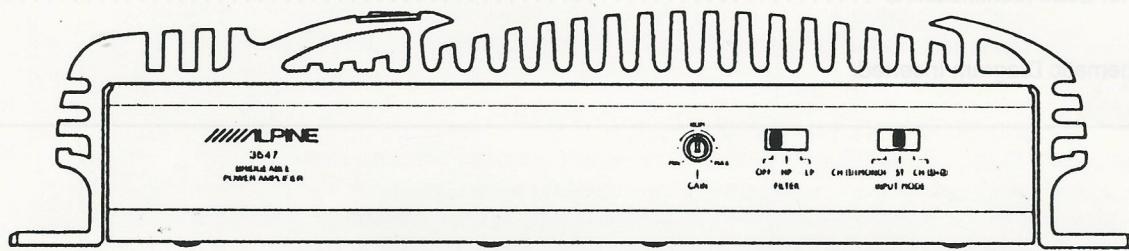


ALPINE® SERVICE MANUAL

Bridgeable Power Amplifier



サービス費用区分	D
技術資料 No.	PM-49-O

3547

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Additional Schematic Diagram Inserted.

Specifications

Power Output (20Hz~20kHz)	4ohm - 2channel, 0.08%T.H.D : 40W 2ohm - 2channel, 0.8%T.H.D : 50W 4ohm BTL, 0.8%T.H.D : 100W
S / N Ratio (40W / ch 4ohm Input Shorted)	100dB
Input Sensitivity (40W / ch output)	0.5V±2dB
Input Impedance	10k±2kohm
Frequency Response (1kHz)	15Hz~40kHz
Current Drain (No signal input)	1.5A
Residual Noise (Input shorted)	1.2mV
Channel Separation (1kHz)	60dB
Fuse Requirement	20A (Battery)
Power Source	DC 14.4V (11V~16V)
Semiconductors	6 IC's, 28 Transistors, 18 Diodes, 5 Zener Diodes, 2 FET's
Dimension (W×H×D)	220×51×160mm
Weight	1.9kg

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bris ,yifidate,jeftwle inelotet (M.I.T) ymochelis mofelbormant signal source
while the amplifier is in operation.

Control

• Speaker Output Terminals: CURRENT LIMITING CM-4

Mode — M.I.T wol zemane noise load edd alretent the CM-4 speaker connection
— If you are using a single speaker system, connect the right speaker output to the right speaker and the left, connect the positive terminal to the positive speaker terminal and the negative terminal to the negative speaker terminal. Do not connect both speaker terminals to common ground.
— If you are using two speakers, connect them to the vehicle's chassis ground.

NOTE:

Do not connect speaker loads together or to chassis ground.

• RCA Input Connectors

Connect these connectors to the line out leads on your head unit using
RCA extension cables (sold separately). Be sure to observe correct
channel connections: Left to Left, Right to Right, Front to Front, and Rear
to Rear.

FEATURES

- **MULTIMODE CAPABILITY**

Multimode capability allows the 3547 to operate in its 2-channel stereo, and bridged mono modes simultaneously. This way, the amplifier can power a pair of satellite speakers, along with a bridged mono subwoofer, and/or a true center channel speaker.

- **3, 2, OR 1 CHANNEL OPERATION**

Thanks to its Multimode capability, the 3547 can simultaneously drive a pair of satellite speakers in stereo, along with a bridged mono subwoofer (and/or center channel speaker) for a total of 3 channels. In addition to Multimode, the 3547 can be driven in a conventional 2-channel mode, or its two channels can be bridged into a single channel of considerably higher power output.

- **ACTIVE DIVIDING NETWORK**

A built-in, switchable electronic crossover network at 80 Hz, 18 dB per octave, can be used to set up the amplifier for low-pass (subwoofer) or high-pass (tweeter/midrange satellite) applications. This network can also be switched off to allow full-range signal amplification.

- **DUO- β FEEDBACK CIRCUITRY**

Alpine's proprietary Duo-Beta is a technologically advanced form of feedback circuitry. Duo-Beta supplies low negative feedback throughout the audio frequency bandwidth and very high negative feedback at DC. This stabilizes the amplifier, removes DC offset, and offers excellent total harmonic distortion (T.H.D.) characteristics. It also provides low transient intermodulation distortion (T.I.M.), excellent slew rate, stability, and musicality.

- **NO CURRENT LIMITING**

Absence of current limiters in the audio section ensures low T.I.M., excellent transient response, and superb sonic quality.

- **S.T.A.R. CIRCUITRY**

The Alpine-developed Signal Transit for Accurate Response circuit topology improves sonic properties by reducing interaction between different sections of the circuitry.

FEATURES

- **INPUT MODE SELECTOR**

This switch allows the user to specify the input signal entering the amplifier.

- a. **ST (Stereo) Mode:**

Allows the right and left channels to reach their designated amplifier channels. This mode provides a stereo output or a center channel common information output (when used in the bridged configuration).

- b. **1 (MONO) Mode:**

Disables the right channel input connector and routes the signal through the channel input to all sections of the amplifier. This mode can be used when a single (mono) signal is amplified (either in stereo or bridged operation).

- c. **1+2 Mode:**

Sums the right and left channel input signals and routes the result to all sections of the amplifier. It can be used in stereo or bridged operation to provide a summed (mono) output.

- **DC-TO-DC SWITCHING MODE POWER SUPPLY**

Provides excellent power output throughout the audio bandwidth 20 Hz to 20 kHz. Its soft clipping characteristics ensure superb transient response and musicality.

- **EXTRA HEAVY DUTY CONSTRUCTION**

Glass-epoxy printed circuit boards and separate high current power transfer bus-bars for primary voltage and ground connections inside the amplifier.

- **CONTINUOUSLY ADJUSTABLE INPUT GAIN CONTROL**

For matching the 3547 with components with a preamp output level other than 500 mV (the standard preamp output level of Alpine equipment). Also used to obtain certain imaging characteristics or to compensate for different speaker efficiencies.

- **FULLY DISCRETE, COMPLEMENTARY OUTPUT CIRCUITRY**

For excellent reliability, superb sonic performance and high current capability for accurate transient response.

- **GOLD-PLATED, SCREW-DOWN POWER AND SPEAKER TERMINALS**

For high definition, minimum loss power transfer and oxidization resistance.

FEATURES

- HIGH PERFORMANCE, LOW NOISE, AUDIOPHILE QUALITY ACTIVE AND PASSIVE COMPONENTS

For best possible performance and consistency from unit to unit.

- VOLTAGE REGULATED/FILTERED INPUT STAGES

For excellent stability & low noise.

- GOLD-PLATED RCA INPUT CONNECTORS

For most accurate signal transmission and lowest possible loss. Gold-plated terminals are immune to signal deterioration caused by corrosion in the connectors that can develop over time.

- THIRD-ORDER, (18 dB PER OCTAVE) CAPACITIVE/INDUCTIVE POWER SUPPLY INPUT AND OUTPUT FILTERING

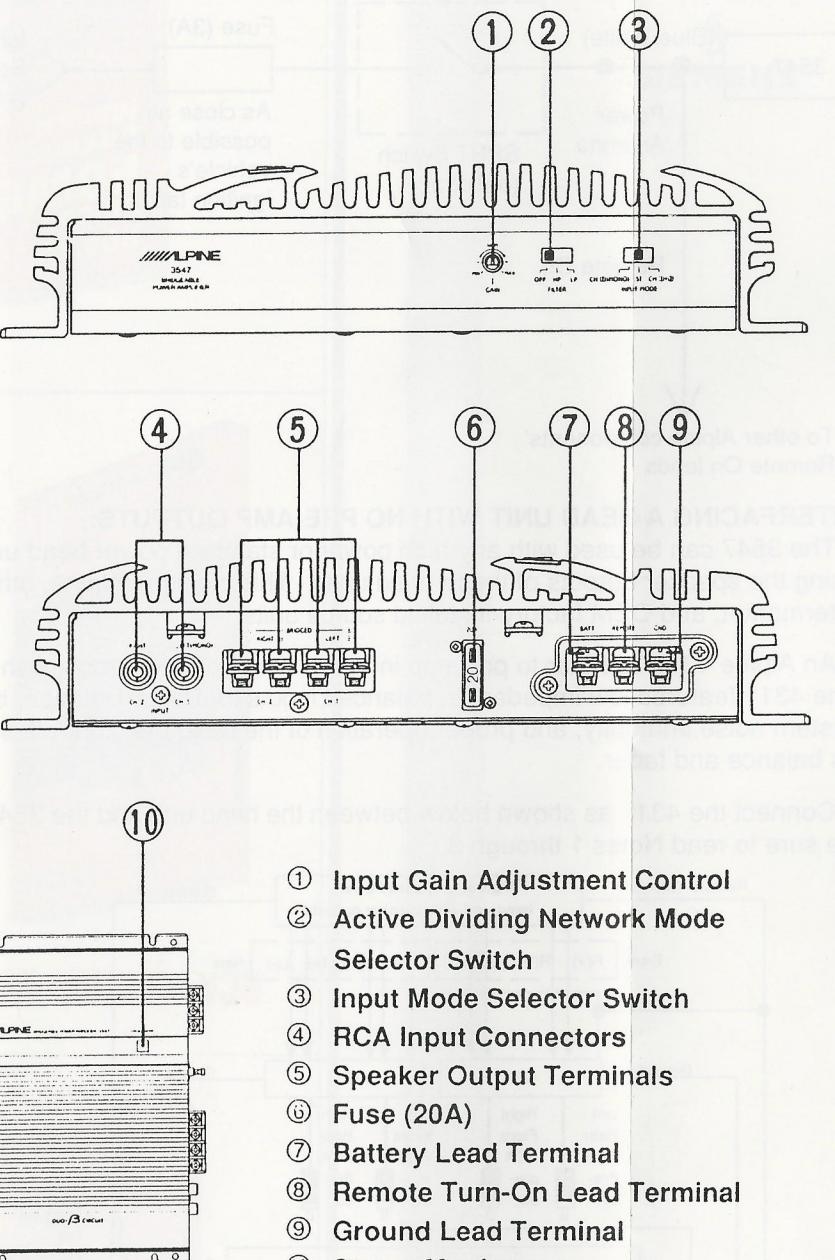
Prevents radio frequency interference (RFI) and immunity to system noises (such as alternator whine).

- STATUS MONITOR

This indicator illuminates in green when the amplifier is on and operational. This light will turn orange if any internal protection circuitry is activated.

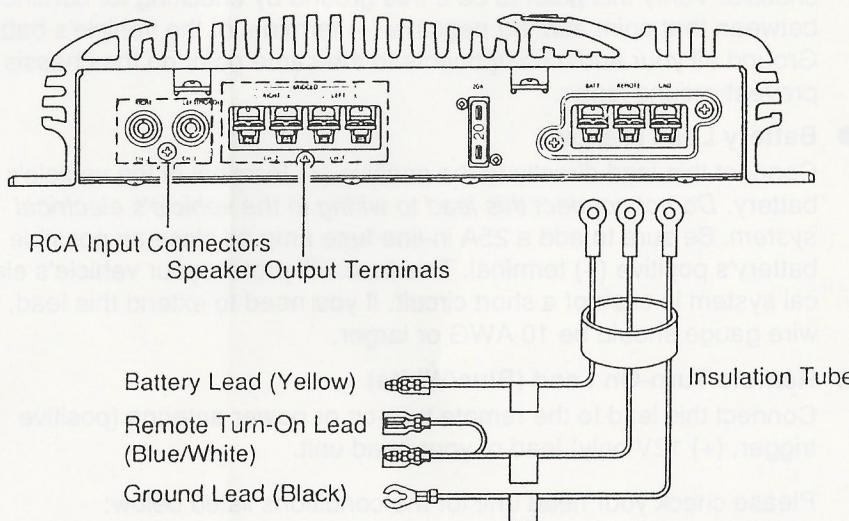
It can be used as a troubleshooting aide should installation problem develop.

SWITCHES AND TERMINALS



- ① Input Gain Adjustment Control
- ② Active Dividing Network Mode Selector Switch
- ③ Input Mode Selector Switch
- ④ RCA Input Connectors
- ⑤ Speaker Output Terminals
- ⑥ Fuse (20A)
- ⑦ Battery Lead Terminal
- ⑧ Remote Turn-On Lead Terminal
- ⑨ Ground Lead Terminal
- ⑩ Status Monitor

CONNECTIONS



Before making connections, be sure to turn the power off to all audio components. Insulation tubes for the speaker leads and the power supply leads are supplied with the 3547, route the speaker leads and the power supply leads separately through these tubes.

CAUTION:

Always keep the RCA inputs of the 3547 connected to a signal source while the amplifier is in operation.

- Speaker Output Terminals

The 3547 has a set of speaker outputs. Be sure to observe correct speaker output polarity and phasing. In the stereo mode, connect the right speaker output to the right speaker and the left to left. Connect the positive output to the positive speaker terminal and the negative to negative. In the bridged mode, connect the left positive to the positive terminal on the speaker and the right negative to the negative terminal of the speaker. Do not use the negative (-) speaker terminal commonly for the right and left speakers or connect them to the vehicle's chassis ground.

NOTE:

Do not connect speaker leads together or to chassis ground.

- RCA Input Connectors

Connect these connectors to the line out leads on your head unit using RCA extension cables (sold separately). Be sure to observe correct channel connections; Left to Left, Right to Right, Front to Front, and Rear to Rear.

CONNECTIONS

● Ground Lead (Black)

Connect this lead securely to a clean, bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between that point and the negative (-) terminal of the vehicle's battery. Ground all your audio components to the same point on the chassis to prevent ground loops.

● Battery Lead (Yellow)

Connect this lead directly to the positive (+) terminal of the vehicle's battery. *Do not connect this lead to wiring in the vehicle's electrical system.* Be sure to add a 25A in-line fuse amp as close as possible to the battery's positive (+) terminal. This fuse will protect your vehicle's electrical system in case of a short circuit. If you need to extend this lead, the wire gauge should be 10 AWG or larger.

● Remote Turn-On Lead (Blue/White)

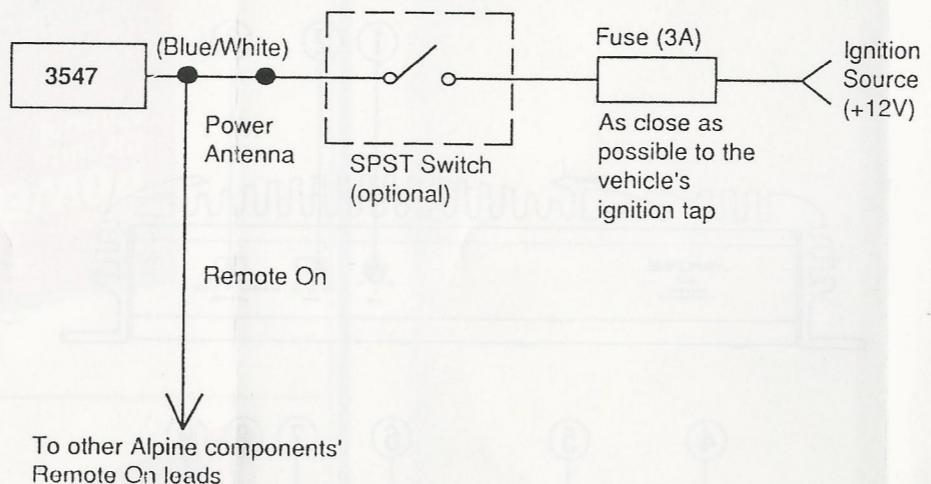
Connect this lead to the remote turn-on or power antenna (positive trigger, (+) 12V only) lead of your head unit.

Please check your head unit for the conditions listed below:

- The head unit does not have a remote turn-on or power antenna lead.
- The head unit's power antenna lead is activated only when the radio is on (turns off in the tape or CD Mode).
- The head unit's power antenna lead is logic level output (+) 5V, negative trigger (grounding type), or cannot sustain (+) 12V when connected to other equipment in addition to the vehicle's power antenna. If any of the above conditions exist, the remote turn-on lead of your 3547 must be connected to a switched power source (ignition) in the vehicle. Be sure to use a 3A fuse as close as possible to this ignition tap. Using this connection method, the 3547 will turn on and stay on as long as the ignition switch is on.

If this is objectionable, a SPST (Single Pole, Single Throw) switch, in addition to the 3A fuse mentioned above, may be installed in-line on the 3547 turn-on lead. This switch will then be used to turn on (and off) the 3547. Therefore, the switch should be mounted so that is accessible by the driver. Make sure the switch is turned off when the vehicle is not running. Otherwise, if the amplifier is left on for an extended period of time, the car's battery may be drained.

CONNECTIONS

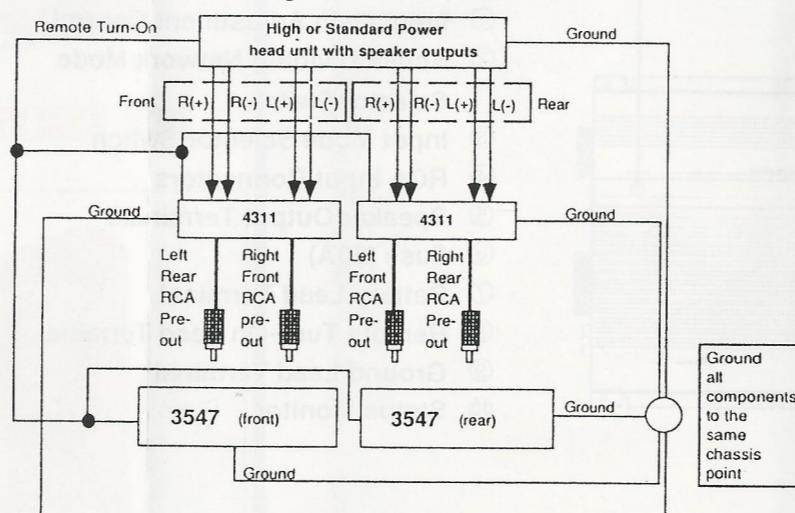


INTERFACING A HEAD UNIT WITH NO PRE-AMP OUTPUTS:

The 3547 can be used with any high power or standard power head unit by using the speaker outputs of these head units. This includes Alpine, other aftermarket, and OEM factory-installed source units.

An Alpine 4311 speaker to pre-amp interface is needed to accomplish this. The 4311 features low impedance, balanced inputs for better isolation, better system noise immunity, and proper operation of the head unit controls such as balance and fader.

Connect the 4311 as shown below between the head unit and the 3547. Be sure to read Notes 1 through 3.



CONNECTIONS

NOTE 1: Some head units' speaker outputs may have an inherent turn on or turn off pop noise. Although the 4311 will prevent additional system noise usually associated with large system upgrades of this type, it cannot improve upon the design of the signal source. If there is a pop noise present in the head unit, it will be amplified through the system and may be objectionable. In such a case, the solution is to upgrade to an Alpine head unit.

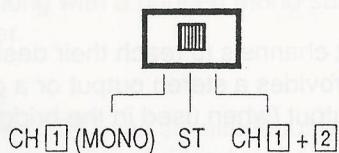
NOTE 2: The 4311 can be mounted near the amplifier or near the head unit. However, running long RCA cables may increase chances of encountering a system noise problem. Therefore, mounting the 4311 close to the amplifier is preferable.

NOTE 3: To avoid introducing system noises such as alternator whine, ground all amplifiers, signal processors, 4311's and the head unit to the same point on the chassis.

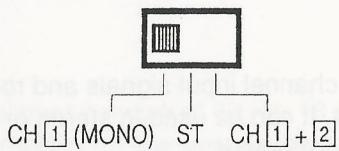
SWITCH SETTINGS

Input Mode Selector Switch

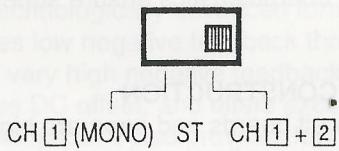
- a) Set to the "ST" position (center) when the two channels are used in stereo.



- b) Set to the "[1] (MONO)" position when the two channels are used for one channel of a stereo or bridged system.



- c) Set to the "[1] + [2]" position when the two channels are used for a subwoofer system which uses the right channel and left channel signals summed.



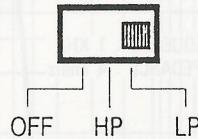
Input Gain Adjustment Control

After setting your head unit's volume control 1/4 of a turn down from the maximum output level, rotate the Input Gain Adjustment Control with a #0 flat blade screwdriver and adjust the input gain to the point where there is maximum volume with no distortion.

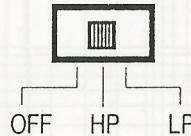
SWITCH SETTINGS

Active Dividing Network Mode Selector Switch

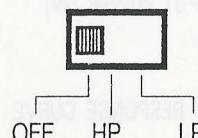
- a) Set to the "LP" position when the amplifier is used for the low-pass (subwoofer) system. The frequencies higher than 80 Hz will be cut (at a rate of 18 dB per octave).



- b) Set to the "HP" position when the 3547 is used for the high-pass (tweeter/midrange) system. The frequencies lower than 80 Hz will be cut (at a rate of 18 dB per octave).



- c) Set to the "OFF" position when the 3547 is used for the regular stereo system with full-range speakers. The full bandwidth will be output without cutting the high or low frequencies.



Status Monitor

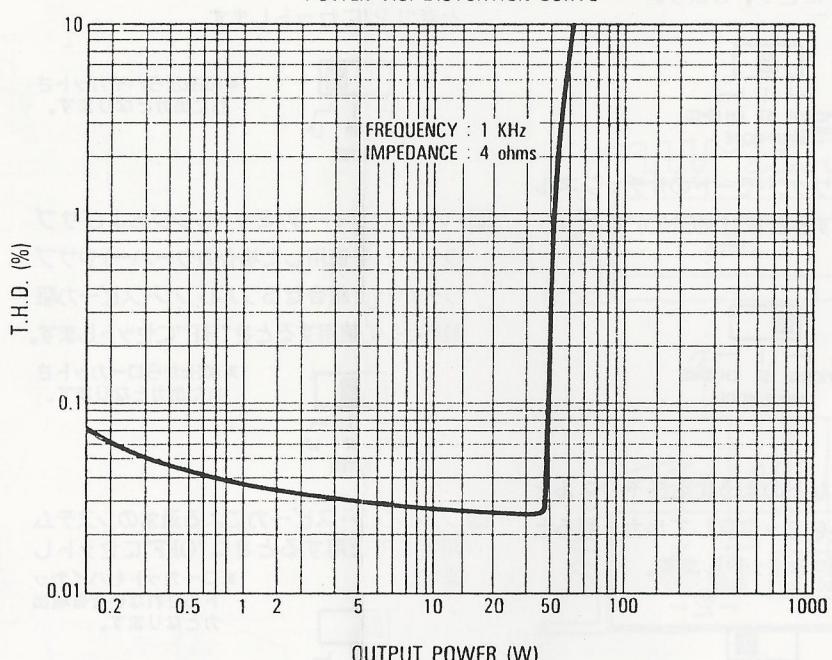
This indicator lights in green when the power is on. The 3547 has built-in protection circuitry. If, for some reason, this protection circuit is activated, the indicator turns orange. If this happens, turn the system off, find the cause of the problem and remedy the situation. This includes checking all your connections and wiring. If the indicator remains orange when the system is turned on, consult your authorized Alpine dealer.

NOTE:

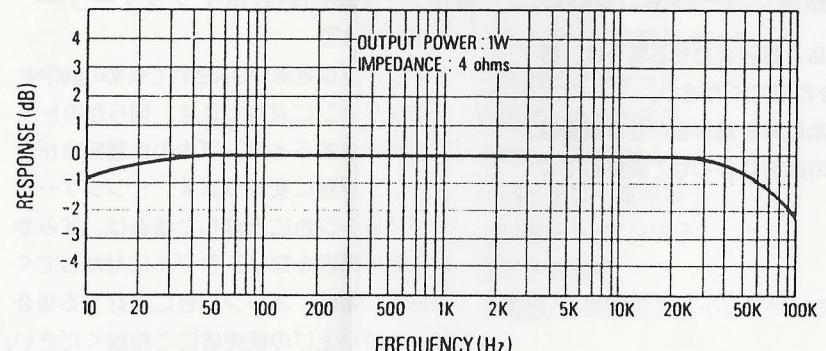
The indicator will illuminate in orange for a few seconds when the power is turned on as the turn on muting circuit is activated. This is normal.

CHARACTERISTIC CURVES

POWER V.S. DISTORTION CURVE



FREQUENCY RESPONSE CURVE

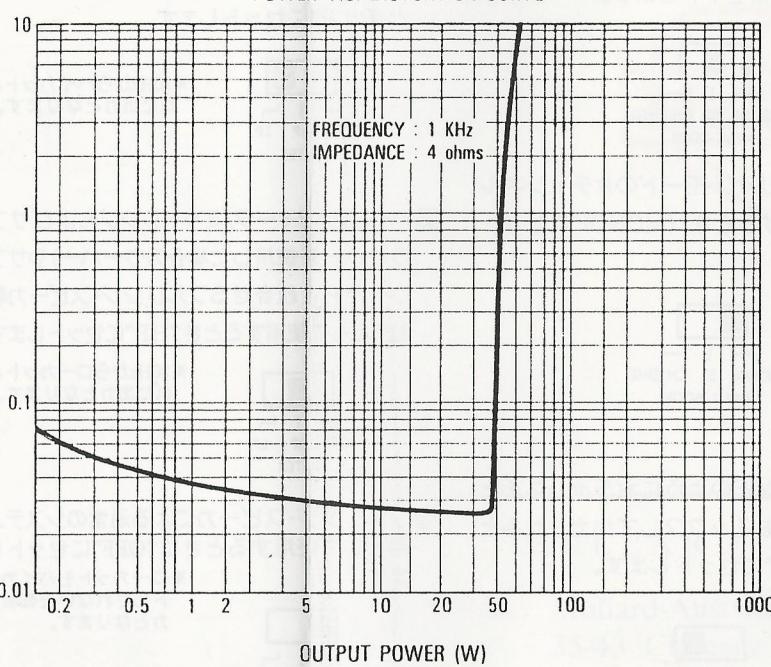


CHARACTERISTIC CURVES

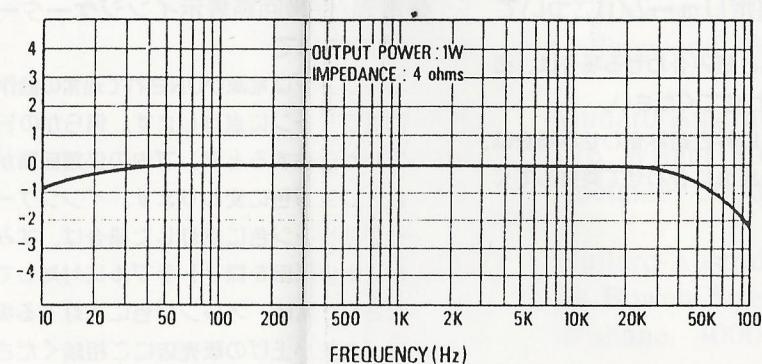
故障かな……？と思う前に

操作ミスや勘違いで故障と間違えることがあります。修理を依頼する前にもう一度チェックしてみましょう。案外、ちょっとしたお手入れで直ることが多いものです。

POWER V.S. DISTORTION CURVE



FREQUENCY RESPONSE CURVE



特長

●アクティブ・ディバイディング・ネットワーク内蔵

18dB/Oct.スロープの本格的アクティブ・ディバイディング・ネットワークを内蔵。ローパス(サブウーハー)やハイパス(ツイータ/ミッドレンジ)出力が簡単に取り出すことができるマルチ・システムやサブウーハー・システムなど高度なシステムを構成するのに便利です。

●DUO-β(デュオ・ベータ)回路

中・高域用の適量NFB回路と低域用のDCサーキットの2つを巧みに組み合わせて全帯域にわたるバランスのとれた再生を実現しました。

●STARサーキット採用

電子の流れの停滞をなくし、スムーズな流れを実現しながら0電位を厳密に取るアルバイン独自のSTARサーキットを採用しました。この回路により、SN比と音の再現性を向上させました。

●入力モード切りかえスイッチ

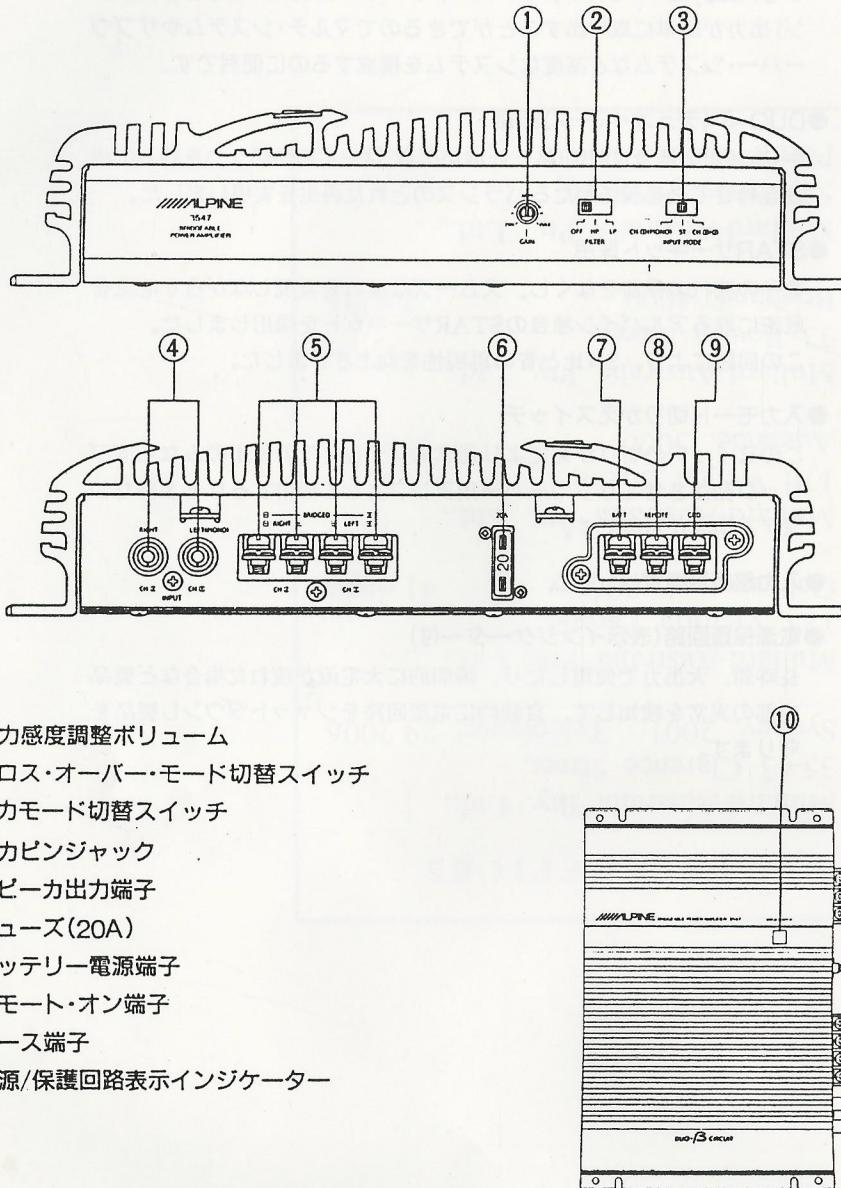
このスイッチの切りかえにより通常のステレオでの使用のみならずブリッジ動作させてサブウーハー用アンプとして使用するなど多彩なシステム構成が可能です。

●入力感度調整ボリューム

●電源保護回路(表示インジケーター付)

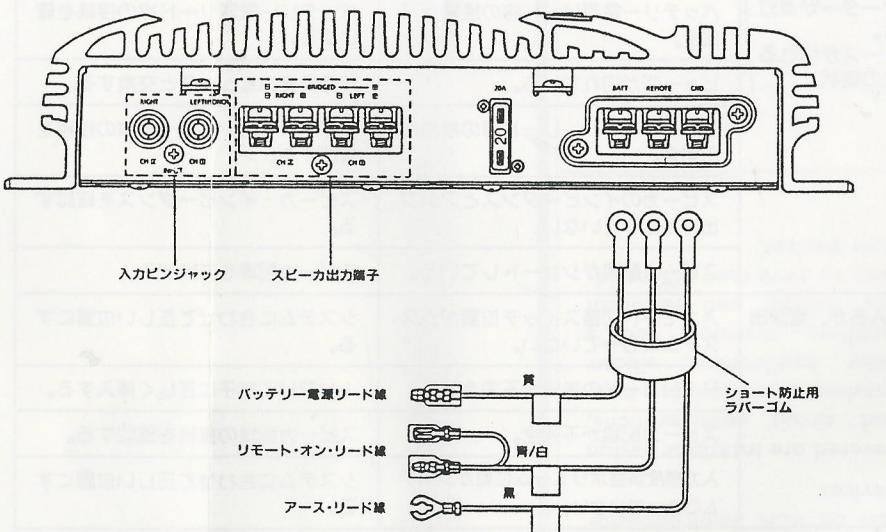
長時間、大出力で使用したり、瞬間に大電流が流れた場合など製品内部の異常を検知して、自動的に電源回路をシャットダウンし製品を守ります。

各部の名称



接続

本機はパワー・アンプですので音量、音質等はすべて、カセット・テッキやグラフィック・イコライザ等の接続ユニット側で調整をおこないます。(調整方法は接続ユニットの取扱説明書を参照してください。)下記に従って各々のリード線を確実に接続してご使用ください。他社製品および純正製品と組み合わせたとき、不具合が発生する場合があります。このような接続については、事前にお買い上げ店またはアルパイン・サービス・インフォメーション・センターにご相談ください。

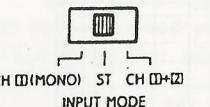


- スピーカ出力リード線……本機の出力に合ったスピーカに+、-、L、R、を間違えないように接続します。スピーカ出力リード線の-端子は絶対に左・右共通使用や自動車のシャーシー・アースに落とすことは避けてください。
- アース・リード線……車のボディーの金属部にビス止めします。アースが不完全ですと本体が動作しなかったり、雑音の原因ともなります。
- バッテリー電源リード線……別売の電源コードを使用して、車のバッテリーの+端子へ接続します。
- リモート・オン・リード線……接続ユニットのリモート・オン・リード線に接続します。

操作方法

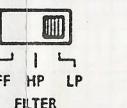
●入力モード切替スイッチ③について

- ①ステレオ 2 チャンネル・モードとして使用するとき“ST”にセットします。



●クロス・オーバー・モード切替スイッチ②について

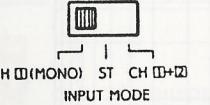
- ①ローパス(サブウーハー)用として使用するとき“LP”にセットします。



*80Hzからハイカットされた出力となります

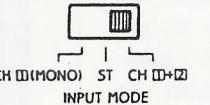
②ステレオやブリッジ・モードの片チャンネル

- 用として使用するとき“(MONO)”にセットします。



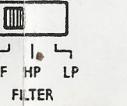
*80Hzからローカットされた出力となります

③サブウーハーなどのように右チャンネルと左チャンネルをミックスして出力させるととき“CH①+②”にセットします。



*ローカットもハイカットもされない全帯域力となります

③フルレンジ・スピーカによる通常のシステムとして使用するときは“OFF”にセットします。



*ローカットもハイカットもされない全帯域力となります

●入力感度調整ボリューム①について

- アルパイン製品と組み合わせる場合は、必ず“NOM”に合わせてください。
アルパイン製品以外と組み合わせる場合は、接続ユニットの出力に合わせて調整してください。

●電源/保護回路表示インジケーター⑩について

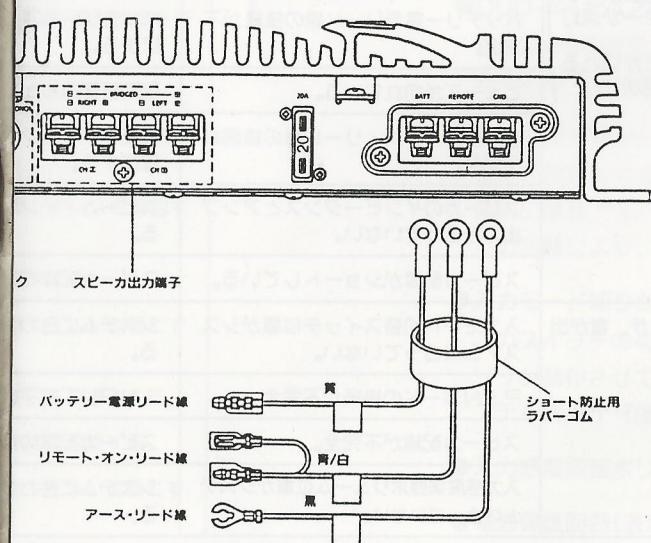
- このランプは電源がONされて通常の動作にはグリーンに点灯します。何らかのトラブルが発生するとアンプ内の保護回路がオレンジ色に変わります。インジケーターがオレンジ色に点灯した場合は、すみかにその原因を探りトラブルに対処してください。常時、オレンジ色に点灯する場合は、お買い上げの販売店にご相談ください。

ご注意

電源をONした直後、オレンジ色に点灯するのは保護回路が働いているためであり異常ではありません。

操作方法

の音量、音質等はすべて、カセット・テッキやグラフィック・イコラ
則で調整をおこないます。(調整方法は接続ユニットの取扱説明書を参
照して各々のリード線を確実に接続してご使用ください。
と組み合わせたとき、不具合が発生する場合があります。このような
お買い上げ店またはアルバイン・サービス・インフォメーション・センタ



のラバーコムです。各々のリード線を
リード線に通してから接続した後、
端子に覆いかぶせてください。

本機の出力に合ったスピーカに \oplus 、 \ominus 、L、R、を間違えないよう
出力リード線の \ominus 端子は絶対に左・右共通使用や自動車のシャーシー。
避けてください。

ボディーの金属部にビス止めします。

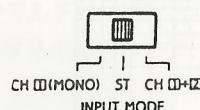
本体が動作しなかったり、雑音の原因ともなります。

別売の電源コードを使用して、車のバッテリーの \oplus 端子へ接続

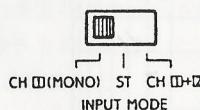
接続ユニットのリモート・オン・リード線に接続します。

●入力モード切替スイッチ③について

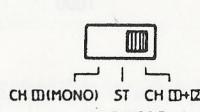
- ①ステレオ 2 チャンネル・モードとして使用
するとき“ST”にセットします。



- ②ステレオやプリッジ・モードの片チャンネル
用として使用するとき“(MONO)”にセット
します。



- ③サブウーハーなどのように右チャンネルと
左チャンネルをミックスして出力させると
き“CH①+②”にセットします。

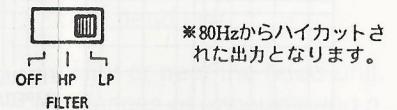


●入力感度調整ボリューム①について

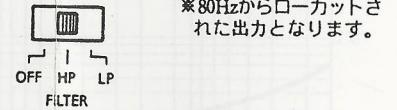
アルバイン製品と組み合わせる場合は、必ず“NOM”に合わせてください。
アルバイン製品以外と組み合わせる場合は、接続ユニットの出力に合わせて調整してく
ださい。

●クロス・オーバー・モード切替スイッチ ②について

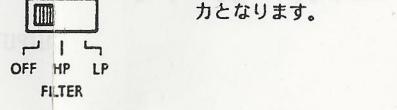
- ①ローパス(サブウーハー)用として使用する
とき“LP”にセットします。



- ②ハイパス(ツイータ/ミッドレンジおよびサブ
ウーハーを使用した場合のウーハー)やサブ
ウーハーと組みせるフルレンジ・スピーカ駆
動用として使用するとき“HP”にセットします。



- ③フルレンジ・スピーカによる通常のシステム
用として使用するときは“OFF”にセットし
ます。



●電源/保護回路表示インジケーター ⑩について

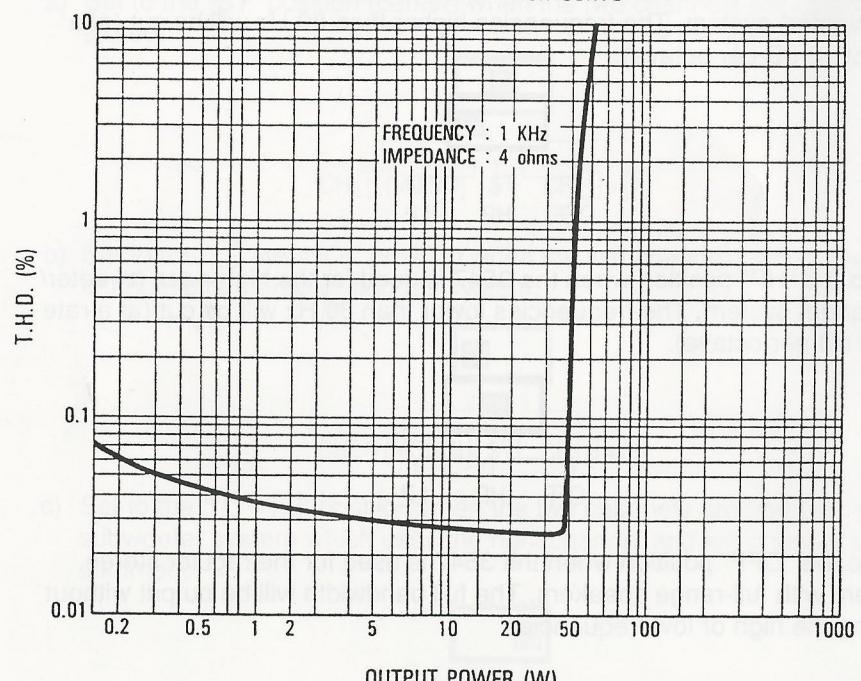
このランプは電源がONされて通常の動作中
にはグリーンに点灯します。何らかのトラ
ブルが発生するとアンプ内の保護回路が働
きオレンジ色に変わります。インジケーター
がオレンジ色に点灯した場合は、すみや
かにその原因を探りトラブルに対処してく
ださい。常時、オレンジ色に点灯する場合
は、お買い上げの販売店にご相談ください。

ご注意

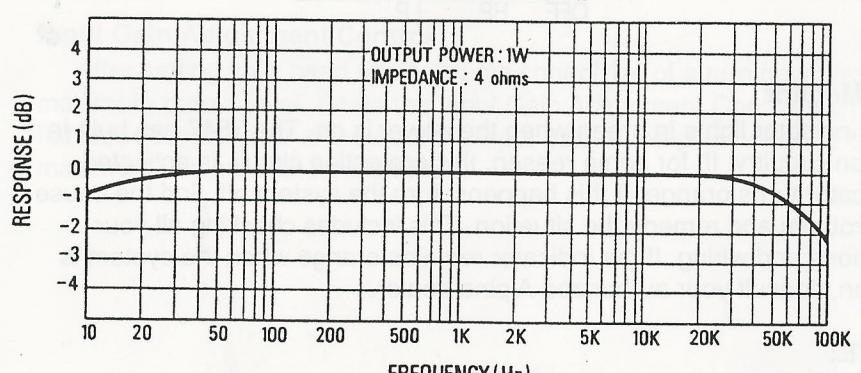
電源をONした直後、オレンジ色に点灯す
るのは保護回路が働いているためあり
異常ではありません。

特性カーブ

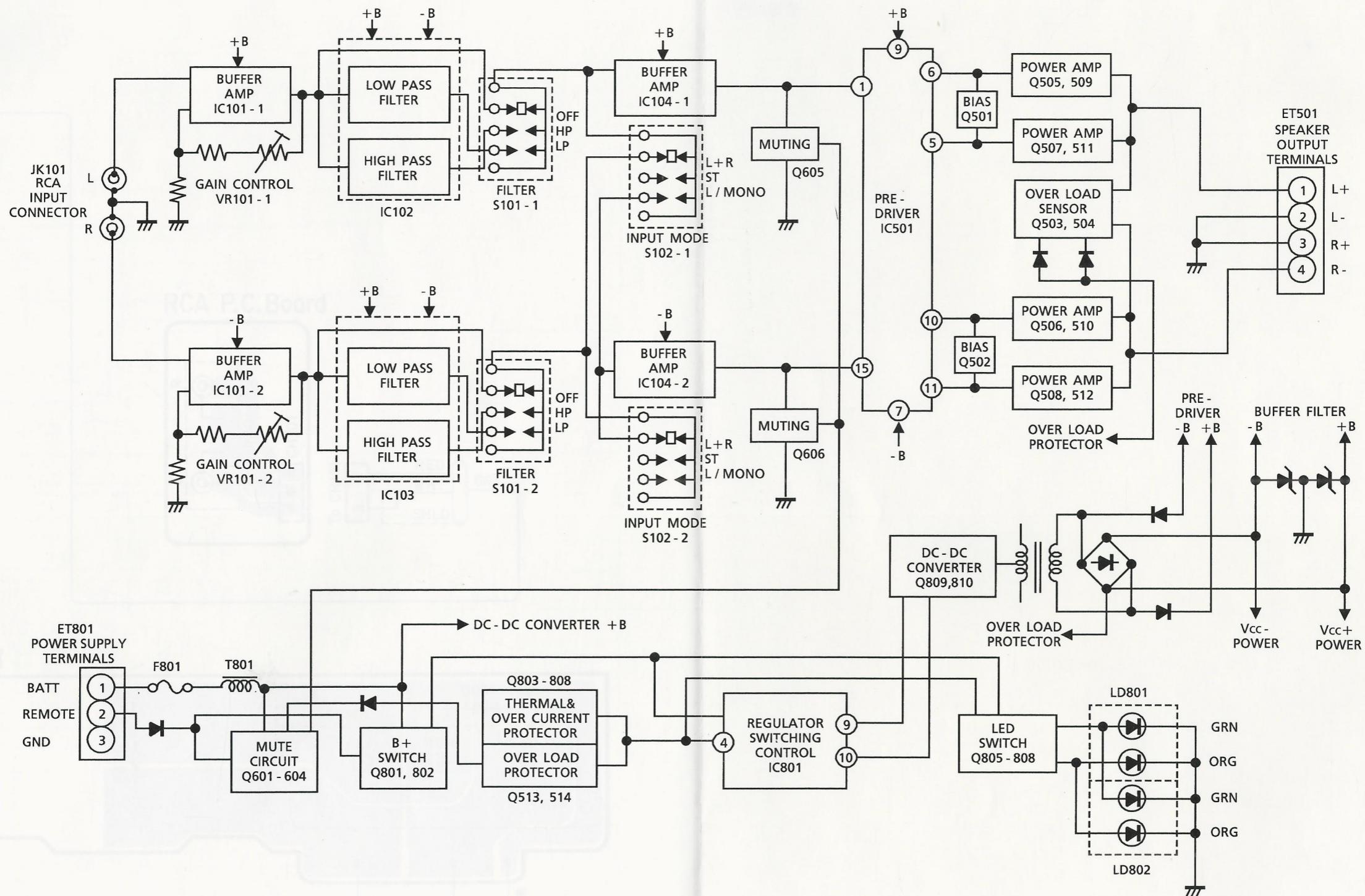
POWER V.S. DISTORTION CURVE



FREQUENCY RESPONSE CURVE

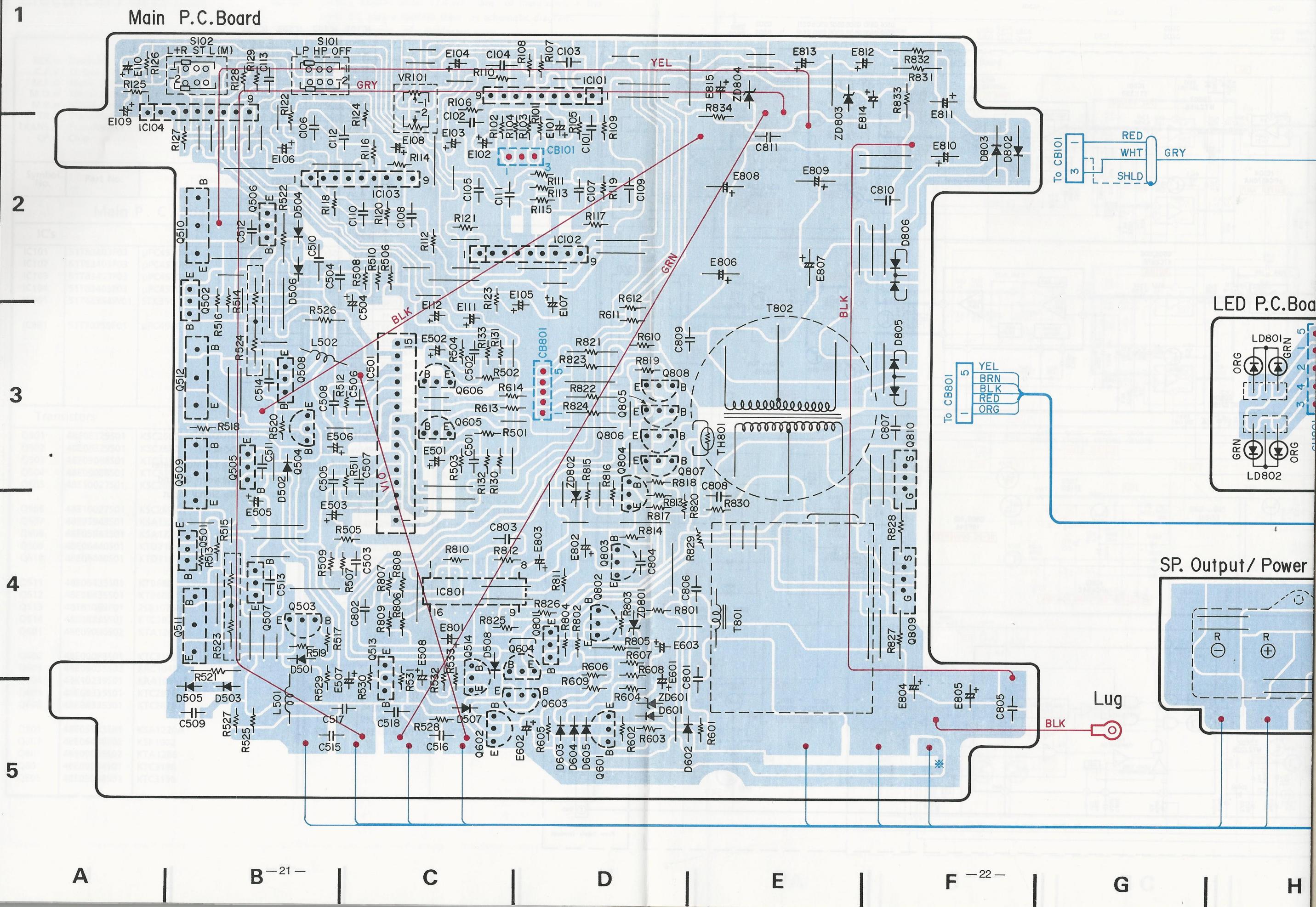


Block Diagram



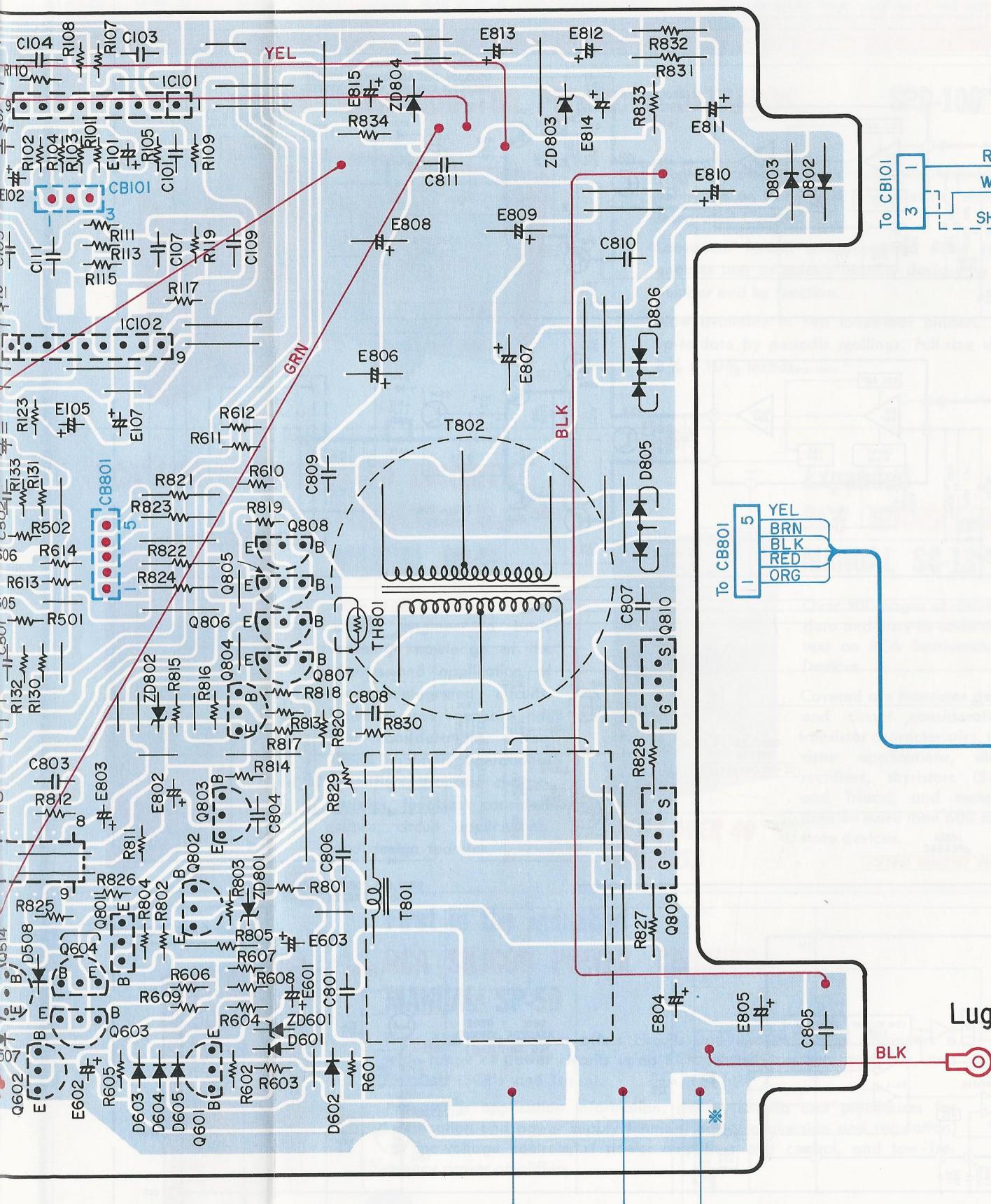
Parts Layout on P.C. Boards and Wiring Diagram

All P. C. Boards viewed from soldered side.

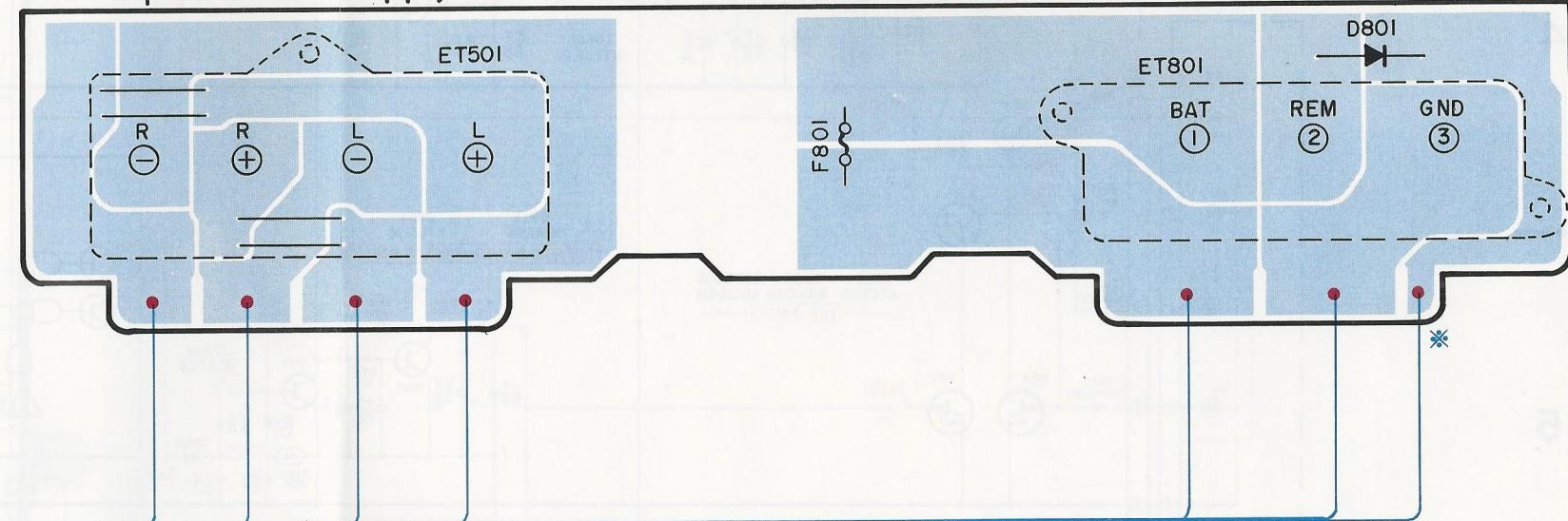


Diagram

All P. C. Boards viewed from soldered side



SP. Output/ Power Supply P.C. Board



D

E

F -22-

1

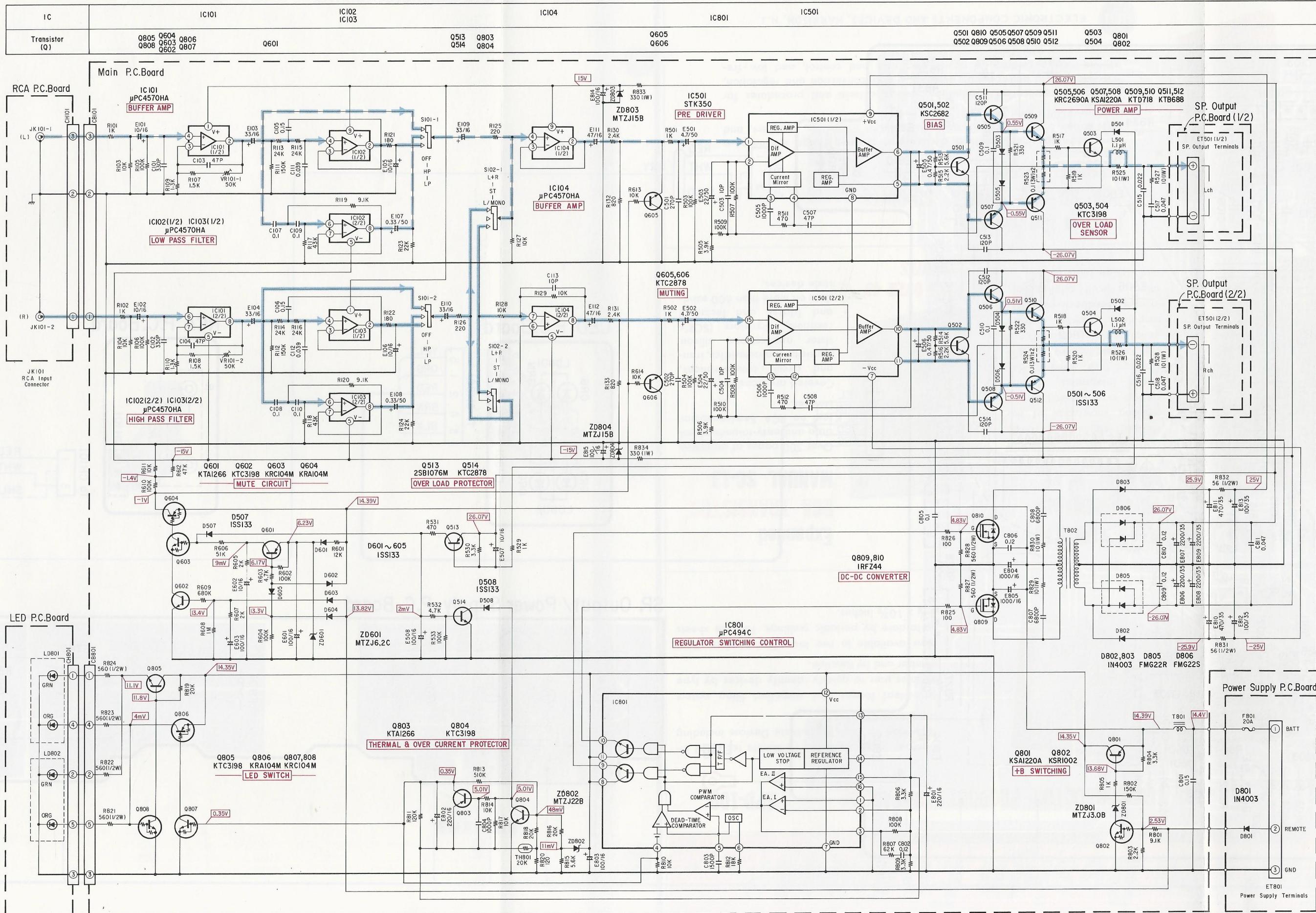
J -23-

K

Schematic Diagram

NOTE:

- All resistance values are in ohms. K=1,000 M=1,000,000
- All capacitance values are in microfarads. P=1/1,000,000



IC101 IC102 IC103 IC104

1	15V	15V	15V	15V
2	56.6mV	13.8mV	13.4mV	0.84mV
3	6.9mV	13.8mV	13.4mV	0.84mV
4	6.8mV	13.7mV	12.7mV	0.67mV
5	-15V	-15V	-15V	-15V
6	6.7mV	2.9mV	2.9mV	0V
7	6.9mV	3.3mV	3.5mV	0.3mV
8	5.6mV	3.3mV	3.5mV	-0.3mV

IC501

1	-0.24V
2	-0.24V
3	24.5V
4	24.2V
5	-1.1V
6	1.1V
7	-25V
8	0V
9	25V
10	1.1V
11	-1.1V
12	24.2V
13	24.5V
14	-0.24V
15	-0.24V

IC801

1	0V
2	2.45V
3	89mV
4	0.35V
5	1.67V
6	3.76V
7	0V
8	14.35V
9	5.69V
10	5.69V
11	14.35V
12	14.35V
13	5.02V
14	5.02V
15	5.02V
16	0V

<Voltage Measuring Conditions>

1. Power Supply : DC14.4V
2. Measuring Meter : Digital Multimeter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input

Electrical Parts List

Resistor : Carbon resistors under 1 / 4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μF =microfarads, pF =picofarads

Abbreviations

RES.=	Resistor	CAP.=	Capacitor
C.F.=	Carbon Film	ELY.=	Electrolytic
M.F.=	Metal Film	CER.=	Ceramic
M.O.=	Metal Oxide Film	MYL.=	Mylar
M.P.=	Metal Plate	TAN.=	Tantalum
TR.=	Transistor	POLY.=	Polystyrol
TRANS.=	Transformer	PP.=	Polypropylene
CP.=	Chip	PLT.=	Polyethylene
		PF.=	Polyester Film

Symbol No.	Part No.	Description
Q806	48E10239S01	KRA104M
Q807	48E09035S02	KRC104M
Q808	48E09035S02	KRC104M
Q809	48E10009S01	FET, IRFZ44
Q810	48E10009S01	FET, IRFZ44

Main P . C . Board

IC's

IC101	51T83403F03	$\mu\text{PC}4570\text{HA}$
IC102	51T83403F03	$\mu\text{PC}4570\text{HA}$
IC103	51T83403F03	$\mu\text{PC}4570\text{HA}$
IC104	51T83403F03	$\mu\text{PC}4570\text{HA}$
IC501	51T45364W01	STK350
IC801	51T70759F01	$\mu\text{PC}494\text{C}$

Diodes

D501	48T68828F01	1SS133
D502	48T68828F01	1SS133
D503	48T68828F01	1SS133
D504	48T68828F01	1SS133
D505	48T68828F01	1SS133
D506	48T68828F01	1SS133
D507	48T68828F01	1SS133
D508	48T68828F01	1SS133
D601	48T68828F01	1SS133
D602	48T68828F01	1SS133
D603	48T68828F01	1SS133
D604	48T68828F01	1SS133
D605	48T68828F01	1SS133
D802	48S40477U01	1N4003
D803	48S40477U01	1N4003
D805	48T80987F02	FMG22R
D806	48T80987F01	FMG22S
ZD601	48T26033W31	Zener, MTZJ6.2V
ZD801	48T26033W10	Zener, MTZJ3.0B
ZD802	48T26033W71	Zener, MTZJ22B
ZD803	48E08331S01	Zener, MTZJ15B
ZD804	48E08331S01	Zener, MTZJ15B

Coils / Transformer

L501	24E06423S02	1.1 μH
L502	24E06423S02	1.1 μH
T801	25E08337S01	TRANS., Choke
T802	25E10164S01	TRANS., Power

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Thermistor / Switches					
TH801	48E06441S01	20K ohm	E508	23E10238S01	ELY., 100µF / 16V
S101	40T94668F01	Switch, SSSF12 (FILTER)	C509	08E07631S08	MYL., 0.1µF
S102	40T94668F01	Switch, SSSF12 (INPUT MODE)	C510	08E07631S14	MYL, 0.1µF
			C511	08T74293F38	CER., 120pF
			C512	08T74293F38	CER., 120pF
			C513	08T74293F38	CER., 120pF
			C514	08T74293F38	CER., 120pF
			C515	08E07631S10	MYL., 0.022µF
			C516	08E07631S10	MYL., 0.022µF
			C517	08E07631S18	MYL., 0.047µF
			C518	08E07631S18	MYL., 0.047µF
			E601	23E10238S01	ELY., 100µF / 16V
			E602	23E08383S08	ELY., 10µF / 16V
			E603	23E10238S01	ELY., 100µF / 16V
			C801	08E07631S11	MYL., 0.15µF
			E801	23E08384S06	ELY., 220µF / 16V
			C802	08E07631S19	MYL., 0.12µF
			E802	23E08384S06	ELY., 220µF / 16V
			C803	08E07631S15	MYL., 1500pF
			E803	23E10238S01	ELY., 100µF / 16V
			C804	21E06808S03	CER., 1000pF
			E804	23E08565S01	ELY., 1000µF / 16V
			C805	08E07631S08	MYL., 0.1µF
			E805	23E08565S01	ELY., 1000µF / 16V
			C806	08E07631S19	MYL., 0.12µF
			E806	23E09551S02	ELY., 2200µF / 35V
			C807	08E07631S16	MYL., 6800pF
			E807	23E09551S02	ELY., 2200µF / 35V
			C808	08E07631S16	MYL., 6800pF
			E808	23E09551S02	ELY., 2200µF / 35V
			C809	08E07631S19	MYL., 0.12µF
			E809	23E09551S02	ELY., 2200µF / 35V
			C810	08E07631S19	MYL., 0.12µF
			E810	23E08565S06	ELY., 470µF / 35V
			C811	08E07631S18	MYL., 0.047µF
			E811	23E08565S06	ELY., 470µF / 35V
			E812	23E08565S05	ELY., 100µF / 35V
			E813	23E08565S05	ELY., 100µF / 35V
			E814	23E10238S01	ELY., 100µF / 16V
			E815	23E10238S01	ELY., 100µF / 16V
E503	23E08383S12	ELY., 22µF / 50V			
C504	08E06289S02	CER., 10pF			
E504	23E08383S07	ELY., 22µF / 50V			
C505	21E06808S03	CER., 1000pF			
E505	23E08383S10	ELY., 0.47µF / 50V			
C506	21E06808S03	CER., 1000pF			
E506	23E08383S10	ELY., 0.47µF / 50V			
C507	21E06806S01	CER., 47pF			
E507	23E08383S08	ELY., 10µF / 16V			
C508	21E06806S01	CER., 47pF			

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Resistors (All resistors are chip 1/10W ± 5% unless otherwise noted.)					
R523	06E06810S02	Cement, 0.1ohm 3W×2			
R524	06E06810S02	Cement, 0.1ohm 3W×2			
R525	06E08324S01	M.O., 10 ohm 1W			
R526	06E08324S01	M.O., 10 ohm 1W			
R527	06E08324S01	M.O., 10 ohm 1W			
R528	06E08324S01	M.O., 10 ohm 1W			
R821	06E09412S05	M.F., 560 ohm 1/2W			
R822	06E09412S05	M.F., 560 ohm 1/2W			
R823	06E09412S05	M.F., 560 ohm 1/2W			
R824	06E09412S05	M.F., 560 ohm 1/2W			
R827	06E09412S05	M.F., 560 ohm 1/2W			
R828	06E09412S05	M.F., 560 ohm 1/2W			
R829	06E08324S01	M.O., 10 ohm 1W			
R830	06E08324S01	M.O., 10 ohm 1W			
R831	06E09412S04	M.F., 56 ohm 1/2W			
R832	06E09412S04	M.F., 56 ohm 1/2W			
R833	06E08324S02	M.O., 330 ohm 1W			
R834	06E08324S02	M.O., 330 ohm 1W			
VR101	18T45314W01	Volume, 50K (GAIN CONTROL)			
Miscellaneous					
D801	48S40477U01	Diode, 1N4003			
ET501	29T45520W01	Speaker Output Terminals (4P)			
ET801	29T94650F01	Power Supply Terminals (3P)			
F801	65S58596F06	Fuse, Auto 20A (For Battery Line)			
JK101	09T70753F10	RCA Input Connectors (2P)			
LD801	48T72180F01	LED, AABG4307K (GRN / ORG)			
LD802	48T72180F01	LED, AABG4307K (GRN / ORG)			

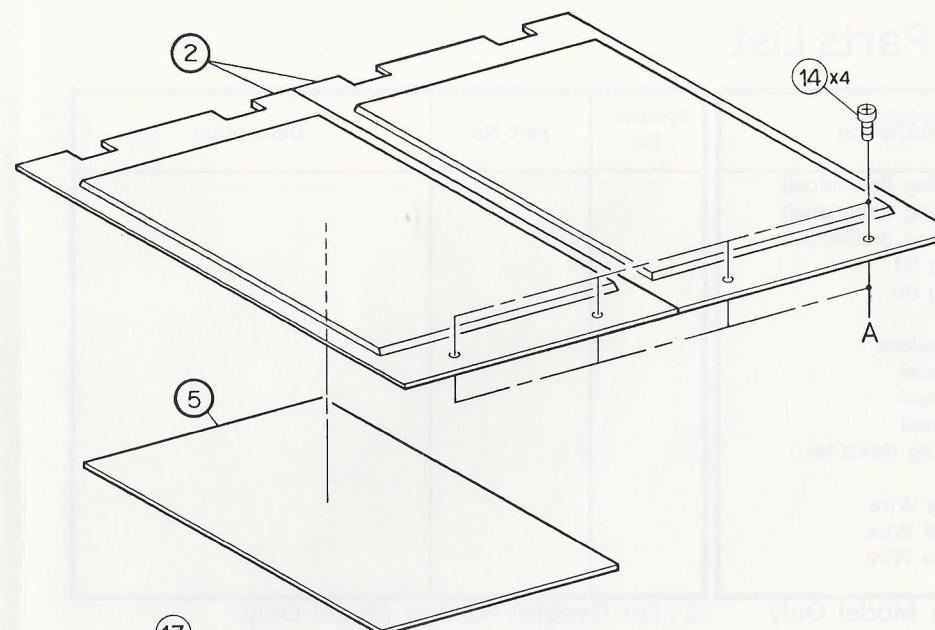
Cabinet Assembly Parts List

Note : The parts without parts list are not supplied.

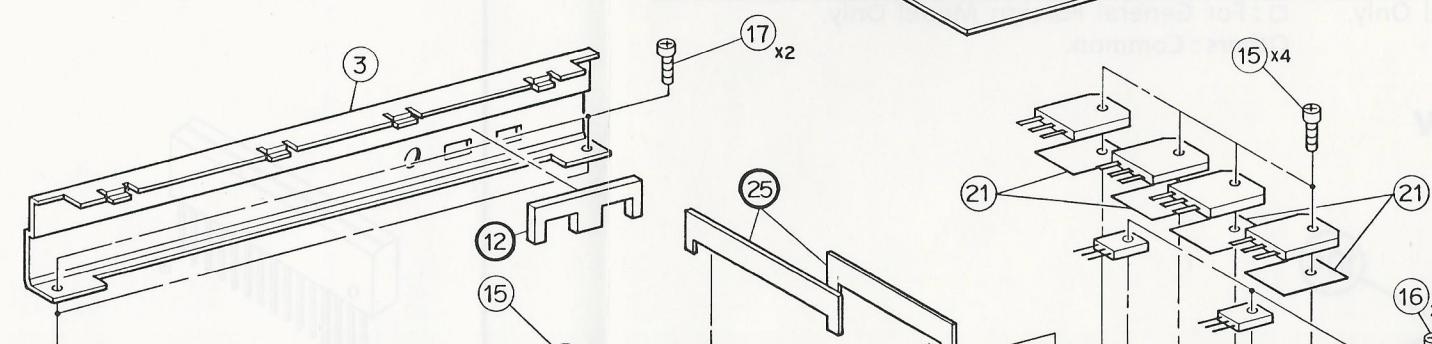
Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
3	2-D	27E10329S01	Chassis, Front				
4	4-G	27E10330S01	Chassis, Rear				
6	4-B	14E10331S01	Insulator, Sheet				
8	4-D	07E10333S01	Support, P.C.Board				
13	4-C	03E10240S01	Screw, Tpg.-Tpt. (M3×8)				
14		03E09417S05	Screw, Mch.-Tpt. (M2.6×5)				
15		03E09417S06	Screw, Tpg.-Tpt. (M3×11)				
16		03E09417S07	Screw, Tpg.-Tpt. (M3×7)				
17		03E09417S08	Screw, Tpg.-Tpt. (M3×5)				
18		03E09416S10	Screw, Tpg.-Tpt. (M3×8)				
19	5-G	03E09416S11	Screw, Tpg.-Tpt. (M2×6)				
20	5-F	03E09417S09	Screw, Tpg.-Tpt. (M3×5)				
21		14E10332S01	Insulator, Sheet				
23	4-G	01E10234S01	Assy., Shield Wire (3P)				
24	5-F	01E10235S01	Assy., Lug Wire				
29	4-D	36A13426W01	Lens, LED				
30	4-F	09T70751F01	Holder, Auto Fuse (1P)				

Exploded View (Cabinet)

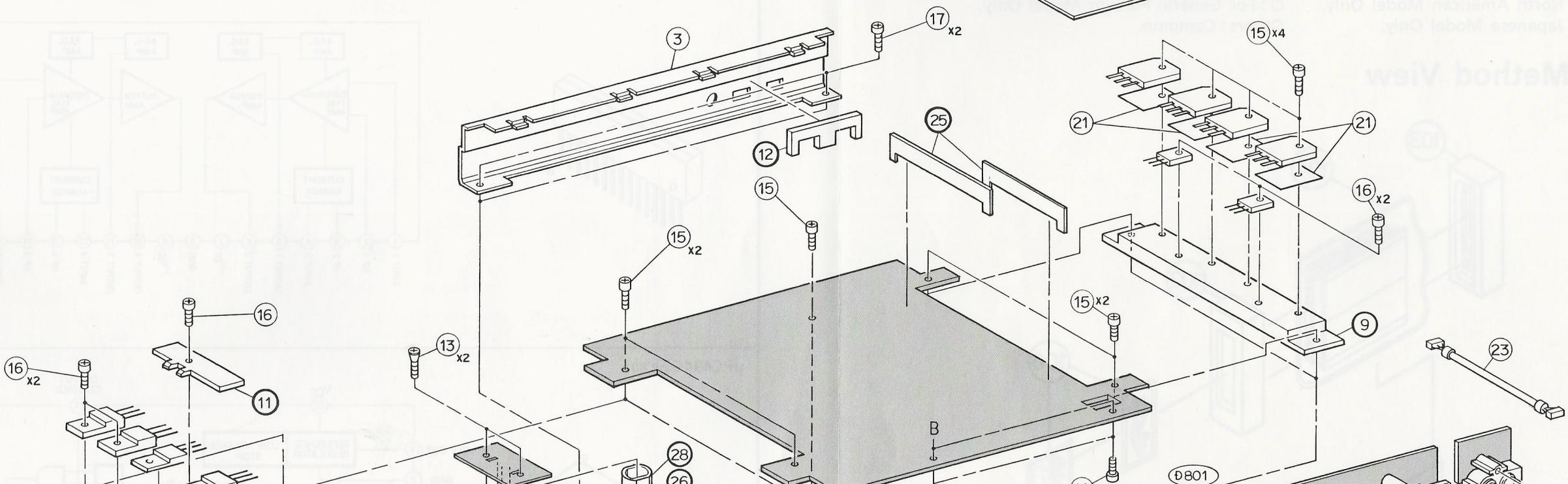
1



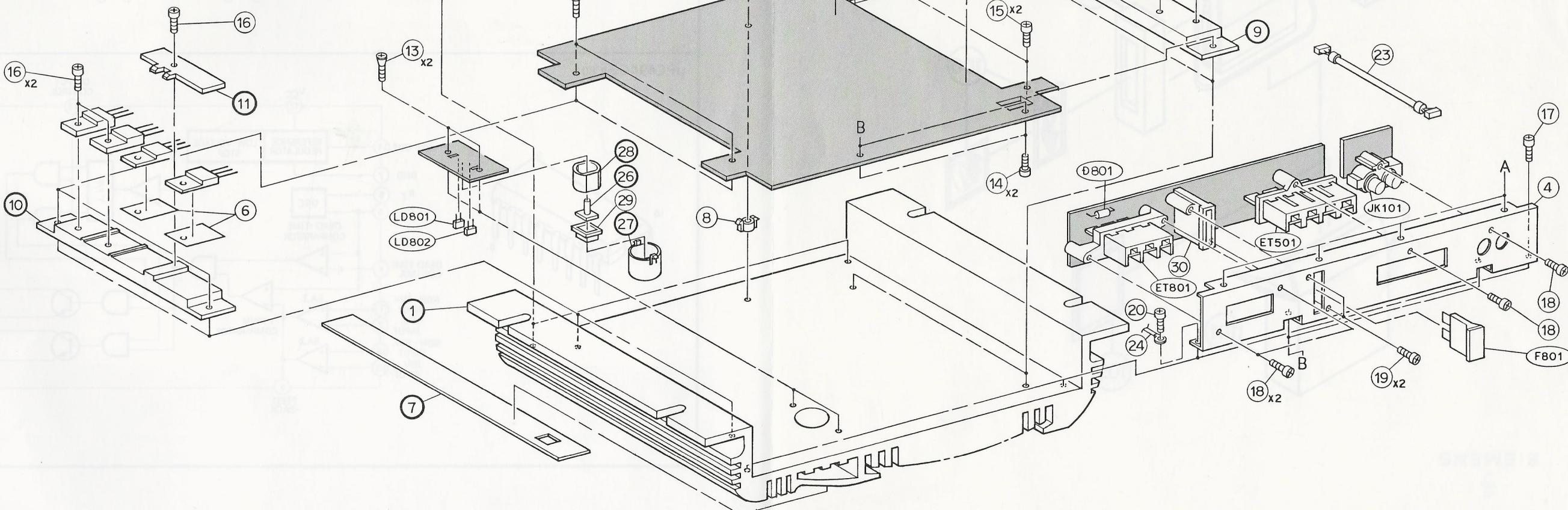
2



3



4



5

A

B-31-

C

D

E

F-32-

G

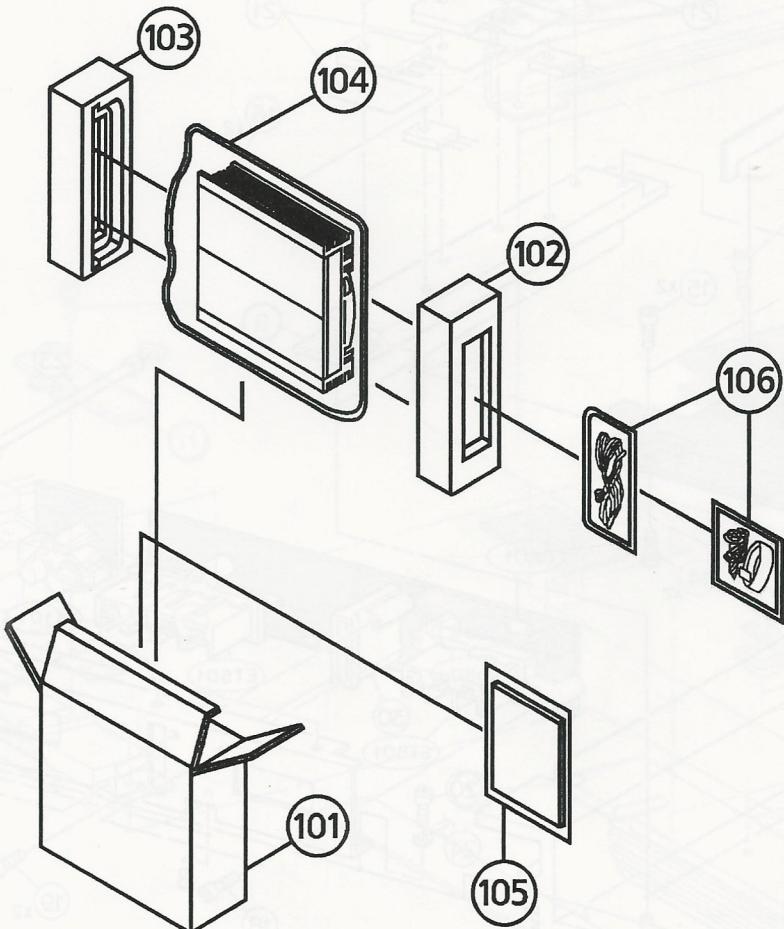
Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ 101	56S41054W12	Carton, Packing (Individual)			
□ 101	56S41054W17	Carton, Packing (Individual)			
△ 101	56S41054W18	Carton, Packing (Individual)			
102	56E10241S01	Tray, Packing (L)			
103	56E10241S02	Tray, Packing (R)			
104	56E10242S01	Sack, Polyethylene			
○ 105	68P40151W62	Owner's Manual			
□ 105	68P40151W66	Owner's Manual			
△ 105	68P40151W65	Owner's Manual			
106 - 1	03E09554503	Screw, Tapping (M4×14)			
106 - 2	01E10334S01	Assy., Battery Wire			
106 - 3	01E10335S01	Assy., Ground Wire			
106 - 4	01E10336S01	Assy., Remote Wire			

Notes : ○ : For North American Model Only,
 △ : For Japanese Model Only,

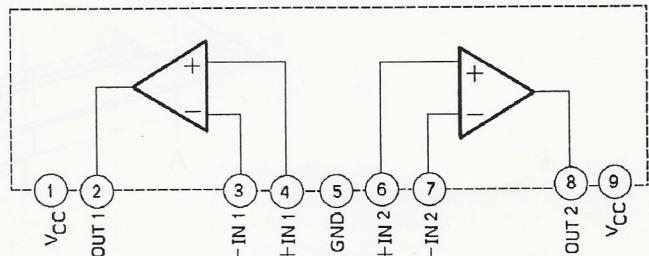
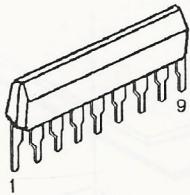
□ : For General Foreign Model Only,
 Others : Common.

Packing Method View

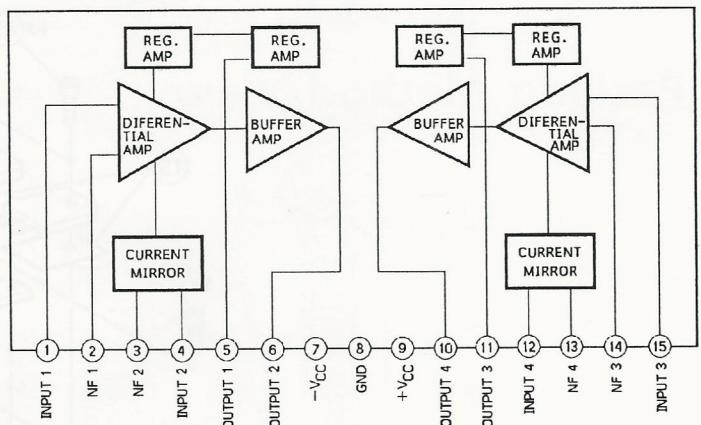
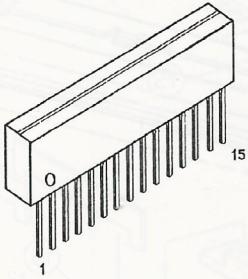


Semi-Conductor Lead Identifications

μ PC4570HA : IC101 - 104



STK350 : IC501



μ PC494C : IC801

