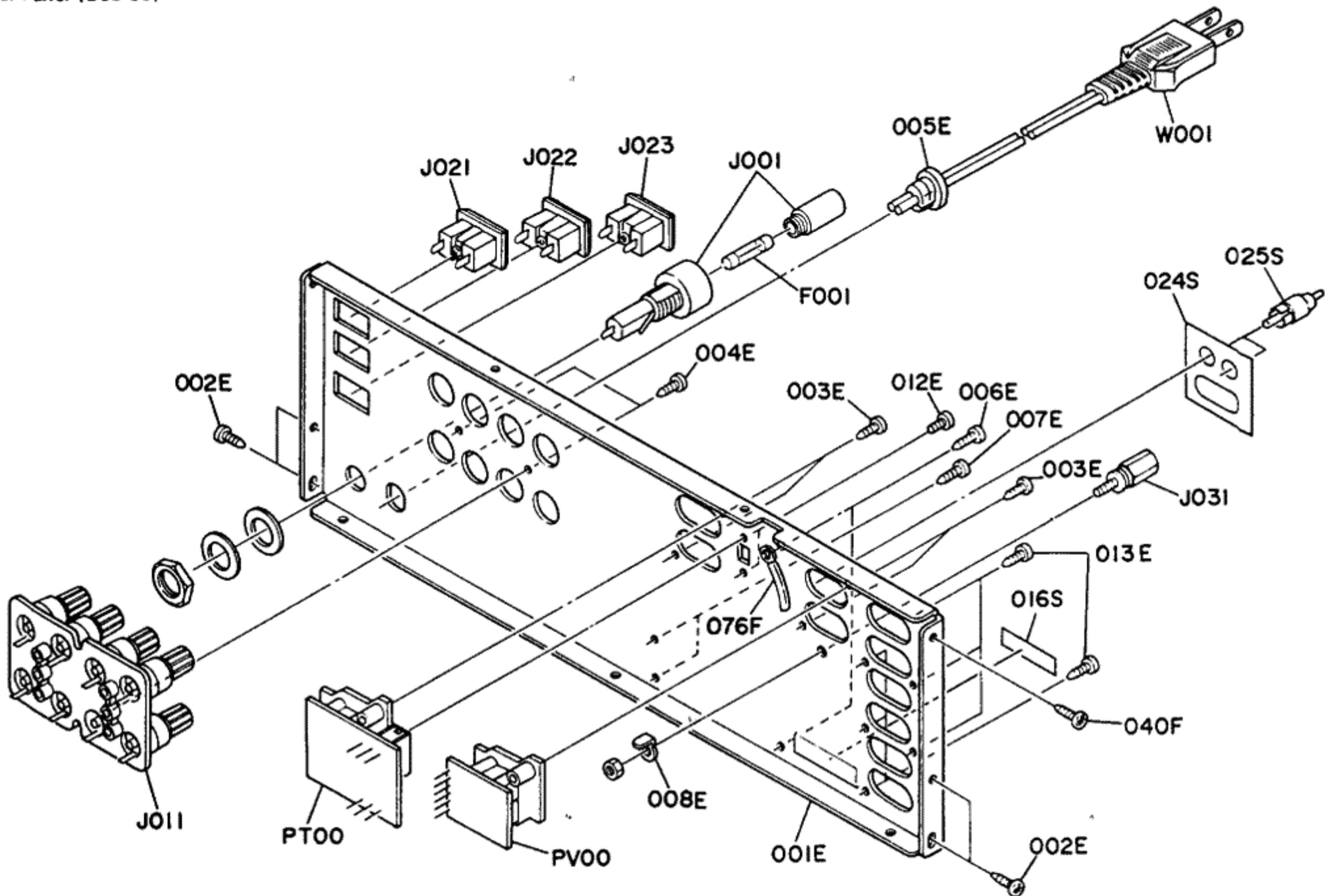
• Top Cover (C02-99)



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001D	1	2461257010	Lid, Top Cover
002D	4	2965118010	Spacer
003D	6	2991259010	Bushing
004D	4	5126030820	Tapped Screw 3 x 8
005D	1	2144861010	Label
006D	4	51480406Z9	F. Washer Screw 4 x 6

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
009D	1	2144257010	Lid, Bottom Cover
010D	11	51280410U0	B.H. Tapped Screw B4 x 10
011D	1	51280406U0	B.H. Tapped Screw B4 x 6
012D	4	2759057010	Leg
013D	4	51570410SO	P. Taptite Screw P4 x 10

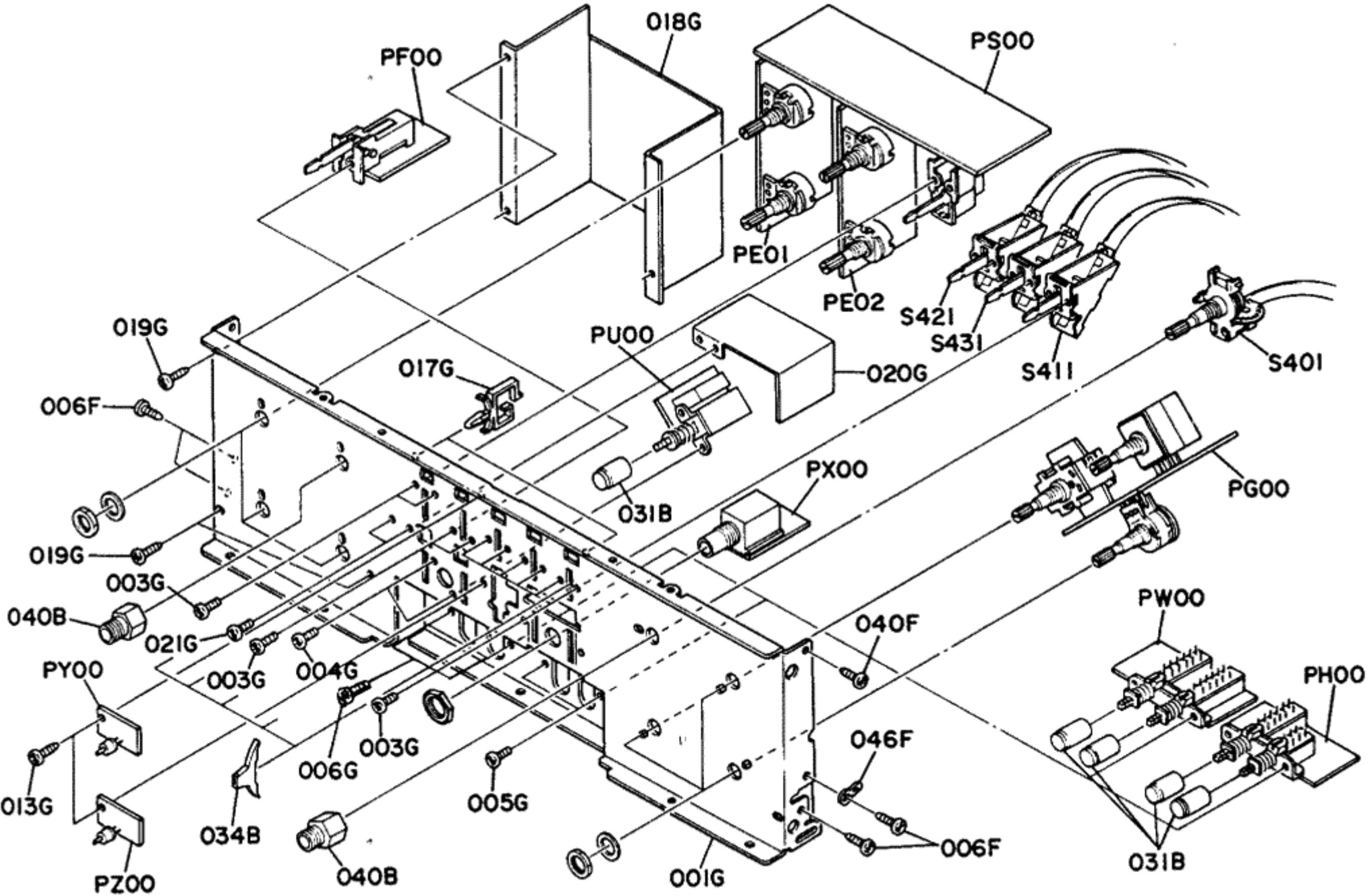
• Rear Panel (C03-99)



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001E	1	2144160210	Bracket, Rear Panel
002E	4	51100308S9	B.H.M. Screw B3 x 8
003E	4	51280308U0	B.H. Tapped Screw B3 x 8
004E	2	51280308U0	B.H. Tapped Screw B3 x 8
005E	1	1455259090	Bushing
006E	2	51280308U0	B.H. Tapped Screw B3 x 8
007E	2	51280308U0	B.H. Tapped Screw B3 x 8
008E	1	62040029W0	Lug
012E	2	51102605S0	B.H.M. Screw B2.6 x 5
013E	6	51280308U0	B.H. Tapped Screw B3 x 8
040F	1	51280308B0	B.H. Tapped Screw B3 x 8
076F	1	4220005040	Clamper

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
016S	1	2112265010	Indicator
024S	1	2144863010	Hang Tag
025S	2	YQ01000020	Short Plug
± F001	1	FS10800010	Fuse 8A 250V
± J001	1	YJ08000300	Jack, Fuse Holder
J011	1	YT01080030	Terminal, Speaker System
± J021	1	YJ04000560	Jack, AC Outlet
± J022	1	YJ04000560	Jack, AC Outlet
± J023	1	YJ04000560	Jack, AC Outlet
J031	1	YT01010050	Terminal, Ground
J032	1	YL01020080	Terminal (2P)
± W001	1	YC02400182	A.C. Power Cord

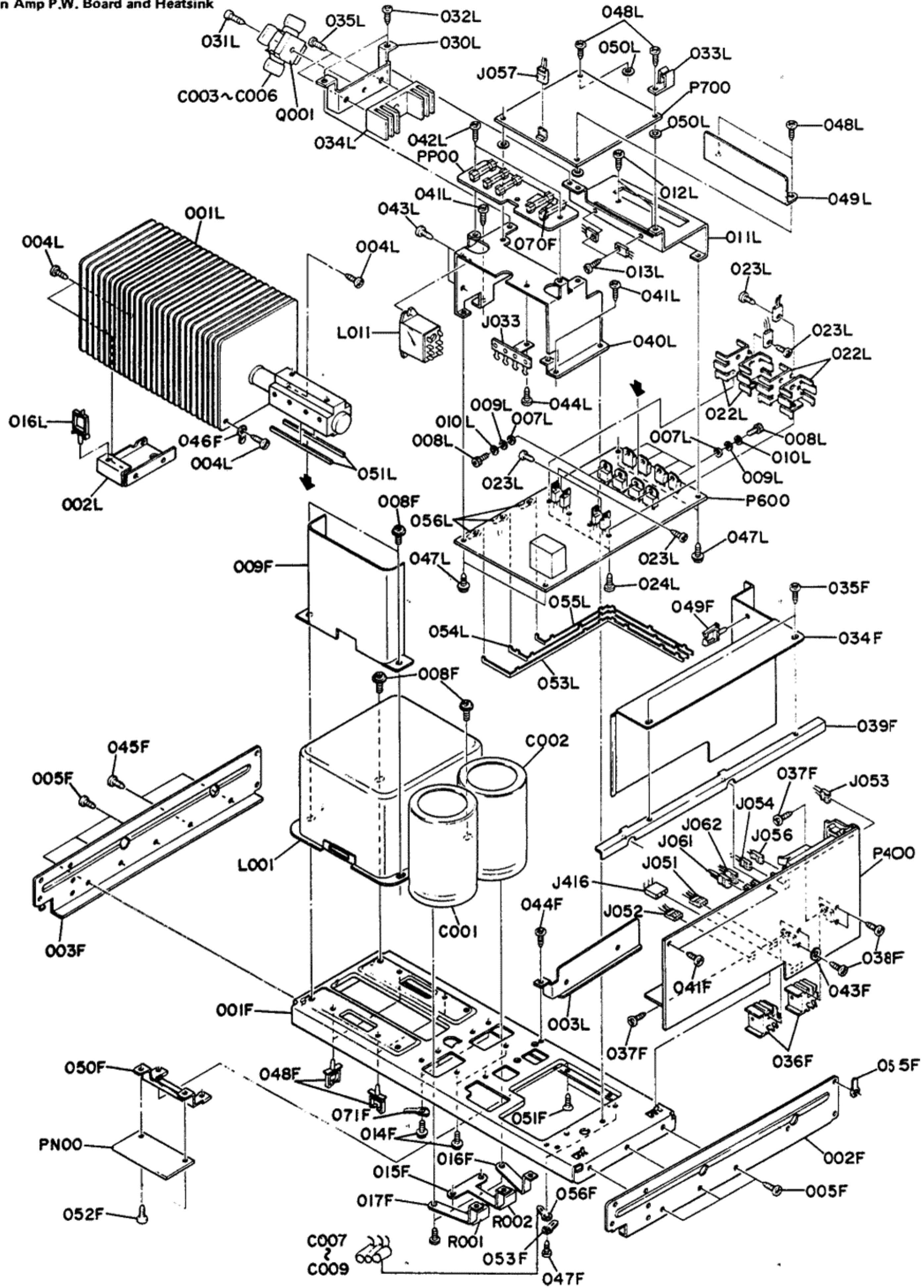
- **Front Chassis and General Parts**



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION	
031B	5	2462154220	Knob, Push Switch	
034B	5	2144259010	Bushing, Lever Switch	
040B	2	2462101040	Support	
006F	4	51280308B0	B.H. Tapped Screw	B3 x 8
040F	1	51280308B0	B.H. Tapped Screw	B3 x 8
046F	1	62030039W0	Lug	
001G	1	2144160010	Bracket, Front Chassis	
003G	10	51100306A9	B.H.M. Screw	B3 x 6
004G	2	51100306A9	B.H.M. Screw	B3 x 6
005G	2	51100306A9	B.H.M. Screw	B3 x 6
013G	2	51280308B0	B.H. Tapped Screw	B3 x 8
017G	2	2129005010	Clamper	
018G	1	2144109050	Shield	
019G	3	51280308B0	B.H. Tapped Screw	B3 x 8
020G	1	2144109020	Shield	
021G	2	51100306A9	B.H.M. Screw	B3 x 6
006G	2	51100306A9	B.H.M. Screw	B3 x 6

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
S401	1	SR00050040	Rotary Switch, Phone Selector
S411	1	SC00030010	Switch, Input Selector
S421	1	SC00030010	Switch, Tape Copy
S431	1	SC00030010	Switch, Tape Monitor

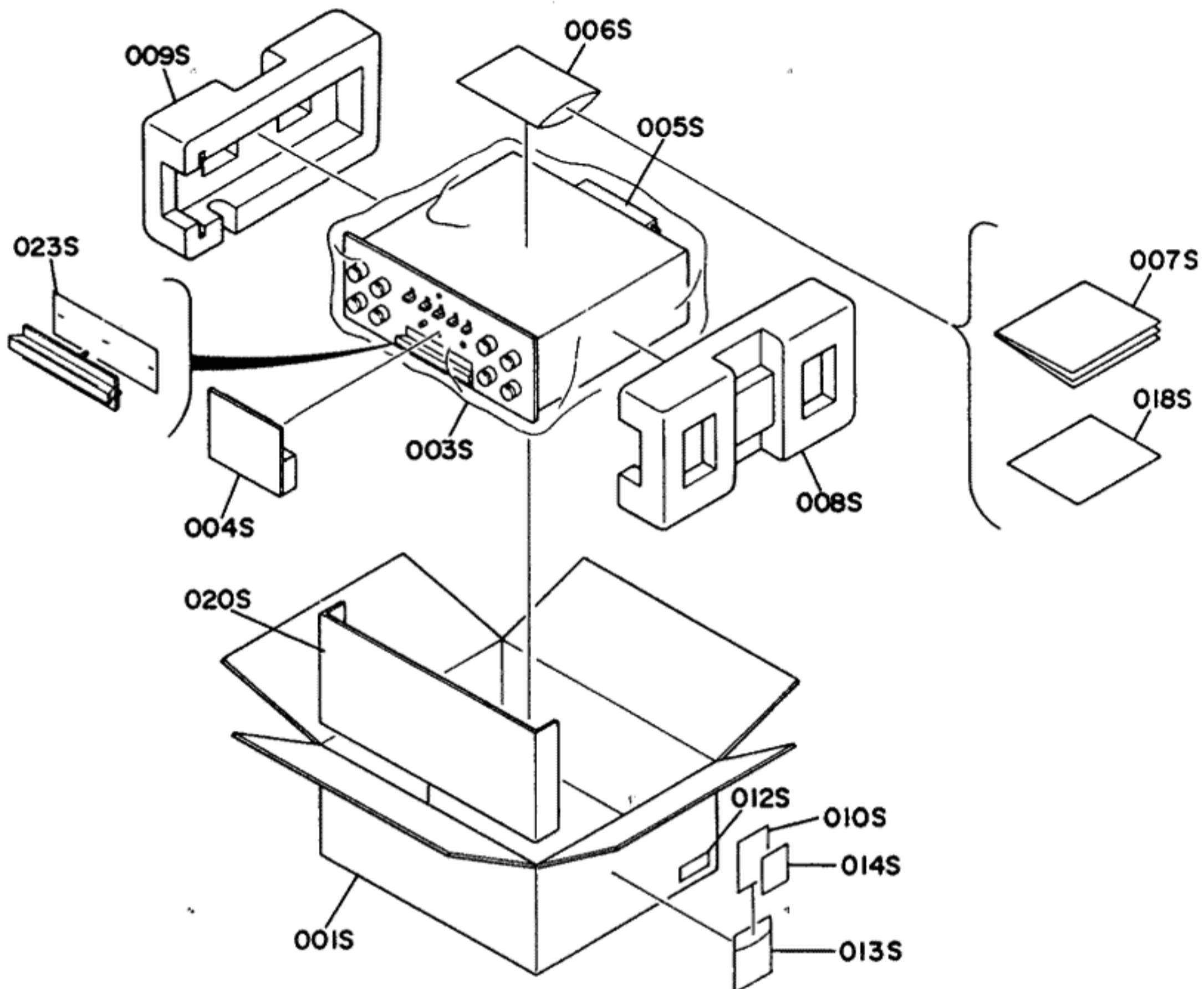
• Main Amp P.W. Board and Heatsink



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001F	1	2144105010	Chassis, Center
002F	1	2979105020	Side Chassis (R)
003F	1	2979105030	Side Chassis (L)
005F	6	5128040880	B.H. Tapped Screw B4 x 8
008F	4	51490410S9	L. Washer Screw 4 x 10
009F	1	2144109030	Shield
014F	6	51480406S9	F. Washer Screw 4 x 6
015F	1	2144123010	Contactor
016F	1	2144123020	Contactor
017F	1	2144123030	Contactor
019F	3	51100308E9	B.H.M. Screw B3 x 8
034F	1	2144109010	Shield
035F	2	51280308U0	B.H. Tapped Screw B3 x 8
036F	2	2144267030	Heatsink
037F	2	51280308B0	B.H. Tapped Screw B3 x 8
038F	4	51300308B0	P.H. Tapped Screw P3 x 8
039F	1	2144160080	Bracket
041F	2	51280308B0	B.H. Tapped Screw B3 x 8
044F	1	51280308B0	B.H. Tapped Screw B3 x 8
045F	2	51280308B0	B.H. Tapped Screw B3 x 8
046F	1	62030039W0	Lug
047F	1	51280308B0	B.H. Tapped Screw B3 x 8
048F	5	2129005010	Clamper
049F	1	2886005060	Clamper
050F	1	2144160090	Bracket
051F	2	51500306B0	F.H. Tapped Screw F3 x 6
052F	2	51280306B0	B.H. Tapped Screw B3 x 6
055F	1	62030049W0	Lug
056F	1	62030049W0	Lug
001L	1	2144267010	Heatsink
002L	1	2144160040	Bracket
003L	1	2144160050	Bracket
004L	4	51280306B0	B.H. Tapped Screw B3 x 6
008L	8	52730310S9	H.S. Head Bolt 3 x 10
009L	8	54020301E0	Flat Washer, P.
010L	8	54040302N0	Spring Washer
011L	1	2144160070	Bracket
012L	2	51280306U0	B.H. Tapped Screw B3 x 6
013L	2	51280308U0	B.H. Tapped Screw B3 x 8
016L	1	2886005020	Clamper
022L	4	2212267020	Heatsink
023L	8	51280308B0	B.H. Tapped Screw B3 x 8
024L	4	51280308B0	B.H. Tapped Screw B3 x 8
030L	1	2144267020	Heatsink
031L	1	51280314B0	B.H. Tapped Screw B3 x 14
032L	2	51280308U0	B.H. Tapped Screw B3 x 8
033L	1	2887005110	Clamper
040L	1	2144160060	Bracket
041L	3	51280308U0	B.H. Tapped Screw B3 x 8
042L	2	51280308U0	B.H. Tapped SCrew B3 x 8
043L	2	51280308U0	B.H. Tapped Screw B3 x 8
044L	1	51280306U0	B.H. Tapped Screw B3 x 6
047L	4	51260308B0	Screw 3 x 8
048L	4	51280308U0	B.H. Tapped Screw B3 x 8
050L	4	59030808P0	Washer
051L	2	2144118010	Spacer
053L	1	2144123040	Contactor
054L	1	2144123050	Contactor
055L	1	2144123060	Contactor
056L	3	62031240W0	Lug

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
▲ C001	1	EB22907510	Elect Cap. 22000 μ F 75V
▲ C002	1	EB22907510	Elect Cap. 22000 μ F 75V
C003	1	DF17104520	Film Cap. 0.1 μ F \pm 20% 200V
C004	1	DF17104520	Film Cap. 0.1 μ F \pm 20% 200V
C005	1	DF17104520	Film Cap. 0.1 μ F \pm 20% 200V
C006	1	DF17104520	Film Cap. 0.1 μ F \pm 20% 200V
C007	1	DK18473320	Ceramic Cap. 0.47 μ F 50V
C008	1	DK18473320	Ceramic Cap. 0.47 μ F 50V
C009	1	DK18473320	Ceramic Cap. 0.47 μ F 50V
J033	1	YL01040160	Terminal, (4P)
J051	1	YJ06002200	Jack, (3P)
J052	1	YJ06002210	Jack, (3P)
J053	1	YJ06002220	Jack, (3P)
J054	1	YJ06002230	Jack, (2P)
J056	1	YJ06002240	Jack, (2P)
J057	1	YJ06002250	Jack, (3P)
J061	1	YJ06002300	Jack, (3P)
J062	1	YJ06002310	Jack, (3P)
▲ L001	1	TS60508010	Power Transformer
▲ L011	1	LY20480050	Relay FRL263
▲ Q001	1	HD20004290	Diode S5VB-20
▲ R001	1	GS10222030	Resistor 2.2K Ω \pm 10% 3W
▲ R002	1	GS10222030	Resistor 2.2K Ω \pm 10% 3W
R003	1	GD05332140	Resistor 3.3K Ω \pm 5% 1W
C011	1	DF17105540	Film 1 μ F \pm 20%
C012	1	DF17105540	Film 1 μ F \pm 20%
C013	1	DF17105540	Film 1 μ F \pm 20%
C014	1	DF17105540	Film 1 μ F \pm 20%
C015	1	DF16105520	Film 1 μ F \pm 10%
C016	1	DF16105520	Film 1 μ F \pm 10%
J058	1	YU08200010	Jumper Lead 115mm
J059	1	YU06200010	Jumper Lead
043F	1	59030805P1	Washer
053F	1	62030039W0	Lug For Chassis
007L	8	2144259020	Bushing For Power Transistor
013L	2	51280308U0	B.H. Tapped Screw B3 x 8
034L	1	2144267040	Heatsink
035L	2	51280308B0	B.H.M. Screw B3 x 8
049L	1	2144109040	Shield
070F	2	9510601010	1A 250V FUSE (LABEL)
071F	4	62051870W0	Lug for C011~C014

• Packing Materials



REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
001S	1	2144801010	Packing Case
003S	1	9090909040	Polyethylene Sheet
004S	1	2144809020	Cushion
005S	1	2864804010	Sleeve
006S	1	9013025010	Polyethylene Bag
007S	1	2144851110	Instructions
008S	1	2139809010	Cushion (R)
009S	1	2139809020	Cushion (L)

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
010S	1	9631000110	Guarantee Card
012S	2	9526019040	Serial No. Card
013S	1	2976813020	Envelope
014S	1	2976851040	Instructions
018S	1	9650000030	S. Station Card
020S	1	2144807010	Reinforcing Sheet
023S	1	2461107010	

□電気部品表

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
P400	1	WK21441510	P400-PRE-AMP. CIRCUIT BOARD P.W. Board, Pre-Amp.
			P400-CAPACITORS
CM01	1	EA22700690	Elect 220μF 6.3V
CM02	1	EA22700690	Elect 220μF 6.3V
CM03	1	DF16152510	Film 0.0015μF ±10%
CM04	1	DF16152510	Film 0.0015μF ±10%
CM05	1	EA10800690	Elect 1000μF 6.3V
CM06	1	EA10800690	Elect 1000μF 6.3V
CM07	1	EA10800690	Elect 1000μF 6.3V
CM08	1	EA10800690	Elect 1000μF 6.3V
CM09	1	DF16222510	Film 0.0022μF ±10%
CM10	1	DF16222510	Film 0.0022μF ±10%
CM11	1	DF16222510	Film 0.0022μF ±10%
CM12	1	DF16222510	Film 0.0022μF ±10%
CM13	1	DF16222510	Film 0.0022μF ±10%
CM14	1	DF16222510	Film 0.0022μF ±10%
CM15	1	EA10602530	Elect 10μF 25V
CM16	1	EA10602530	Elect 10μF 25V
CM17	1	DF76470550	Film 47pF ±10%
CM18	1	DF76470550	Film 47pF ±10%
CM19	1	EA22603590	Elect 22μF 35V
CM20	1	EA22603590	Elect 22μF 35V
CM21	1	EA47701690	Elect 470μF 16V
CM22	1	EA47701690	Elect 470μF 16V
CM23	1	DF16152510	Film 0.0015μF ±10%
CM24	1	DF16152510	Film 0.0015μF ±10%
C401	1	DF76101550	Film 100pF ±10%
C402	1	DF76101550	Film 100pF ±10%
C403	1	EA10800690	Elect 1000μF 6.3V
C404	1	EA10800690	Elect 1000μF 6.3V
C405	1	EA10800690	Elect 1000μF 6.3V
C406	1	EA10800690	Elect 1000μF 6.3V
C407	1	DF16222510	Film 0.0022μF ±10%
C408	1	DF16222510	Film 0.0022μF ±10%
C409	1	DF16222510	Film 0.0022μF ±10%
C410	1	DF16222510	Film 0.0022μF ±10%
C411	1	DF16152300	Film 1500pF ±10%
C412	1	DF16152300	Film 1500pF ±10%
C413	1	DF55681090	Film 680pF ±5%
C414	1	DF55681090	Film 680pF ±5%
C415	1	DF74333010	Film 0.033μF ±2%
C416	1	DF74333010	Film 0.033μF ±2%
C417	1	DF74104010	Film 0.1μF ±2%
C418	1	DF74104010	Film 0.1μF ±2%
C419	1	DF14362010	Film 3600pF ±2%
C420	1	DF14362010	Film 3600pF ±2%
C421	1	DF64272010	Film 2700pF ±2%
C422	1	DF64272010	Film 2700pF ±2%
C423	1	DF16152510	Film 1500pF ±10%
C424	1	DF16152510	Film 1500pF ±10%
C425	1	EA22703590	Elect 220μF 35V
C426	1	EA22703590	Elect 220μF 35V
C435	1	DF55681090	Film 680pF ±5%
C436	1	DF55681090	Film 680pF ±5%
C801	1	EB10805070	Elect 1000μF 50V
C802	1	EB10805070	Elect 1000μF 50V
C805	1	DF55391090	Film 390pF ±5%
C806	1	DF55391090	Film 390pF ±5%
C807	1	EA10701030	Elect 100μF 10V

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
C808	1	EA10701030	Elect 100μF 10V
C809	1	EA10505030	Elect 1μF 50V
C810	1	EA10505030	Elect 1μF 50V
± C811	1	EA22703590	Elect 220μF 35V
± C812	1	EA22703590	Elect 220μF 35V
C815	1	DK18103510	Ceramic 0.01μF
C816	1	DK18103510	Ceramic 0.01μF
C817	1	DK18103510	Ceramic 0.01μF
C818	1	DK18103510	Ceramic 0.01μF
			P400-RESISTORS (All Resistors are ±5% and 1/4W)
RM01	1	GM21415000	150Ω ±2%
RM02	1	GM21415000	150Ω ±2%
RM03	1	GM21415000	150Ω ±2%
RM04	1	GM21415000	150Ω ±2%
RM05	1	GD05010140	1Ω
RM06	1	GD05010140	1Ω
RM07	1	GM21447000	470Ω ±2%
RM08	1	GM21447000	470Ω ±2%
RM09	1	GM21447000	470Ω ±2%
RM10	1	GM21447000	470Ω ±2%
RM11	1	GM21456010	5.6KΩ ±2%
RM12	1	GM21456010	5.6KΩ ±2%
RM13	1	GM21456010	5.6KΩ ±2%
RM14	1	GM21456010	5.6KΩ ±2%
RM15	1	GD05150140	15Ω
RM16	1	GD05150140	15Ω
RM17	1	GD05150140	15Ω
RM18	1	GD05150140	15Ω
RM19	1	GM21447000	470Ω ±2%
RM20	1	GM21447000	470Ω ±2%
RM21	1	GM21447000	470Ω ±2%
RM22	1	GM21447000	470Ω ±2%
RM23	1	GM214270G0	27Ω ±2%
RM24	1	GM214270G0	27Ω ±2%
RM25	1	GD05680140	680Ω
RM26	1	GD05680140	680Ω
RM27	1	GD05680140	680Ω
RM28	1	GD05680140	680Ω
RM29	1	GD05562140	5.6KΩ
RM30	1	GD05562140	5.6KΩ
RM31	1	GD05272140	2.7KΩ
RM32	1	GD05272140	2.7KΩ
RM33	1	GD05332140	3.3KΩ
RM34	1	GD05332140	3.3KΩ
RM39	1	GD05101140	100Ω
RM40	1	GD05101140	100Ω
RM41	1	GD05273140	27KΩ
RM42	1	GD05273140	27KΩ
RM43	1	GA05471010	470Ω 1W
RM44	1	GA05471010	470Ω 1W
R401	1	GM21439020	39KΩ ±2%
R402	1	GM21439020	39KΩ ±2%
R403	1	GM21410030	100KΩ ±2%
R404	1	GM21410030	100KΩ ±2%
R405	1	GM21410030	100KΩ ±2%
R406	1	GM21410030	100KΩ ±2%
R407	1	GM21410030	100KΩ ±2%
R408	1	GM21410030	100KΩ ±2%
R409	1	GM21410010	100Ω ±2%
R410	1	GM21410010	100Ω ±2%

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION		REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
R411	1	GM21410010	1KΩ ±2%		R801	1	GD05151140	150Ω
R412	1	GM21410010	1KΩ ±2%		R802	1	GD05151140	150Ω
R413	1	GM21410010	1KΩ ±2%		R803	1	GD05102140	1KΩ
R414	1	GM21410010	1KΩ ±2%		R804	1	GD05102140	1KΩ
R415	1	GD05822140	8.2KΩ		R805	1	GG05272120	2.7KΩ ½W
R416	1	GD05822140	8.2KΩ		R806	1	GG05272120	2.7KΩ ½W
R417	1	GD05682140	6.8KΩ		R807	1	GD05183140	18KΩ
R418	1	GD05682140	6.8KΩ		R808	1	GD05183140	18KΩ
R419	1	GD05822140	8.2KΩ		R809	1	GD05512140	5.1KΩ
R420	1	GD05822140	8.2KΩ		R810	1	GD05512140	5.1KΩ
R421	1	GD05682140	6.8KΩ					P400-SEMICONDUCTORS
R422	1	GD05682140	6.8KΩ		Q417	1	HT323201FO	Transistor 2SC2320(F)
R423	1	GD05151140	150Ω		Q418	1	HT323201FO	Transistor 2SC2320(F)
R424	1	GD05151140	150Ω		Q419	1	HT325912B0	Transistor 2SC2591(Q or R)
R425	1	GD05151140	150Ω		Q420	1	HT325912B0	Transistor 2SC2591(Q or R)
R426	1	GD05151140	150Ω		Q421	1	HT111112B0	Transistor 2SA1111(Q or R)
R427	1	GM21456020	56KΩ ±2%		Q422	1	HT111112B0	Transistor 2SA1111(Q or R)
R428	1	GM21456020	56KΩ ±2%		Q423	1	HD20011050	Diode 1S1555
R429	1	GM21456020	56KΩ ±2%		Q424	1	HD20011050	Diode 1S1555
R430	1	GM21456020	56KΩ ±2%		Q425	1	HD20011050	Diode 1S1555
R431	1	GM214390G0	39Ω ±2%		Q426	1	HD20011050	Diode 1S1555
R432	1	GM214390G0	39Ω ±2%		Q427	1	HD20011050	Diode 1S1555
R433	1	GD05272140	2.7KΩ		Q801	1	HT325912B0	Transistor 2SC2591(Q or R)
R434	1	GD05272140	2.7KΩ		Q802	1	HT111112B0	Transistor 2SA1111(Q or R)
R435	1	GD05272140	2.7KΩ		Q803	1	HT322402A0	Transistor 2SC2240(GR or BL)
R436	1	GD05272140	2.7KΩ		Q804	1	HT109702A0	Transistor 2SA970(GR or BL)
R437	1	GD05151140	150Ω		Q805	1	HF200301C0	F.E.T. 2SK30A(Y)
R438	1	GD05151140	150Ω		Q806	1	HF200301C0	F.E.T. 2SK30A(Y)
R439	1	GD05151140	150Ω		Q807	1	HT317752D0	Transistor 2SC1775A(D or E)
R440	1	GD05151140	150Ω		Q808	1	HT108722D0	Transistor 2SA872A(D or E)
R441	1	GD05182140	1.8KΩ		Q809	1	HD30008010	Zener HZ6B1L
R442	1	GD05182140	1.8KΩ		Q810	1	HD30008010	Zener HZ6B1L
R443	1	GD05272140	2.7KΩ		Q811	1	HD20015030	Diode DS135D
R444	1	GD05272140	2.7KΩ		Q812	1	HD20015030	Diode DS135D
R445	1	GD05100140	10Ω		Q813	1	HD20015030	Diode DS135D
R446	1	GD05100140	10Ω		Q814	1	HD20015030	Diode DS135D
R447	1	GD05100140	10Ω					P400-MISCELLANEOUS
R448	1	GD05100140	10Ω		J401	1	YT02040330	Terminal (4P) RCA
R449	1	GD05100140	10Ω		J402	1	YT02040330	Terminal (4P) RCA
R450	1	GD05100140	10Ω		J403	1	YT02040330	Terminal (4P) RCA
R451	1	GD05100140	10Ω		J404	1	YP01001030	Plug (3P)
R452	1	GD05100140	10Ω		J405	1	YP01001030	Plug (3P)
R453	1	GM21422010	2.2KΩ ±2%		J406	1	YP01001030	Plug (3P)
R454	1	GM21422010	2.2KΩ ±2%		J407	1	YP10001980	Plug (2P)
R455	1	GM214680G0	68Ω ±2%		J408	1	YP10001980	Plug (2P)
R456	1	GM214680G0	68Ω ±2%		J409	1	YP06001040	Plug (3P)
R457	1	GD05391140	390Ω		J414	1	YP01001030	Plug (3P)
R458	1	GD05391140	390Ω		J415	1	YP01001030	Plug (3P)
R459	1	GD05224140	220KΩ		J416	1	YJ06001040	Jack (3P)
R460	1	GD05224140	220KΩ		L401	1	LY20240160	Relay FRL-644D24/2BS
R461	1	GG05820120	82Ω ½W		S401	1	SR00050040	Rotary Switch, Phono Selector
R462	1	GG05820120	82Ω ½W		S402	1	SS06060030	Slide Switch Phono
R463	1	GD05561140	560Ω		S411	1	SC00030010	Switch, Input Selector
R464	1	GD05561140	560Ω		S412	1	SB13070020	Switch Band, FLX
R465	1	GD05221140	220Ω		S413	1	SS08040020	Slide Switch 8-4 S Main
R466	1	GD05221140	220Ω		S421	1	SC00030010	Switch, Tape Copy
R467	1	GD05221140	220Ω		S422	1	SB13970010	Switch Band, FLX, Tape copy
R468	1	GD05221140	220Ω		S423	1	SS04040040	Slide Switch 4-4 NS Main
R471	1	GD05222140	2.2KΩ		S431	1	SC00030010	Switch, Tape Monitor
R472	1	GD05222140	2.2KΩ		S432	1	SB13670010	Switch Band, FLX, Tape Monitor
					S433	1	SS04040040	Slide Switch 4-4 NS Main

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
P401	1	WH21441330	P401-MM TRANSISTOR BLOCK CIRCUIT BOARD P.W. Board, MM Transistor Block
Q401	1	HF201512B0	P401-SEMICONDUCTORS
Q402	1	HF201512B0	F.E.T. 2SK151(F or G)
Q403	1	HF100512B0	F.E.T. 2SK151(F or G)
Q404	1	HF100512B0	F.E.T. 2SJ51(F or G)
Q405	1	HT322401B0	Transistor 2SC2240(BL)
Q406	1	HT322401B0	Transistor 2SC2240(BL)
Q407	1	HT109701B0	Transistor 2SA970(BL)
Q408	1	HT109701B0	Transistor 2SA970(BL)
Q409	1	HT109701A0	Transistor 2SA970(GR)
Q410	1	HT109701A0	Transistor 2SA970(GR)
Q411	1	HT322401A0	Transistor 2SC2240(GR)
Q412	1	HT322401A0	Transistor 2SC2240(GR)
Q413	1	HT108722D0	Transistor 2SA872A(D or E)
Q414	1	HT108722D0	Transistor 2SA872A(D or E)
Q415	1	HT317752D0	Transistor 2SC1775A(D or E)
Q416	1	HT317752D0	Transistor 2SC1775A (D or E)
J412	1	YP06000750	P401-PLUGS
J413	1	YP06000750	Plug, (14P)
J413	1	YP06000750	Plug, (14P)
P600	1	WK21441210	P600-OUTPUT AMP. CIRCUIT BOARD P.W. Board, Output Amp.
C601	1	DF76470550	P600-CAPACITORS
C602	1	DF76470550	Film 47pF ±10%
C603	1	EA10602530	Film 47pF ±10%
C604	1	EA10602530	Elect 10μF 25V
C605	1	DF16104350	Elect 10μF 25V
C606	1	DF16104350	Film 0.1μF ±10%
C609	1	DF17104520	Film 0.1μF ±10%
C610	1	DF17104520	Film 0.1μF ±20%
C613	1	EA10505030	Film 0.1μF ±20%
C614	1	EA47602530	Elect 1μF 50V
C615	1	EA22601630	Elect 1μF 50V
C616	1	EA22708020	Elect 220μF 80V
C617	1	EA22708020	Elect 220μF 80V
C620	1	DK18103510	Ceramic 0.01μF
C621	1	DK18103510	Ceramic 0.01μF
C622	1	DK18103510	Ceramic 0.01μF
C625	1	DF16222350	Film 2200pF ±10%
C626	1	EA10602530	Elect 10μF 25V
C627	1	DF16473350	Film 0.047μF ±10%
C628	1	DF16473350	Film 0.047μF ±10%
C631	1	DF16105510	Film 1μF ±10%
C632	1	DF16105510	Film 1μF ±10%
C633	1	DF16223300	Film 0.022μF ±10%
C634	1	DF16223300	Film 0.022μF ±10%
C635	1	EA10610010	Elect 10μF 100V
C636	1	EA10610010	Elect 10μF 100V
C637	1	EA10610010	Elect 10μF 100V
C638	1	EA10610010	Elect 10μF 100V
C640	1	EA22601630	Elect 22μF 16V
C641	1	DF76220500	Film 22pF ±10%
C642	1	DF76220500	Film 22pF ±10%

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
R601	1	GD05472140	P600-RESISTORS (All Resistors are ±5% and 1/2W)
R602	1	GD05472140	4.7KΩ
R603	1	GD05153140	4.7KΩ
R604	1	GD05153140	15KΩ
R605	1	GD05102140	15KΩ
R606	1	GD05102140	1KΩ
R607	1	GD05683140	1KΩ
R608	1	GD05683140	68KΩ
R609	1	GD05683140	68KΩ
R610	1	GD05683140	68KΩ
R611	1	GD05821140	820Ω
R612	1	GD05821140	820Ω
R613	1	GG05101140	100Ω
R614	1	GG05101140	100Ω
R615	1	GG05101140	100Ω
R616	1	GG05101140	100Ω
R617	1	GG05471140	470Ω
R618	1	GG05471140	470Ω
R619	1	GA05103010	10KΩ
R620	1	GA05103010	10KΩ
R621	1	GG05330140	33Ω
R622	1	GG05330140	33Ω
R623	1	GG05330140	33Ω
R624	1	GG05330140	33Ω
R625	1	GG05470140	47Ω
R626	1	GG05470140	47Ω
R627	1	GG05330140	33Ω
R628	1	GG05330140	33Ω
R629	1	GG05220140	22Ω
R630	1	GG05220140	22Ω
R631	1	GG05220140	22Ω
R632	1	GG05220140	22Ω
R633	1	GG05220140	22Ω
R634	1	GG05220140	22Ω
R635	1	GG05220140	22Ω
R636	1	GG05220140	22Ω
R637	1	GO10272050	0.27Ω
R638	1	GO10272050	0.27Ω
R639	1	GO10272050	0.27Ω
R640	1	GO10272050	0.27Ω
R641	1	GO10272050	0.27Ω
R642	1	GO10272050	0.27Ω
R643	1	GO10272050	0.27Ω
R644	1	GO10272050	0.27Ω
R645	1	GD05472140	4.7KΩ
R646	1	GD05472140	4.7KΩ
R649	1	GD05682140	6.8KΩ
R650	1	GD05102140	1KΩ
R651	1	GD05273140	27KΩ
R652	1	GD05273140	27KΩ
R653	1	GA05100030	10Ω
R654	1	GA05100030	10Ω
R655	1	RC10022120	2.2Ω
R656	1	RC10022120	2.2Ω
R657	1	GD05823140	82KΩ
R658	1	GD05823140	82KΩ
R659	1	GD05393140	39KΩ
R660	1	GD05104140	100KΩ
R661	1	GD05473140	47KΩ
R662	1	GD05473140	47KΩ

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION			
R663	1	GD05274140	270KΩ			
R664	1	GD05183140	18KΩ			
R666	1	GD05223140	22KΩ			
R667	1	GD05183140	18KΩ			
R668	1	GA05152010	1.5KΩ 1W			
R669	1	GG05272120	2.7KΩ ½W			
R670	1	HD30037090	Zener BZ-140			
R671	1	GA05103010	10KΩ 1W			
R672	1	GA05103010	10KΩ 1W			
			P600-SEMICONDUCTORS			
Q601	1	HT315681S0	Transistor 2SC1568(S)	C701	1	DF55101090
Q602	1	HT315681S0	Transistor 2SC1568(S)	C702	1	DF55101090
Q603	1	HT110152A0	Transistor 2SA1015(Q or Y)	C703	1	DF76470550
Q604	1	HT110152A0	Transistor 2SA1015(Q or Y)	C704	1	DF76470550
Q605	1	HT326322R0	Transistor 2SC2632(R or S)	C709	1	DF76220550
Q606	1	HT326322R0	Transistor 2SC2632(R or S)	C710	1	DF76220550
Q607	1	HT111242R0	Transistor 2SA1124(R or S)	C711	1	DF16474510
Q608	1	HT111242R0	Transistor 2SA1124(R or S)	C712	1	DF16474510
Q609	1	HT325912B0	Transistor 2SC2591(Q or R)	C713	1	DF16102350
Q610	1	HT111112B0	Transistor 2SA1111(Q or R)	C714	1	DF16102350
Q611	1	HT325912B0	Transistor 2SC2591(Q or R)	C715	1	EA47701630
Q612	1	HT111112B0	Transistor 2SA1111(Q or R)	C716	1	EA47701630
△Q613	1	HT327062A0	Transistor 2SC2706(R or O)	C778	1	DF16102510
Q614	1	HT111462A0	Transistor 2SA1146(R or O)	C779	1	75061001P0
△Q615	1	HT327062A0	Transistor 2SC2706(R or O)	C780	1	DF15102350
△Q616	1	HT111462A0	Transistor 2SA1146(R or O)	C781	1	DF15102350
△Q617	1	HT327062A0	Transistor 2SC2706(R or O)			
Q618	1	HT111462A0	Transistor 2SA1146(R or O)			
△Q619	1	HT327062A0	Transistor 2SC2706(R or O)			
△Q620	1	HT111462A0	Transistor 2SA1146(R or O)			
Q621	1	HT318152A0	Transistor 2SC1815(O or Y)	R701	1	GD05224140
Q622	1	HT318152A0	Transistor 2SC1815(Q or Y)	R702	1	GD05224140
Q623	1	HT110152A0	Transistor 2SA1015(O or Y)	R703	1	GD05102140
Q624	1	HC10042050	IC TA7317P	R704	1	GD05102140
Q625	1	HD20010210	Diode 1S2471G	R705	1	GD05561140
Q626	1	HD20010210	Diode 1S2471G	R706	1	GD05561140
Q627	1	HD20010210	Diode 1S2471G	R707	1	GD05561140
Q628	1	HD20010210	Diode 1S2471G	R708	1	GD05561140
Q629	1	HD20015030	Diode DS135D	R709	1	GD05103140
Q630	1	HD20015030	Diode DS135D	R710	1	GD05103140
Q631	1	HD20015030	Diode DS135D	R711	1	GD05103140
Q632	1	HD20015030	Diode DS135D	R712	1	GD05103140
Q633	1	HD20011010	Diode W06C	R713	1	GD05102140
Q634	1	HD20011010	Diode W06C	R714	1	GD05102140
Q635	1	HD20011010	Diode W06C	R715	1	GD05102140
Q636	1	HD20011010	Diode W06C	R716	1	GD05102140
Q639	1	HD20011050	Diode 1S1555	R717	1	GD05473140
Q640	1	HD20015030	Diode DS135D	R718	1	GD05473140
Q641	1	HD20011050	Diode 1S1555	R721	1	GD05101140
△Q642	1	HD20015030	Diode DS135D	R722	1	GD05101140
△Q643	1	HD20015030	Diode DS135D	R723	1	GD05330140
△Q644	1	HD20015030	Diode DS135D	R724	1	GD05330140
△Q645	1	HD20015030	Diode DS135D	R725	1	GD05154140
Q647	1	HD20011050	Diode 1S1555	R726	1	GD05154140
Q648	1	HD20011050	Diode 1S1555	R727	1	GD05562140
Q649	1	HD30064090	Zener BZ-240	R728	1	GD05562140
			P600-MISCELLANEOUS	R729	1	GD05181140
L601	1	LJ28115090	Coil	R730	1	GD05181140
L602	1	LJ28115090	Coil	R731	1	GD05121140
L603	1	LY20240152	Relay	R732	1	GD05121140

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION			
P700	1	WK21441220	P700-VOLTAGE AMP. CIRCUIT BOARD P.W. Board, Voltage Amp.			
C701	1	DF55101090	P700-CAPACITORS	Film	100pF	±5%
C702	1	DF55101090		Film	100pF	±5%
C703	1	DF76470550		Film	47pF	±10%
C704	1	DF76470550		Film	47pF	±10%
C709	1	DF76220550		Film	22pF	±10%
C710	1	DF76220550		Film	22pF	±10%
C711	1	DF16474510		Film	0.47μF	±10%
C712	1	DF16474510		Film	0.47μF	±10%
C713	1	DF16102350		Film	0.001μF	±10%
C714	1	DF16102350		Film	0.001μF	±10%
C715	1	EA47701630	P700-RESISTORS (All Resistors are ±5% and ¼W)	Elect	470μF	16V
C716	1	EA47701630		Elect	470μF	16V
C771	1	EA47602530		Elect	47μF	25V
C772	1	EA47602530		Elect	47μF	25V
C773	1	EA47601630		Elect	47μF	16V
C775	1	EA10710010		Elect	100μF	100V
C776	1	EA10710010		Elect	100μF	100V
C777	1	DF16102510		Film	0.001μF	±10%
C778	1	DF16102510		Film	0.001μF	±10%
C779	1	75061001P0	Jumper			
C780	1	DF15102350		Film	0.001μF	±5%
C781	1	DF15102350		Film	0.001μF	±5%
R701	1	GD05224140	220KΩ			
R702	1	GD05224140	220KΩ			
R703	1	GD05102140	1KΩ			
R704	1	GD05102140	1KΩ			
R705	1	GD05561140	560Ω			
R706	1	GD05561140	560Ω			
R707	1	GD05561140	560Ω			
R708	1	GD05561140	560Ω			
R709	1	GD05103140	10KΩ			
R710	1	GD05103140	10KΩ			
R711	1	GD05103140	10KΩ			
R712	1	GD05103140	10KΩ			
R713	1	GD05102140	1KΩ			
R714	1	GD05102140	1KΩ			
R715	1	GD05102140	1KΩ			
R716	1	GD05102140	1KΩ			
R717	1	GD05473140	47KΩ			
R718	1	GD05473140	47KΩ			
R721	1	GD05101140	100Ω			
R722	1	GD05101140	100Ω			
R723	1	GD05330140	33Ω			
R724	1	GD05330140	33Ω			
R725	1	GD05154140</td				

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
R733	1	GD05472140	4.7KΩ
R734	1	GD05472140	4.7KΩ
R735	1	GD05472140	4.7KΩ
R736	1	GD05472140	4.7KΩ
R737	1	GD05472140	4.7KΩ
R738	1	GD05472140	4.7KΩ
R739	1	GD05472140	4.7KΩ
R740	1	GD05472140	4.7KΩ
R741	1	GG05271140	270Ω
R742	1	GG05271140	270Ω
R743	1	GG05271140	270Ω
R744	1	GG05271140	270Ω
R749	1	GD05273140	27KΩ
R750	1	GD05273140	27KΩ
R751	1	GA05272010	2.7KΩ 1W
R752	1	GA05182020	1.8KΩ 2W
R753	1	GD05104140	100KΩ
R754	1	GD05104140	100KΩ
R755	1	GD05222140	2.2KΩ
R756	1	GD05222140	2.2KΩ
R757	1	GD05222140	2.2KΩ
R758	1	GD05222140	2.2KΩ
R759	1	GD05102140	1KΩ
R760	1	GD05102140	1KΩ
R761	1	GD05474140	470KΩ
R762	1	GD05474140	470KΩ
R763	1	GD05474140	470KΩ
R764	1	GD05474140	470KΩ
R771	1	GD05102140	1KΩ
R772	1	GD05102140	1KΩ
R773	1	GD05332140	3.3KΩ
R774	1	GD05332140	3.3KΩ
R775	1	GD05272140	2.7KΩ
R776	1	GD05272140	2.7KΩ
R777	1	GA05472010	4.7KΩ 1W
R779	1	GD05473140	47KΩ
R780	1	GD05473140	47KΩ
R781	1	GD05123140	12KΩ
R782	1	GD05473140	47KΩ
R783	1	GD05821140	820Ω
P700-SEMICONDUCTORS			
Q701	1	HC10021020	IC M47F(C)
Q702	1	HC10021020	IC M47F(C)
Q703	1	HT322592F0	Transistor 2SC2259(F or G)
Q704	1	HT322592F0	Transistor 2SC2259(F or G)
Q705	1	HT109952A0	Transistor 2SA995(F or G)
Q706	1	HT109952A0	Transistor 2SA995(F or G)
Q707	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q708	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q709	1	HT109702A0	Transistor 2SA970(GR or BL)
Q710	1	HT109702A0	Transistor 2SA970(GR or BL)
Q713	1	HT109702A0	Transistor 2SA970(GR or BL)
Q714	1	HT109702A0	Transistor 2SA970(GR or BL)
Q715	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q716	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q717	1	HT111242R0	Transistor 2SA1124(R or S)
Q718	1	HT111242R0	Transistor 2SA1124(R or S)
Q719	1	HT326322R0	Transistor 2SC2632(R or S)
Q720	1	HT326322R0	Transistor 2SC2632(R or S)
Q721	1	HC10019020	IC AN6552(4558)
Q722	1	HC10019020	IC AN6552(4558)

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION
Q723	1	HD30025090	Zener WZ150
Q724	1	HD30025090	Zener WZ150
Q725	1	HD20011050	Diode 1S1555
Q726	1	HD20011050	Diode 1S1555
Q727	1	HD20011050	Diode 1S1555
Q728	1	HD20011050	Diode 1S1555
Q729	1	HD20011050	Diode 1S1555
Q730	1	HD20011050	Diode 1S1555
Q771	1	HT325902B0	Transistor 2SC2590(Q or R)
Q772	1	HT111102B0	Transistor 2SA1110(Q or R)
Q773	1	HT317752D0	Transistor 2SC1775A(D or E)
Q774	1	HT108722D0	Transistor 2SA872A(D or E)
Q775	1	HT317752D0	Transistor 2SC1775A(D or E)
Q776	1	HT108722D0	Transistor 2SA872A(D or E)
Q777	1	HD30009010	Zener HZ12B2L
J701	1	YP01001030	P700-PLUG Plug, (3P)
PE01	1	WK21441810	PE01-TONE AMP. CIRCUIT BOARD (L-CH) P.W. Board, Tone Amp. (L-ch)
CE01	1	EA47505030	PE01-CAPACITORS
CE03	1	DF55221090	Elect 4.7μF 50V
CE05	1	EA10701030	Film 220pF ±5%
CE07	1	EA10701030	Elect 100μF 10V
CE09	1	DF16472350	Elect 100μF 10V
CE11	1	DF16472350	Film 4700pF ±10%
CE13	1	DF76560550	Film 4700pF ±10%
CE15	1	EA10602530	Film 56pF ±10%
CE17	1	DF76100550	Elect 10μF 25V
CE19	1	EA10603530	Film 10pF ±10%
CE21	1	DF15563300	Elect 10μF 35V
CE23	1	DF15563300	Film 0.056μF ±5%
CE25	1	DF15393300	Film 0.056μF ±5%
CE27	1	DF16472350	Film 0.039μF ±5%
CE29	1	EA10702530	Film 4700pF ±10%
CE31	1	EA10702530	Elect 100μF 25V
CE33	1	EA47503530	Elect 100μF 25V
CE35	1	DF55221090	Film 4.7μF 35V
CE37	1	DF76101550	Film 220pF ±5%
CE39	1	EA47601030	Film 100pF ±10%
CE41	1	DF76470550	Elect 47μF 10V
CE43	1	DF76101550	Film 47pF ±10%
CE45	1	DF76150550	Film 100pF ±10%
CE47	1	EA47503530	Film 15pF ±10%
RE01	1	GD05224140	PE01-RESISTORS (All Resistors are ±5% and 1/4W)
RE03	1	GD05331140	220KΩ
RE05	1	GD05821140	330Ω
RE07	1	GD05821140	820Ω
RE09	1	GD05183140	820Ω
RE11	1	GD05183140	18KΩ
RE13	1	GD05330140	18KΩ
RE15	1	GD05330140	33Ω
RE17	1	GD05153140	33Ω
RE19	1	GD05153140	15KΩ

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION			
RE21	1	GD05101140	100Ω			
RE23	1	GD05101140	100Ω			
RE25	1	GD05472140	4.7KΩ			
RE27	1	GD05272140	2.7KΩ			
RE29	1	GD05392140	3.9KΩ			
RE31	1	GF05150140	15Ω			
RE33	1	GF05150140	15Ω			
RE35	1	GD05821140	820Ω*			
RE37	1	GD05822140	8.2KΩ			
RE39	1	GD05822140	8.2KΩ			
RE41	1	GD05391140	390Ω			
RE43	1	GD05473140	47KΩ			
RE45	1	GD05224140	220KΩ			
RE47	1	GD05221140	220Ω			
RE49	1	GD05471120	470Ω ½W			
RE51	1	GD05471120	470Ω ½W			
RE53	1	RK05030330	50KΩ(B), Variable			
RE55	1	RK02030530	20KΩ(B), Variable			
RE57	1	GD05684140	680KΩ			
RE59	1	GD05224140	220KΩ			
RE61	1	GD05331140	330Ω			
RE63	1	GD05182140	1.8KΩ			
RE65	1	GD05224140	220KΩ			
RE67	1	GD05333140	33KΩ			
RE69	1	GD05182140	1.8KΩ			
RE71	1	GD05684140	680KΩ			
RE73	1	GD05224140	220KΩ			
PE01-SEMICONDUCTORS						
QE01	1	HT322401A0	Transistor 2SC2240(GR)			
QE03	1	HT109701A0	Transistor 2SA970(GR)			
QE05	1	HT108722D0	Transistor 2SA872A(D or E)			
QE07	1	HT317752D0	Transistor 2SC1775A(D or E)			
QE09	1	HT323201F0	Transistor 2SC2320(E or F)			
QE11	1	HT406661C0	Transistor 2SD666(C)			
QE13	1	HT206461C0	Transistor 2SB646(C)			
QE15	1	HC10011200	IC M5213L			
PE01-PLUG						
JE01	1	YP06000730	Plug, (12P)			
JS01	1	YU09045210	Jumper Lead			
PE02-TONE AMP. CIRCUIT BOARD (R-CH)						
PE02	1	WK21441820	P.W. Board, Tone Amp. (R-ch)			
PE02-CAPACITORS						
CE02	1	EA47505030	Elect 4.7μF 50V			
CE04	1	DF55221090	Film 220pF ±5%			
CE06	1	EA10701030	Elect 100μF 10V			
CE08	1	EA10701030	Elect 100μF 10V			
CE10	1	DF16472350	Film 4700pF ±10%			
CE12	1	DF16472350	Film 4700pF ±10%			
CE14	1	DF76560550	Film 56pF ±10%			
CE16	1	EA10602530	Elect 10μF 25V			
CE18	1	DF76100550	Film 10pF ±10%			
CE20	1	EA10603530	Elect 10μF 35V			
CE22	1	DF15563300	Film 0.056μF ±5%			
CE24	1	DF15563300	Film 0.056μF ±5%			
CE26	1	DF15393300	Film 0.039μF ±5%			
CE28	1	DF16472350	Film 4700pF ±10%			
CE30	1	EA10702530	Elect 100μF 25V			
CE32	1	EA10702530	Elect 100μF 25V			
CE34	1	EA47503530	Elect 4.7μF 35V			
CE36	1	DF55221090	Film 220pF ±5%			
CE38	1	DF76101550	Film 100pF ±10%			
CE40	1	EA47601030	Elect 47μF 10V			

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION			
CE42	1	DF76470550	Film 47pF ±10%			
CE44	1	DF76101550	Film 100pF ±10%			
CE46	1	DF76150550	Film 15pF ±10%			
CE48	1	EA47503530	Elect 4.7μF 35V			
CE49	1	DF15472300	Film 4700pF ±5%			
CE50	1	DF15472300	Film 4700pF ±5%			
PE02-RESISTORS						
(All Resistors are ±5% and ¼W)						
RE02	1	GD05224140	220KΩ			
RE04	1	GD05331140	330Ω			
RE06	1	GD05821140	820Ω			
RE08	1	GD05821140	820Ω			
RE10	1	GD05183140	18KΩ			
RE12	1	GD05183140	18KΩ			
RE14	1	GD05330140	33Ω			
RE16	1	GD05330140	33Ω			
RE18	1	GD05153140	15KΩ			
RE20	1	GD05153140	15KΩ			
RE22	1	GD05101140	100Ω			
RE24	1	GD05101140	100Ω			
RE26	1	GD05472140	4.7KΩ			
RE28	1	GD05272140	2.7KΩ			
RE30	1	GD05392140	3.9KΩ			
RE32	1	GF05150140	15Ω			
RE34	1	GF05150140	15Ω			
RE36	1	GD05821140	820Ω			
RE38	1	GD05822140	8.2KΩ			
RE40	1	GD05822140	8.2KΩ			
RE42	1	GD05391140	390Ω			
RE44	1	GD05473140	47KΩ			
RE46	1	GD05224140	220KΩ			
RE48	1	GD05221140	220Ω			
RE50	1	GD05471120	470Ω ½W			
RE52	1	GD05471120	470Ω ½W			
RE54	1	RK05030330	50KΩ(B), Variable			
RE56	1	RK02030530	20KΩ(B), Variable			
RE58	1	GD05684140	680KΩ			
RE60	1	GD05224140	220KΩ			
RE62	1	GD05331140	330Ω			
RE64	1	GD05182140	1.8KΩ			
RE66	1	GD05224140	220KΩ			
RE68	1	GD05333140	33KΩ			
RE70	1	GD05182140	1.8KΩ			
RE72	1	GD05684140	680KΩ			
RE74	1	GD05224140	220KΩ			
PE02-SEMICONDUCTORS						
QE02	1	HT322401A0	Transistor 2SC2240(GR)			
QE04	1	HT109701A0	Transistor 2SA970(GR)			
QE06	1	HT108722D0	Transistor 2SA872A(D or E)			
QE08	1	HT317752D0	Transistor 2SC1775A(D or E)			
QE10	1	HT323201F0	Transistor 2SC2320(E or F)			
QE12	1	HT406661C0	Transistor 2SD666(C)			
QE14	1	HT206461C0	Transistor 2SB646(C)			
QE16	1	HC10011200	IC M5213L			
PE02-PLUG						
JE02	1	YP06000730	Plug, (12P)			

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION			
PF00	1	WK21441850	PF00-LOUDNESS CIRCUIT BOARD P.W. Board, Loudness			
CF01	1	DF15473300	PF00-CAPACITORS Film 0.047μF ±5%	QM01	1	HT325451E0
CF02	1	DF15473300	Film 0.047μF ±5%	QM02	1	HT325451E0
CF03	1	DF15683300	Film 0.068μF ±5%	QM03	1	HT325451E0
CF04	1	DF15683300	Film 0.068μF ±5%	QM04	1	HT325451E0
RF01	1	GD05822140	PF00-RESISTORS 8.2KΩ ±5% ¼W	QM05	1	HT325451E0
RF02	1	GD05822140	8.2KΩ ±5% ¼W	QM06	1	HT325451E0
SF01	1	SC02030140	PF00-SWITCH Switch, Loudness	QM07	1	HT325451E0
PG00	1	WH21441310	PG00-BALANCE CONTROL CIRCUIT BOARD P.W. Board, Balance Control	QM08	1	HT110831E0
RG01	1	RM01040300	PG00-RESISTORS 100KΩ x 2 Variable, Balance	QM09	1	HT110831E0
RG02	1	RM01040360	100KΩ x 2 Variable	QM10	1	HT110831E0
SG01	1	SR04050180	PG00-SWITCH Rotary Switch, Mode	QM11	1	HT110831E0
PH00	1	WK21441520	PH00-FILTER CIRCUIT BOARD P.W. Board, Filter	QM12	1	HT110831E0
CH01	1	EA10603590	PH00-CAPACITORS Elect 10μF 35V	QM13	1	HT110831E0
CH02	1	EA10603590	Elect 10μF 35V	QM14	1	HT110831E0
CH03	1	DF16105510	Film 1μF ±10%	QM15	1	HT110831E0
CH04	1	DF16105510	Film 1μF ±10%	QM16	1	HT110831E0
RH01	1	GD05102140	PH00-RESISTORS (All Resistors are ±5% and ¼W)	QM17	1	HT108722D0
RH02	1	GD05102140	1KΩ	QM18	1	HT108722D0
RH03	1	GD05471140	1KΩ	QM19	1	HT317752D0
RH04	1	GD05471140	470Ω	QM20	1	HT317752D0
RH05	1	RA05020130	470Ω	QM21	1	HT323201F0
RH06	1	RA05020130	4.7KΩ, Trimming	QM22	1	HT323201F0
RH07	1	RA01020150	4.7KΩ, Trimming	QM23	1	HT406661C0
RH08	1	RA01020150	1KΩ, Trimming	QM24	1	HT406661C0
RH09	1	GD05221140	1KΩ, Trimming	QM25	1	HT206461C0
RH10	1	GD05473140	220Ω	QM26	1	HT206461C0
RH11	1	GD05473140	47KΩ	J410	1	YP06000750
RH12	1	GD05224140	47KΩ	J411	1	YP06000750
RH13	1	GD05224140	220KΩ			
SH01	1	SP04020290	PH00-SWITCH Push Switch			
PM01	1	WH21441320	PM01-MC TRANSISTOR BLOCK CIRCUIT BOARD P.W. Board, MC Transistor Block	CN01	1	DF16222350
RM35	1	GF05100140	PM01-RESISTORS 10Ω ±5% ¼W	CN02	1	DF16222350
RM36	1	GF05100140	10Ω ±5% ¼W	CN03	1	DF16222350
RM37	1	GF05100140	10Ω ±5% ¼W	CN04	1	DF16222350
RM38	1	GF05100140	10Ω ±5% ¼W	RN01	1	GD05331140

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION			
QM01	1	HT325451E0	PM01-SEMICONDUCTORS Transistor 2SC2545(E)			
QM02	1	HT325451E0	Transistor 2SC2545(E)			
QM03	1	HT325451E0	Transistor 2SC2545(E)			
QM04	1	HT325451E0	Transistor 2SC2545(E)			
QM05	1	HT325451E0	Transistor 2SC2545(E)			
QM06	1	HT325451E0	Transistor 2SC2545(E)			
QM07	1	HT325451E0	Transistor 2SC2545(E)			
QM08	1	HT325451E0	Transistor 2SC2545(E)			
QM09	1	HT110831E0	Transistor 2SA1083(E)			
QM10	1	HT110831E0	Transistor 2SA1083(E)			
QM11	1	HT110831E0	Transistor 2SA1083(E)			
QM12	1	HT110831E0	Transistor 2SA1083(E)			
QM13	1	HT110831E0	Transistor 2SA1083(E)			
QM14	1	HT110831E0	Transistor 2SA1083(E)			
QM15	1	HT110831E0	Transistor 2SA1083(E)			
QM16	1	HT110831E0	Transistor 2SA1083(E)			
QM17	1	HT108722D0	Transistor 2SA872A(D or E)			
QM18	1	HT108722D0	Transistor 2SA872A(D or E)			
QM19	1	HT317752D0	Transistor 2SC1775A(D or E)			
QM20	1	HT317752D0	Transistor 2SC1775A(D or E)			
QM21	1	HT323201F0	Transistor 2SC2320(E or F)			
QM22	1	HT323201F0	Transistor 2SC2320(E or F)			
QM23	1	HT406661C0	Transistor 2SD666(C)			
QM24	1	HT406661C0	Transistor 2SD666(C)			
QM25	1	HT206461C0	Transistor 2SB646(C)			
QM26	1	HT206461C0	Transistor 2SB646(C)			
J410	1	YP06000750	PM01-PLUGS Plug, (14P)			
J411	1	YP06000750	Plug, (14P)			
PN00	1	YH22870210	PN00-ASO PROTECTOR CIRCUIT BOARD P.W. Board, ASO Protector			
CN01	1	DF16222350	PN00-CAPACITORS Film 2200pF ±10%			
CN02	1	DF16222350	Film 2200pF ±10%			
CN03	1	DF16222350	Film 2200pF ±10%			
CN04	1	DF16222350	Film 2200pF ±10%			
RN01	1	GD05331140	PN00-RESISTORS (All Resistors are ±5% and ¼W)			
RN02	1	GD05331140	330Ω			
RN03	1	GD05331140	330Ω			
RN04	1	GD05331140	330Ω			
RN09	1	GD05472140	4.7KΩ			
RN10	1	GD05472140	4.7KΩ			
RN11	1	GD05472140	4.7KΩ			
RN12	1	GD05472140	4.7KΩ			
RN13	1	GD05273140	27KΩ			
RN14	1	GD05273140	27KΩ			
QN01	1	HT309452C0	PN00-SEMICONDUCTORS Transistor 2SC945(P or K)			
QN02	1	HT309452C0	Transistor 2SC945(P or K)			
QN03	1	HT107332C0	Transistor 2SA733(P or K)			
QN04	1	HT107332C0	Transistor 2SA733(P or K)			
QN05	1	HD20011050	Diode 1S1555			
QN06	1	HD20011050	Diode 1S1555			
QN07	1	HD20011050	Diode 1S1555			
QN08	1	HD20011050	Diode 1S1555			
QN09	1	HD20002210	Diode 1S2472			
QN10	1	HD20002210	Diode 1S2472			
QN11	1	HD20002210	Diode 1S2472			
QN12	1	HD20002210	Diode 1S2472			

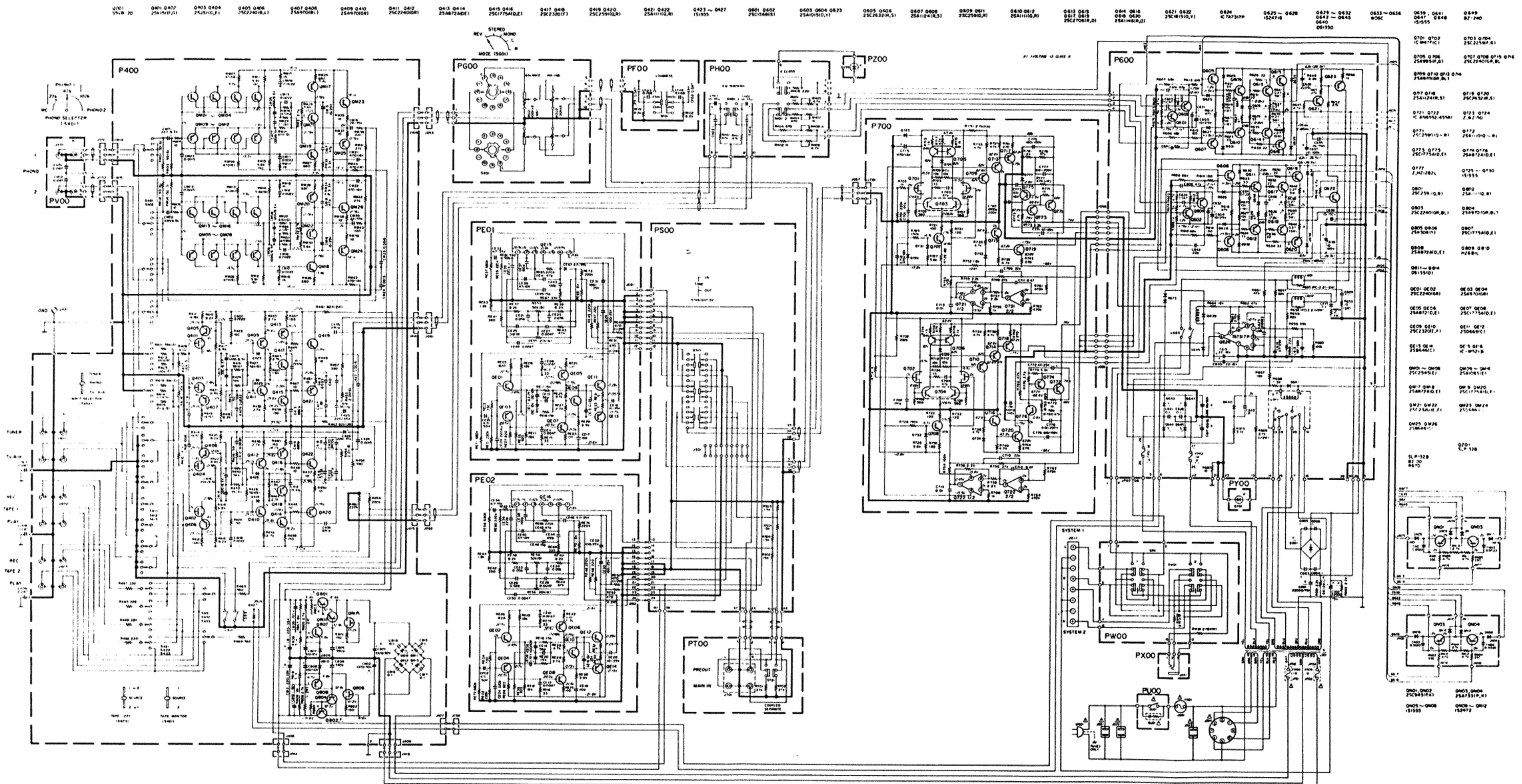
REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION				
PPO0	1	WF21440010	PP00-FUSE CIRCUIT BOARD P.W. Board, Fuse				
FP01	1	FS10100090	PP00-MISCELLANEOUS				
FP02	1	FS10100090	Fuse 1A 250V				
FP04	1	FS10100900	Fuse 1A 250V				
FP05	1	FS10100900	Fuse 1A 250V				
JP01	8	YJ08000170	Jack, Fuse Crip				
JP10							
PS00	1	WK21441830	PS00-STRAIGHT DC CIRCUIT BOARD				
			P.W. Board, Straight DC				
RS01	1	GD05153140	PS00-RESISTORS				
RS02	1	GD05153140	15KΩ ±5% ½W				
RS03	1	GD05152140	15KΩ ±5% ½W				
RS04	1	GD05152140	1.5KΩ ±5% ½W				
SS01	1	SC06030070	PS00-SWITCH				
			Switch, Straight DC				
PT00	1	WK21441840	PT00-PRE-OUT CIRCUIT BOARD				
			P.W. Board, Pre-Out				
RT01	1	GD05273140	RT02	1	GD05273140	Resistor 27KΩ ±5% ½W	
			Resistor 27KΩ ±5% ½W				
JT01	1	YT02040320	JT01	1	YT02040320	Terminal, (4P) RCA	
ST01	1	SS02020640	ST01	1	SS02020640	Slide Switch, Pre-Out	
PU00	1	WK21441550	PU00-POWER SWITCH CIRCUIT BOARD				
			P.W. Board, Power Switch				
LSU01	1	SP01010320	LSU01	1	SP01010320	Push Switch, Power	
GU01	1	BF10400030	GU01	1	BF10400030	Cap. Comp. 0.1μF + 120Ω	
PV00	1	WK21441860	PV00-PHONO INPUT CIRCUIT BOARD				
			P.W. Board, Phono Input				
CV01	1	DK18473320	CV01	1	DK18473320	Ceramic Cap. 0.047μF	
			Ceramic Cap. 0.047μF				
JV01	1	YT02040320	JV01	1	YT02040320	Terminal, (4P) RCA	
PW00	1	WK21441530	PW00-SPEAKER SWITCH CIRCUIT BOARD				
			P.W. Board, Speaker Switch				
RW01	1	GA05271010	RW01	1	GA05271010	Resistor 270Ω ±5% 1W	
			Resistor 270Ω ±5% 1W				
SW01	1	SP04020200	SW01	1	SP04020200	Push Switch, Speaker	

REF. DESIG.	Q'TY F	PART NO.	DESCRIPTION				
PX00	1	WK21441540	PX00-HEAD PHONE CIRCUIT BOARD				
			P.W. Board, Head Phone				
JX01	1	YJ01001340	JX01	1	YJ01001340	Jack, Head Phone	
PY00	1	WK21441880	PY00-L.E.D. POWER IND. CIRCUIT BOARD				
			P.W. Board, L.E.D. Power Ind.				
QY01	1	HI10004030	QY01	1	HI10004030	L.E.D. SLP132B	
PZ00	1	WK21441870	PZ00-L.E.D. CLASS, A IND. CIRCUIT BOARD				
			P.W. Board, L.E.D. Class A Ind.				
QZ01	1	HI10004030	QZ01	1	HI10004030	L.E.D. SLP132B	

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

SCHEMATIC DIAGRAM

Model Pm-6



Note on safety: The parts marked with \triangle are important parts on the safety. Please use the parts having the designated parts number without fail.

Components and wiring are subject to change for modification without notice.

□規格

Model Pm-6

定格出力(20Hz～20kHz両ch同時駆動).....	CLASS AB.....	120W×2 (8Ω負荷)
	CLASS A.....	30W×2 (8Ω負荷)
出力帯域幅(8Ω負荷, THD0.05%).....		5Hz～100kHz
全高調波歪率(20Hz～20kHz 8Ω負荷).....		0.03%以下
混変調歪率.....		0.015%以下
周波数特性(20Hz～20kHz).....		+0, -0.2dB
(5Hz～100kHz).....		+1, -1dB
ダンピングファクター(8Ω負荷).....		100以上
入力感度及びインピーダンス(メインアンプ入力).....		1.5V/15kΩ
フォノ 1(MM).....		2.5mV/27kΩ/47kΩ/100kΩ
フォノ 1(MC).....		125μV/75Ω
フォノ 2(MM).....		2.5mV/47kΩ
高レベル.....		150mV/40kΩ
定格出力及びインピーダンス.....	PRE OUT.....	1.5V/220Ω
	TAPE OUT.....	150mV/250Ω
PIAA偏差(20Hz～20kHz).....		±0.2dB
入力等化雑音(フォノ, IHF-A).....		0.24μV
ダイナミックレンジ(フォノ).....		120dB
トーンコントロール特性.....	(低域100Hz).....	±8dB
	(高域10kHz).....	±8dB
その他		
電 源.....		100V 50/60Hz
消費電力(電気用品取締法).....		350W
外形寸法(幅×高さ×奥行き)		416×146×332mm
重 量(セット単体).....		15.5kg

仕様規格及び外観は改良のため予告なく変更することがあります。