SoundTech™

*Total Systems Technology*

# PL1000
## QUAD POWER AMPLIFIER
AND
# PL500
## STEREO POWER AMPLIFIER
OPERATING MANUAL

# PL1000 QUAD AND PL500 STEREO POWER AMPLIFIERS

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## I INTRODUCTION

The SoundTech PL1000 and PL500 are high quality power amplifiers for professional sound reinforcement and installation use. The PL1000 is a quad or four channel amplifier which also has the capability of being used as a high power stereo amplifier. The PL500 is a stereo amplifier that can also be used for high level monophonic performance by setting the rear panel switch to the bridge position.

The PL1000 and PL500 feature massive heatsinks along with forced air cooling as standard equipment. In addition, both models feature custom, integrated rack handles and extruded front panels with a full compliment of LED's to monitor functions and performance conditions.

While providing powerful, accurate and reliable performance along with outstanding value, your SoundTech power amplifier has been designed for many years of dependable service. Please take the time to read this manual before operation so that you fully understand the features and correct use of this fine product.

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT OPEN THE CASE OF YOUR AMPLIFIER! THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICE TO AN AUTHORIZED SOUNDTECH SERVICE FACILITY.


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230 Lexington Drive, Buffalo Grove, IL 60089-6940 1-800-877-6863

# II WARRANTY INFORMATION

## UNPACKING

As a part of our system of quality control, every SoundTech product is carefully inspected before leaving the factory to insure flawless appearance. After unpacking, please inspect for any physical damage. Save the shipping carton and all packing materials, as they were carefully designed to reduce the possibility of transportation damage should the unit again require packing and shipping. In the event that damage has occurred, immediately notify your dealer so that a written claim to cover the damage can be initiated with the carrier.

The right to any claim against a public carrier can be forfeited if the carrier is not promptly notified and if the shipping carton and packing materials are not available for inspection by the carrier. Save all packing materials until the claim has been settled.

## SOUNDTECH LIMITED 3 YEAR WARRANTY

SoundTech electronics are warranted to be free from defects in materials and workmanship under normal use for a period of 3 years from date of original purchase. During that period, SoundTech will at its option, repair or replace materials at no charge if product has been delivered to SoundTech by a SoundTech dealer or SoundTech Service Center together with the original sales receipt or other proof of purchase. Warranty excludes exterior finish, normal wear, failure due to abuse, or operation outside of specified ratings. Warranty applies to original purchaser only. This warranty gives you specific legal rights which vary from state to state. For more information about warranty repair, please contact:
Customer Service Dept., 230 Lexington Drive, Buffalo Grove, IL 60089.

For your own protection, fill out the information below for your own records.

Model Number _____ Serial Number _____

Date of Purchase_____

Dealer _____

_____ Phone _____

_____

Salesman _____

Other Information

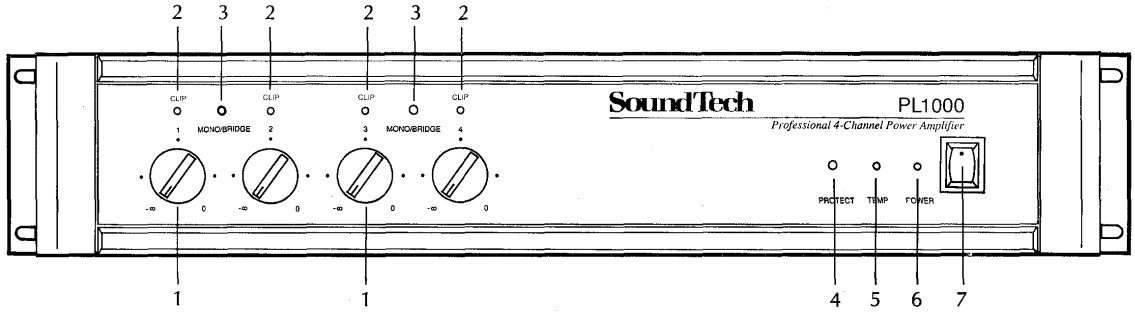
_____

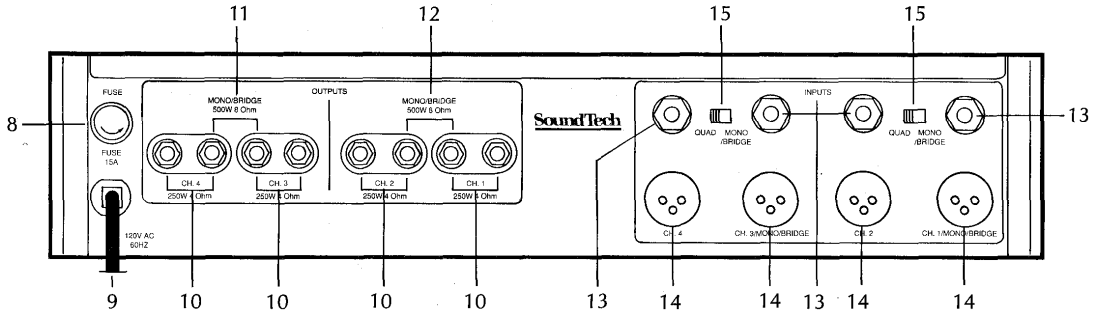
_____

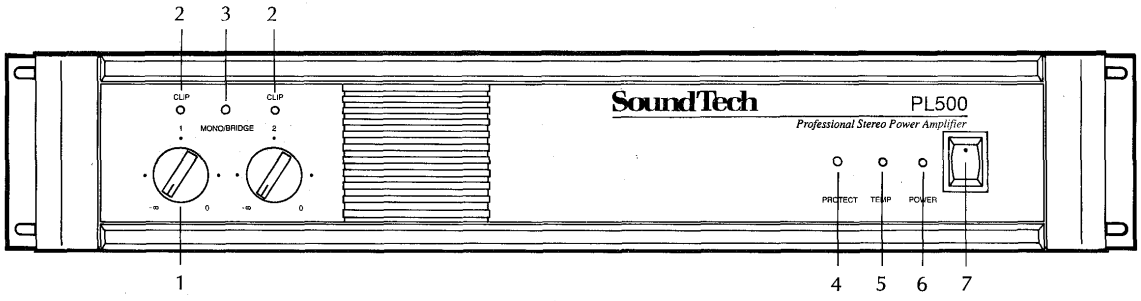
_____

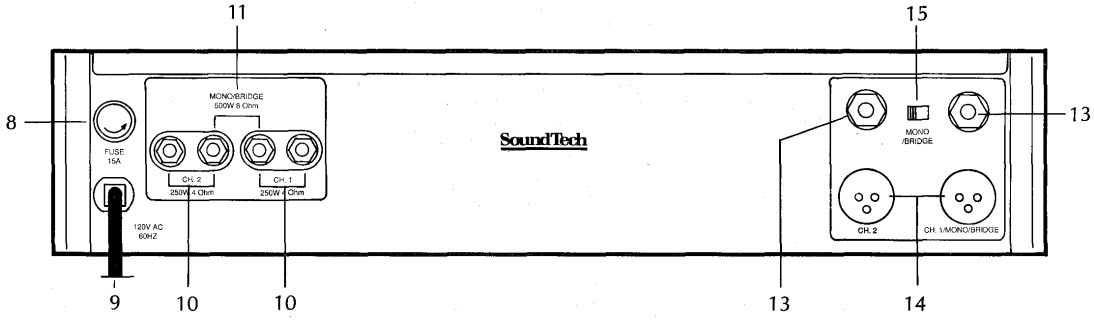
_____

# III PANEL DESCRIPTIONS ALL MODELS



## III PANEL DESCRIPTIONS

1. Channel input level attenuators. PL1000: In the bridge mode, only channel 1 and/or channel 3 attenuators are functional. PL500: In the bridge mode only the channel 1 attenuator is functional.

2. Channel clip indicator LED. Indicates that distortion is present on that channel.

3. Bridge mode indicator LED. PL1000: Shows when either channels 1 & 2 or 3 & 4 are in bridge mode. PL500: Shows when channels 1 & 2 are in bridge mode .

4. Protect indicator LED. When protect conditions occur, such as a short at the speaker terminals, this LED will light and the amplifier will cease to operate until protect condition is corrected.

5. Temperature indicator LED. Will light if internal temperature exceeds design limits.

6. Power indicator LED.

7. Power On/Off switch.

8. Fuse. Replace **only** with correct type and rating.

9. Power cord.

10. Speaker connections for normal operation. PL1000: Channels 1 through 4. PL500: Channels 1 & 2.

11. Speaker connections for operation of channels 1 & 2 in the bridge mode.

12. Speaker connections for operation of channels 3 & 4 in the bridge mode (PL1000 only).

NOTE: See section IV "Operating Procedures" for correct method of connecting speakers to speaker outputs.

13. High impedance, line level inputs.

14. Low impedance, balanced inputs.

15. Bridge mode switch. Bridges inputs in channel pairs as indicated.

## IV OPERATION

A. Mounting

The PL1000 and PL500 were designed for standard 19" rack mounting or may be stacked without a cabinet. When rack mounting more than one unit, be sure to allow adequate ventilation. Inadequate cooling will cause the overheat protection circuitry to shut the amplifier down until adequate cooling is provided and the operating temperature is lowered.

NOTE: The PL1000 and PL500 forced air cooling systems function best when using a SoundTech rack allowing unrestricted air flow through the intake and exhaust. Your SoundTech dealer can suggest the best SoundTech rack for your needs.

## B. OPERATING PRECAUTIONS

Your SoundTech amplifier is well protected from any external faults. However, we recommend following these precautions:

1. Do not expose the unit to water. Always unplug the unit if water is present. Failure to do so can result in injury or death from electric shock.

2. Connect the AC power cord only to a grounded AC outlet with the three-pronged plug supplied. Do not use a grounding adapter or attempt to cut or otherwise defeat the ground on the plug. Failure to properly ground the unit can result in damage to the amplifier and any equipment connected to it which would not be covered under warranty.

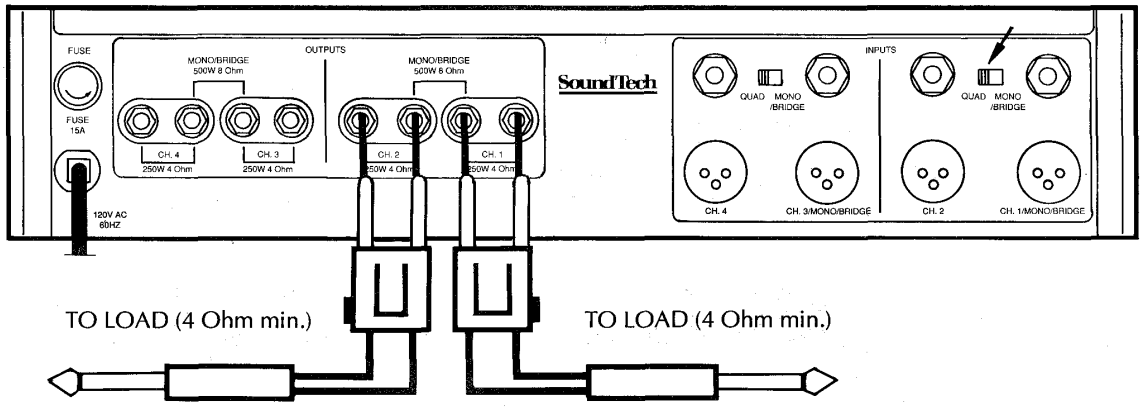
3. Operate from AC mains not more than 10% above selected line voltage and only line frequency specified. Failure to comply invalidates warranty.

## C. PL1000 QUAD OPERATION (PL500 STEREO OPERATION)

This basic method of operation is recommended for 4 Ohm applications. Each channel provides a separate and discrete signal at the speaker outputs according to the signal received at the inputs. The PL1000 offers four separate channels for quad operation, the PL500 has two for stereo operation. Follow these steps to use the amplifier in this manner:

1. Set the switch(es) on the rear panel to the quad (stereo) position.
2. PL1000: Connect the input lines to channels 1 through 4.
   PL500: Connect the input lines to channels 1 and 2.
3. PL1000: Adjust the level controls on channels 1 through 4 until the clip LED just flashes during peaks. PL500: Adjust the level controls on channels 1 and 2 until the clip LED just flashes during peaks.
4. Connect speakers as shown in figure 1. (Only channels 1 and 2 are shown. Connect channels 3 and 4 in the same way on the PL1000.)

Figure 1: Quad/Stereo operation.

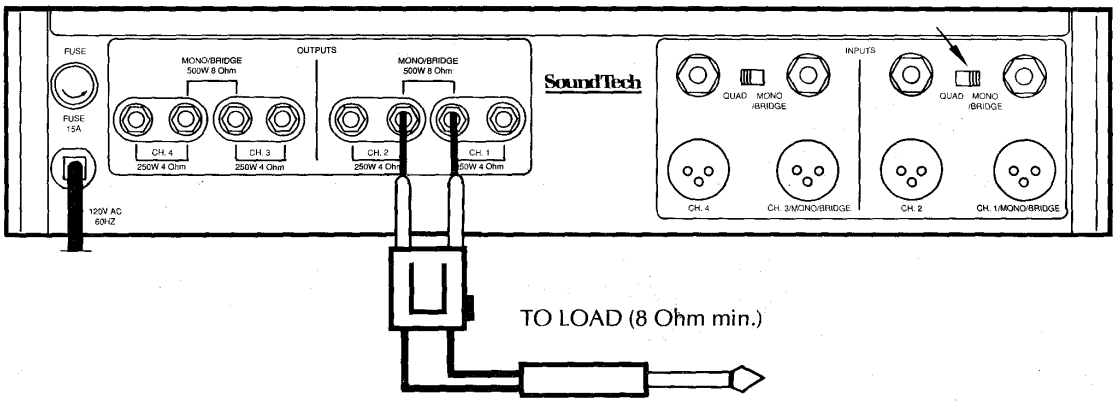


D. BRIDGED/MONO OPERATION

This method of operation bridges inputs and outputs and is recommended for 8 Ohm applications only. This allows the PL1000 to be used as a stereo amplifier rather than a quad amplifier. By bridging only one side of the PL1000 (i.e. channels 3 & 4), the amplifier then becomes a three channel amplifier. Bridging the PL500 converts the PL500 to a monophonic or single channel amplifier.

1. Set the switch(es) on the rear panel for the channel(s) you wish to bridge to the BRIDGE/MONO position.
2. PL1000: Connect the input line to channel 1 or channel 3. PL500: Connect the input line to channel 1.
3. PL1000: Adjust levels with channel 1 or channel 3 control until the clip LED just flashes during peaks. PL500: Adjust level with channel 1 control until clip LED just flashes during peaks.
4. Connect speakers as shown in Figure 2. (Only channels 1 and 2 are shown. Connect channels 3 and 4 in the same way on the PL1000.)

Figure 2: 8 Ohm load operation.




Note: Only PL1000 is shown in figures 1 & 2. For PL500, refer only to channels 1 & 2 of diagrams.

Always switch off the power and turn the input level controls all the way down before making connections. This will eliminate any chance of loud blasts or damage to the loudspeaker.

A preferred speaker cable connector is a "Dual Banana" (MDP) plug. Make sure plugs are snug

To prevent High Frequency Oscillations:

1. Lace speaker cables together.
2. Separate speaker cables from input cables.
3. Never connect the amplifier's input and output grounds together.

## E. CONNECTING INPUTS

Your SoundTech amplifier features 1/4 inch and XLR type inputs on each channel. The XLR input is balanced electronically and wired as follows:

Connect the inputs and control the input level with the input level controls on the front panel (See Fig 3).

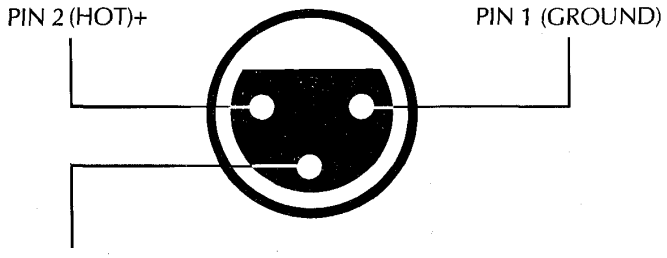



Figure 3: Balanced XLR input wiring.

## F. POWER REQUIREMENTS

Your SoundTech amplifier is furnished with a three-wire, 20A, 120V AC plug. Use a 20A wall outlet circuit whenever possible.

## G. FRONT PANEL DISPLAY

The PL1000 and PL500 front panels include several LED's to monitor operating conditions.

1. A CLIP LED for each channel indicates clipping on the output of that channel. If the CLIP LED remains lit during operation, reduce the input signal level either at the source or by use of the appropriate channel input attenuator control. The CLIP LED should flash momentarily only during program peaks.

2. The MONO/BRIDGE LED will light when the mono/bridge switch on the rear panel is in the mono/bridge position.

3. The PROTECT LED indicates that the amplifier is in the "protect" mode. If the PROTECT LED remains lit, switch off the amplifier. If, upon attempting to resume amplifier operation, the LED remains lit, do not use the amplifier. Refer the amplifier to an authorized SoundTech service facility.

> Never operate the amplifier with the PROTECT LED lit as serious damage not covered by the warranty could occur to the amplifier and other equipment connected to it.

4. The TEMP LED indicates that the internal temperature of the amplifier has exceeded design limits. If the temperature continues to increase to an unsafe level, the amplifier will cease to operate until the temperature returns to normal.

5. The POWER LED indicates that the power switch is in the "on" position.

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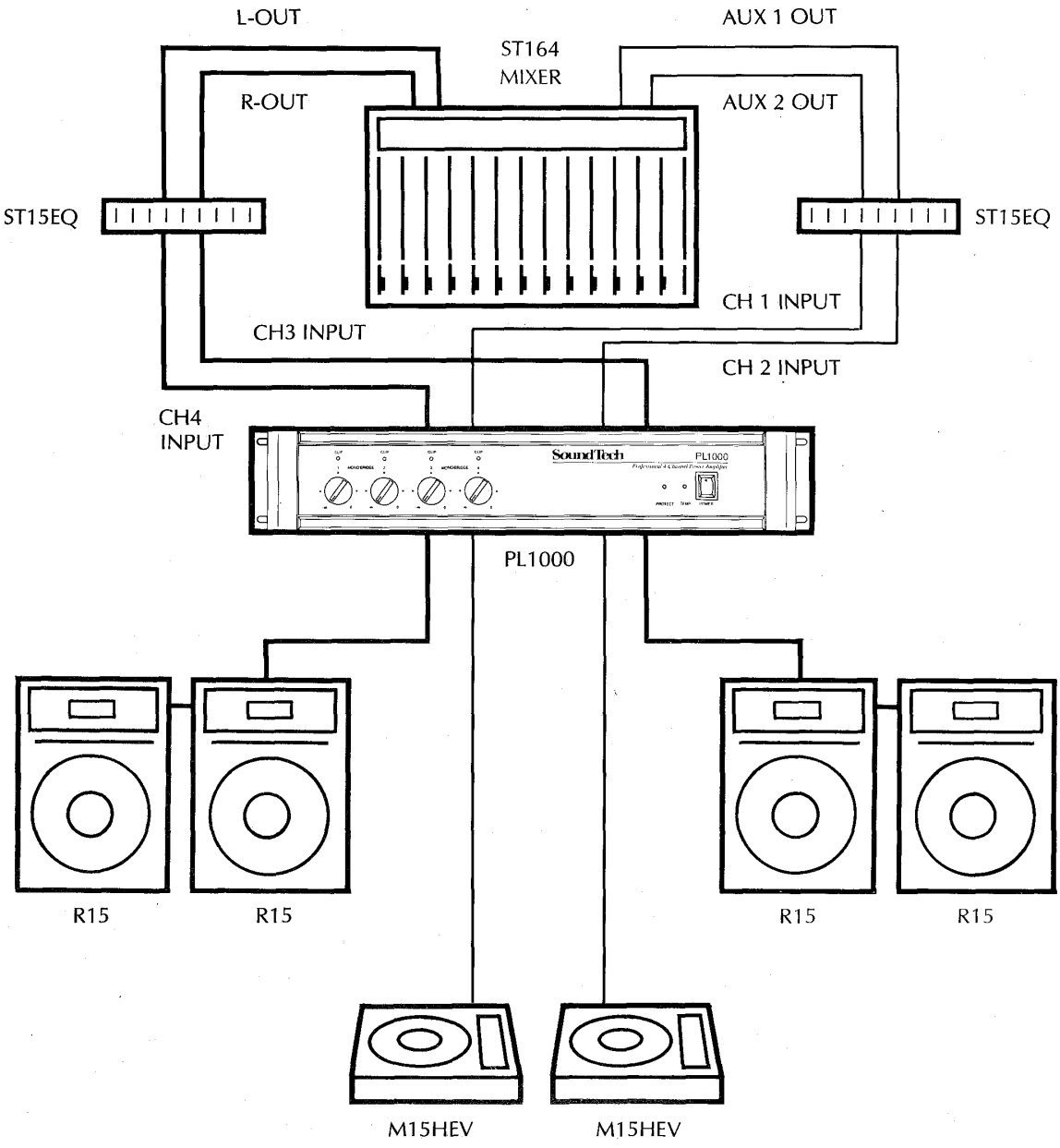
## STEREO PA SYSTEM
WITH DUAL MONITOR SYSTEM



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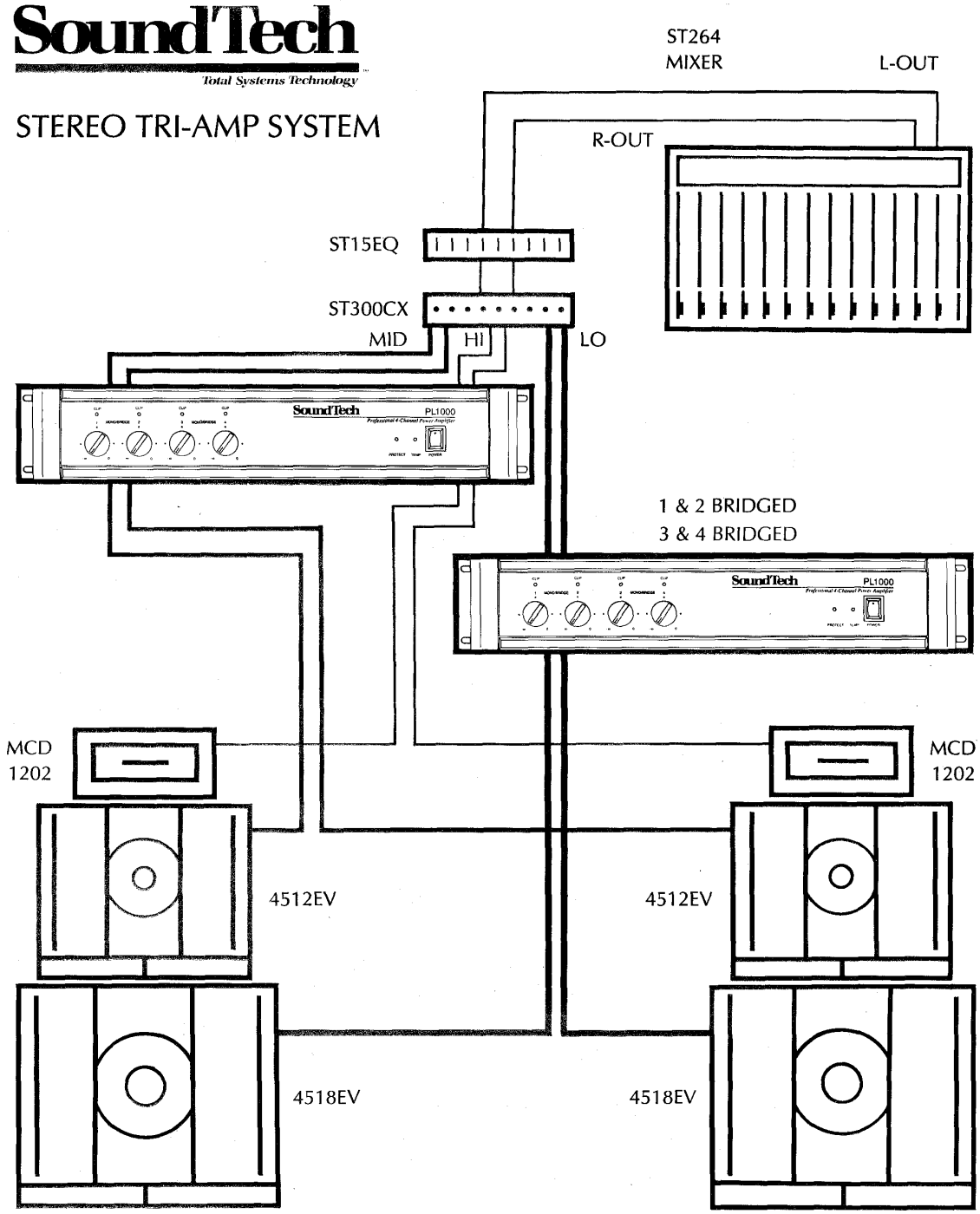
## STEREO TRI-AMP SYSTEM



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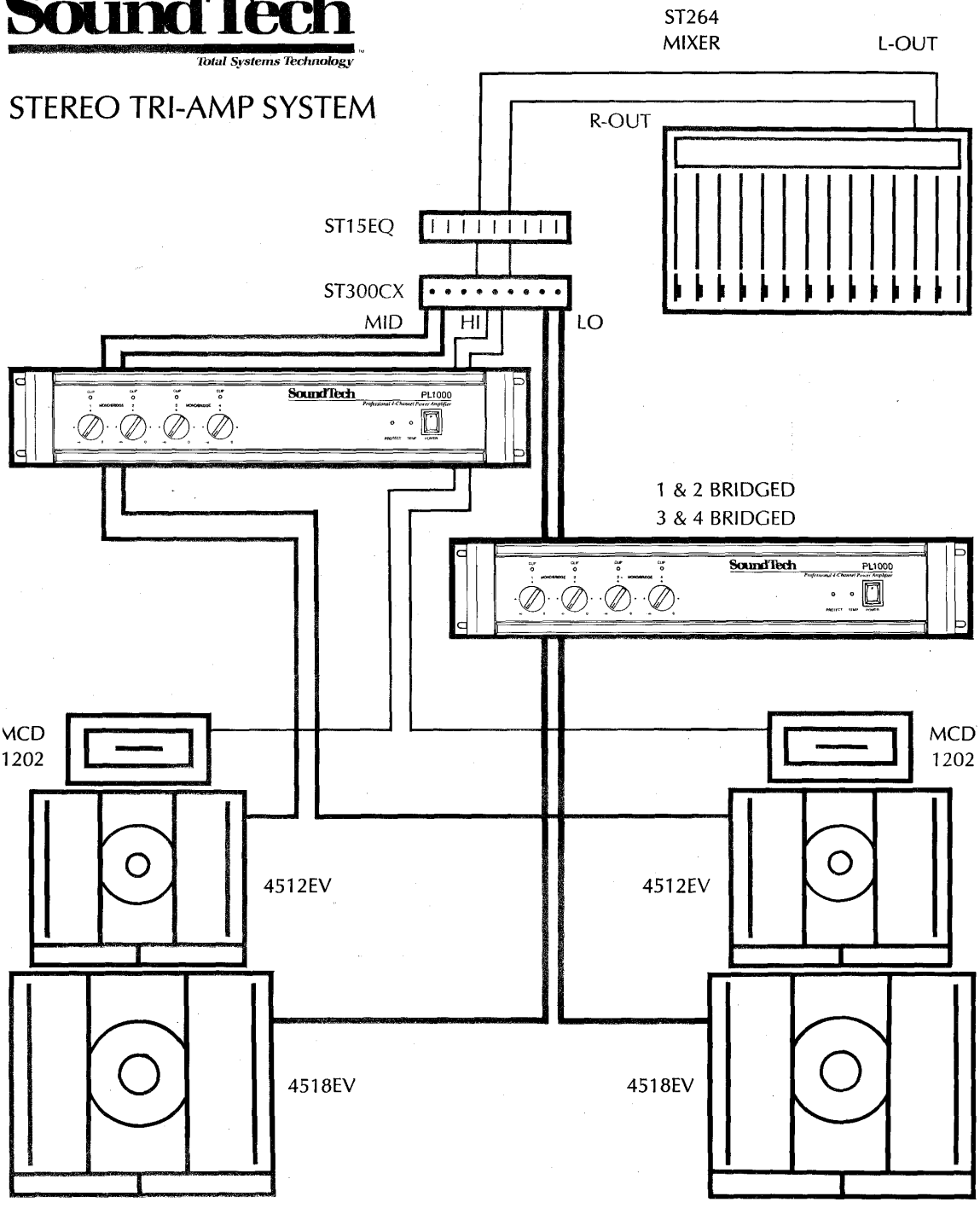
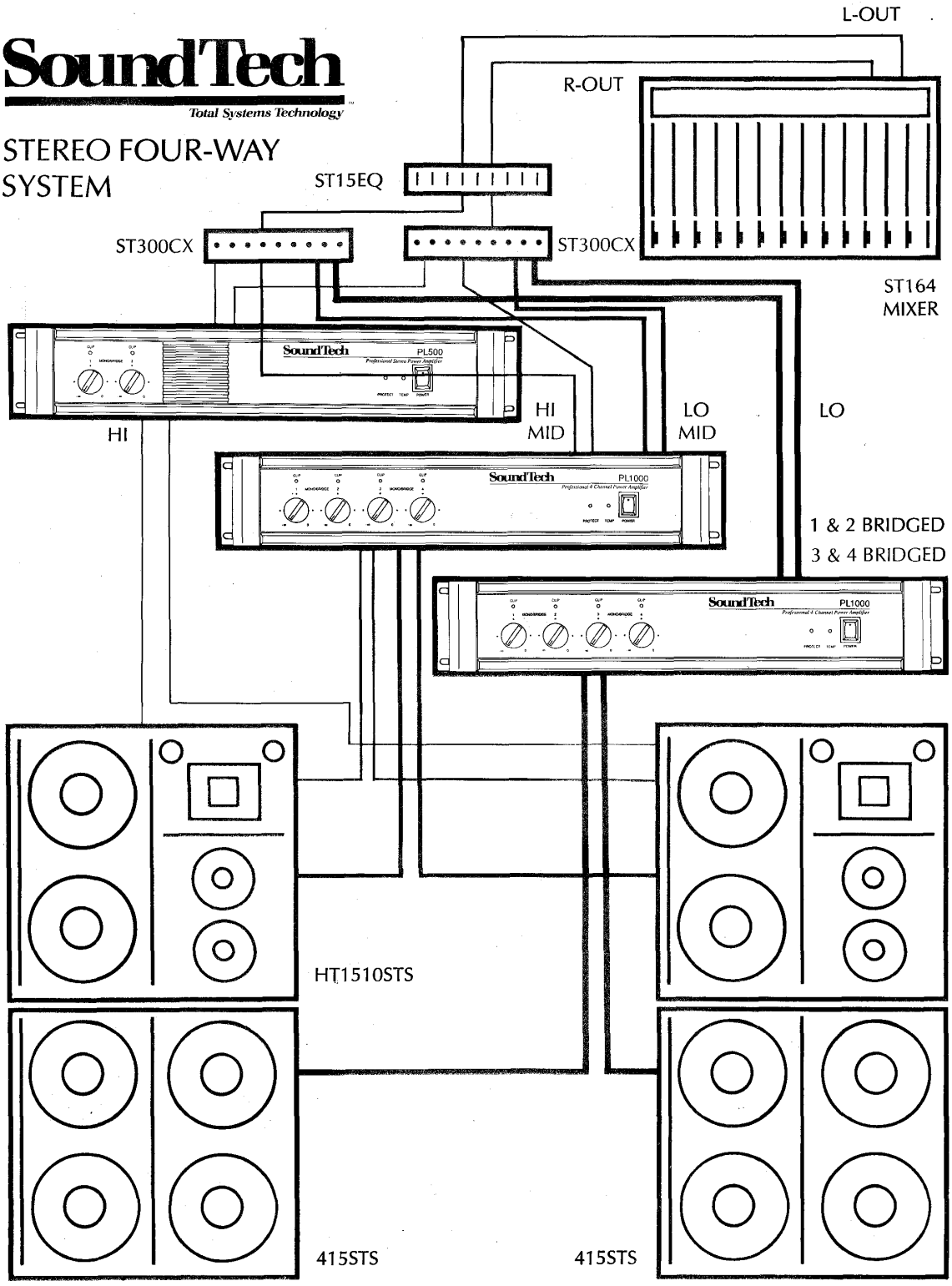
## STEREO TRI-AMP SYSTEM




SoundTech
Total Systems Technology
STEREO FOUR-WAY SYSTEM
L-OUT
R-OUT
ST15EQ
ST300CX
ST300CX
ST164 MIXER
SoundTech PL500
HI
HI MID
LO MID
LO
SoundTech PL1000
1 & 2 BRIDGED
3 & 4 BRIDGED
SoundTech PL1000
HT1510STS
415STS
415STS

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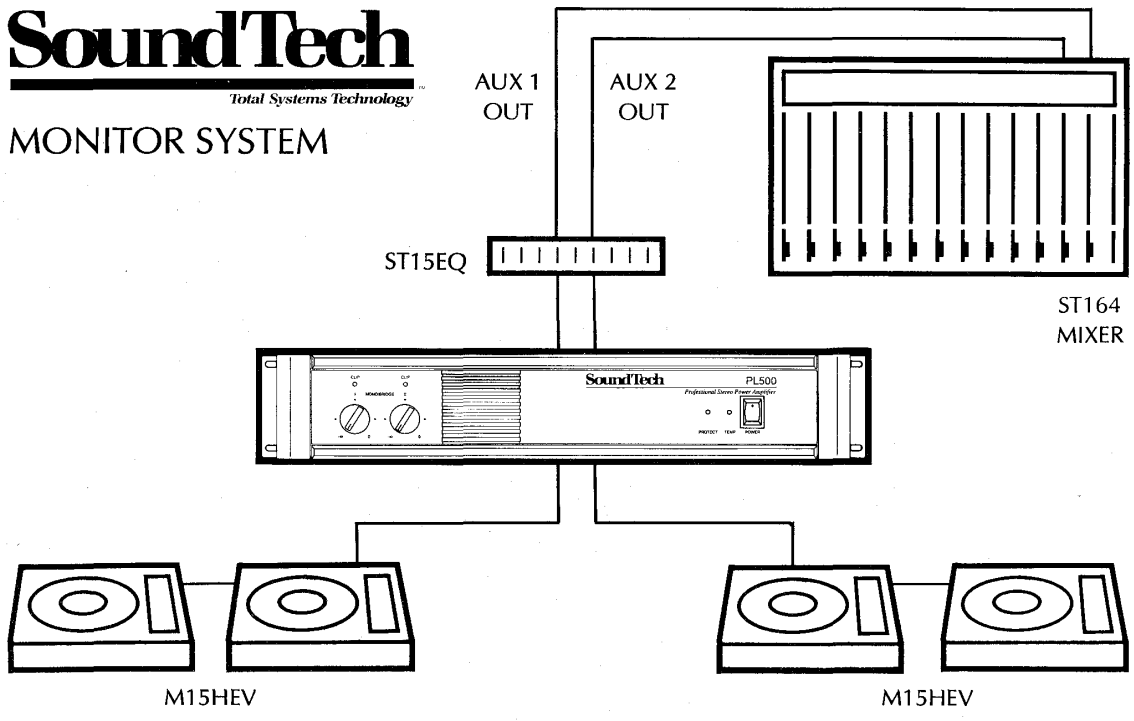
## MONITOR SYSTEM

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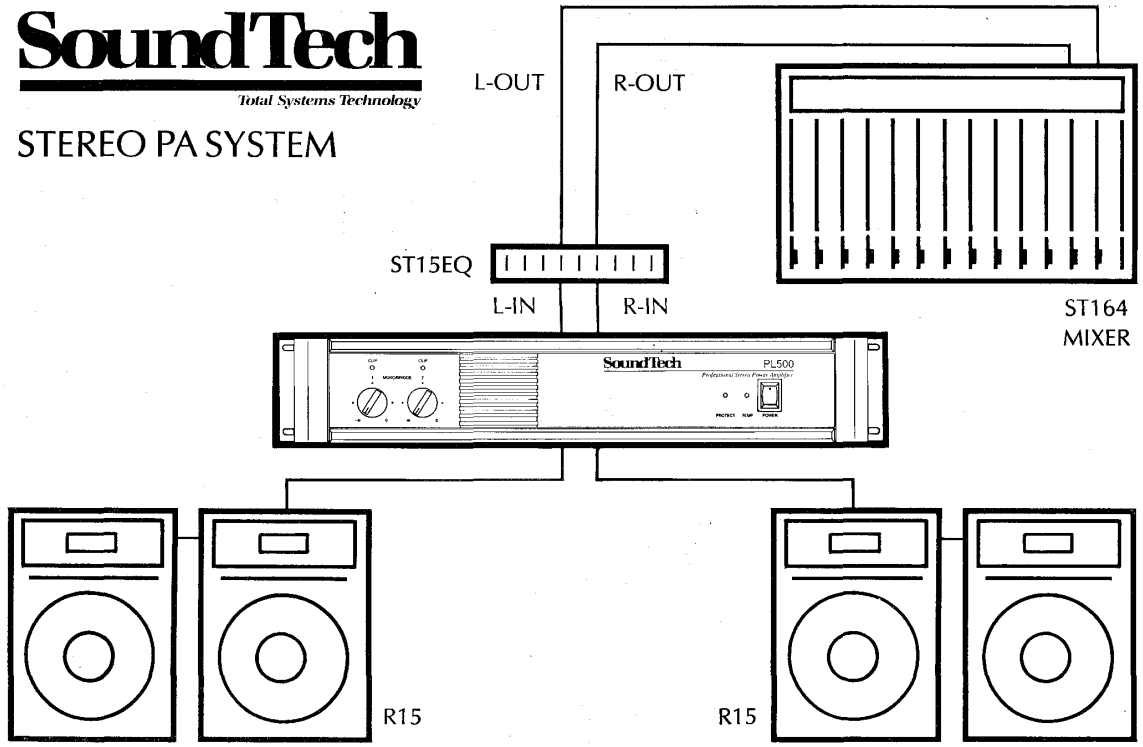
## STEREO PA SYSTEM



# VI SPECIFICATIONS

| | PL1000 | PL500 |
|---|---|---|
| Power Output: | | |
| 4 Ohms | 250Wx4 | 250Wx2 |
| 8 Ohms | 165Wx4 | 165Wx2 |
| 8 Ohms Bridged Mono | 500Wx2 | 500W |
| Frequency Response: | 15Hz-30KHz | 15Hz-30KHz |
| T.H.D. at Rated Output: | 0.007% | 0.007% |
| Crosstalk: | −84dB | −85dB |
| Damping Factor at 8 Ohms: | 300:1 | 300:1 |
| Slew Rate: | 48V/μs | 48V/μs |
| Input Impedance: Unbalanced: | 10KOhms | 10KOhms |
| Input Impedance: Balanced: | 600 Ohms | 600 Ohms |
| Input Sensitivity: | 1.23V | 1.23V |
| Voltage Gain: | 28dB | 28dB |
| Signal to Noise Ratio: | 108dB | 110dB |
| Hum & Noise: | −83dB | −85dB |
| Indicators: | 1 power LED | 1 power LED |
| | 1 temp LED | 1 temp LED |
| | 1 protect LED | 1 protect LED |
| | 2 bridge/mono LED | 1 bridge/mono LED |
| | 4 clip LED | 2 clip LED |
| Cooling: | Dual Fan Forced Air | Single Fan Forced Air |
| Protection: | All Models | |
| | Short Circuit Current Limited | |
| | Thermal Cut Off | |
| | DC | |
| | Power Up/Down Transients | |
| | Fused Outputs | |
| | AC Line Fuse | |
| Connectors: | | |
| Unbalanced Inputs: | ¼" Jack | |
| Balanced Inputs | XLR Jack | |
| Speaker Outputs | Heavy Duty 5-Way Binding Post | |
| Power Requirements: | 120/220/240 VAC 50-60Hz | |
| Dimensions: | 19"x16"x3½" - 483mm x 407mm x 89mm | |
| Weight: | 59 lbs. | 39 lbs. |
| | 27 Kg | 16 Kg. |

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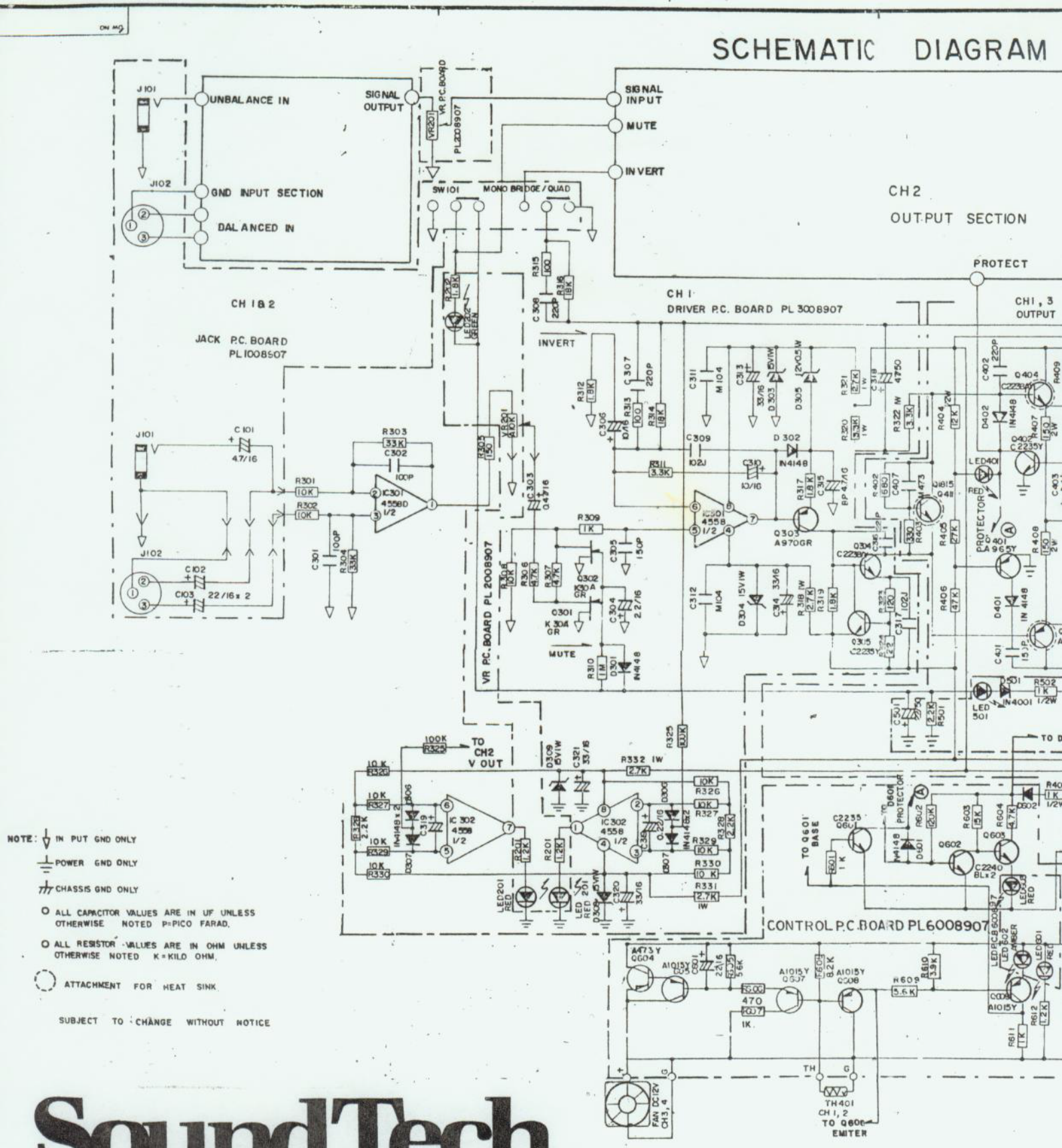


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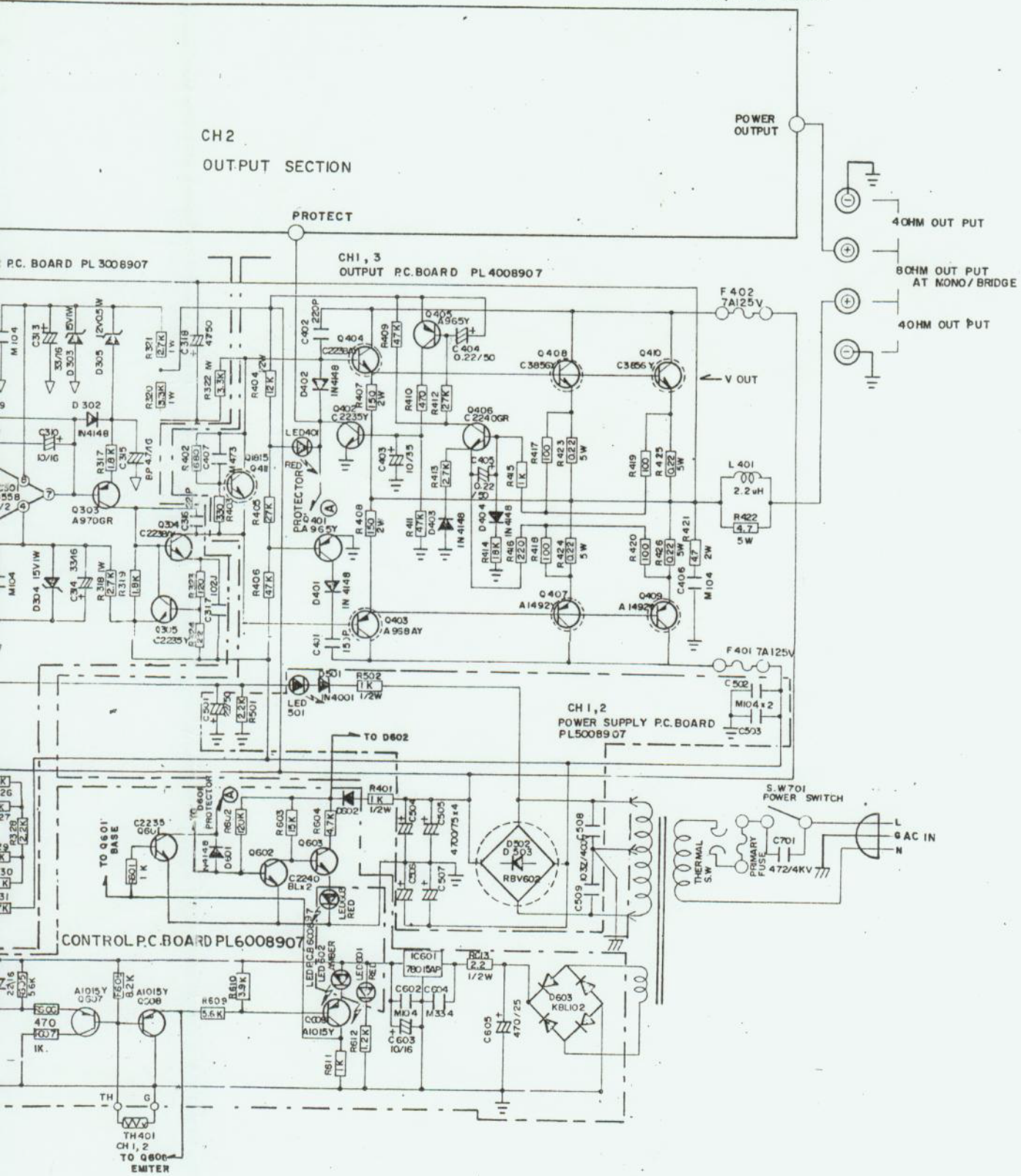
Schematic Diagram PL500 and PL1000

# SCHEMATIC DIAGRAM

PL-500, PL-1000




| P.NO | NAME | Q'ty | MATERIAL | FINISH | REMARKS |
|---|---|---|---|---|---|

| ZONES | REVISION | DATE | CHANGE | CH APP |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

NOTES

| | |
|---|---|
| DS | REF NO |
| DR | MODEL |
| CH | TITLE |
| SCALE / APP | |
| G TOL | RELEASE |
| | DW NO |

# PARTS LIST

## MODEL : PL-1000

| NO | REVISION | DATE | SIGN |
|---|---|---|---|
| 1 | DRIVER - OUTPUT NEW | 91.4.30 | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |

| DRAWN | CHECK | APPROVE |
|---|---|---|
| 1990.9.9 | 199 . . . | 199 . . . |
| Cuy | | |

SoundTech-KOREA

MODEL No. : PL-1000

Ass'y : OUT PUT BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL4008907 | PCB | CEM-3 1.6$^{t}$ |
| R 401 | RESISTOR | 1 KOHm 1/2W |
| R 402 | RESISTOR | 680 OHm 1/4W |
| R 403 | RESISTOR | 330 OHm 1/4W |
| R 404 | RESISTOR | 12 KOHm 1/2W |
| R 405 | RESISTOR | 27 KOHm 1/4W |
| R 406 | RESISTOR | 47 KOHm 1/4W |
| R 407 | RESISTOR | 100 OHm 2W |
| R 408 | RESISTOR | 100 OHm 2W |
| R 409 | RESISTOR | 18 KOHm 1/4W |
| R 410 | RESISTOR | 2.2 KOHm 1/4W |
| R 411 | RESISTOR | 47 KOHm 1/4W |
| R 412 | RESISTOR | 10 KOHm 1/4W |
| R 413 | RESISTOR | 2.7 KOHm 1/4W |
| R 414 | RESISTOR | 18 KOHm 1/4W |
| R 415 | RESISTOR | 1 KOHm 1/4W |
| R 416 | RESISTOR | 220 OHm 1/4W |
| R 417 | RESISTOR | 100 OHm 1/4W |
| R 418 | RESISTOR | 100 OHm 1/4W |
| R 419 | RESISTOR | 100 OHm 1/4W |
| R 420 | RESISTOR | 100 OHm 1/4W |
| R 421 | RESISTOR | 4.7 OHm 2W |
| R 422 | RESISTOR | 4.7 OHm 5W |
| R 423 | RESISTOR | 0.22 OHm 5W |
| R 424 | RESISTOR | 0.22 OHm 5W |
| R 425 | RESISTOR | 0.22 OHm 5W |

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| R 426 | RESISTOR | 0.22 OHm 5W |
| R 702 | RESISTOR | 1 MOHm 1/4W |
| R 703 | RESISTOR | 120 KOHm 1/4W |
| C 401 | CAPACITOR | 220 pF J CH 50V |
| C 402 | CAPACITOR | 220 pF J CH 50V |
| C 403 | CAPACITOR | 10 uF 35V |
| C 404 | CAPACITOR | 0.22 uF 50V |
| C 405 | CAPACITOR | 0.22 uF 50V |
| C 406 | CAPACITOR | 104 pF J 100V |
| C 407 | CAPACITOR | 473 pF J 50V |
| C 701 | CAPACITOR | 1 uF 50V |
| D 401 | DIODE | 1N 4148 |
| D 402 | DIODE | 1N 4148 |
| D 403 | DIODE | 1N 4148 |
| D 404 | DIODE | 1N 4148 |
| D 701 | DIODE | 1N 4148 |
| LED 401 | LED | KLR 124E |
| Q 401 | TR | 2SA 965 Y |
| Q 402 | TR | 2SC 2235 Y |
| Q 403 | TR | 2SA 1667 Y |
| Q 404 | TR | 2SC 4381 Y |
| Q 405 | TR | 2SA 965 Y |
| Q 406 | TR | 2SC 2240 GR |
| Q 407 | TR | 2SA 1492 O OR Y |
| Q 408 | TR | 2SC 3856 O OR Y |
| Q 409 | TR | 2SC 3856 O OR Y |

MODEL No. : PL-1000

Ass'y : OUT PUT BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| Q 410 | TR | 2SA 1492 O OR |
| Q 411 | TR | 2SC 1815Y |
| Q 701 | F.E.T | 2SK 30A GR |
| L 401 | COIL | 2.2 uH |
| F 401 | FUSE W/CLIP | 8A 125V 30m/m |
| F 402 | FUSE W/CLIP | 8A 125V 30m/m |
| TH 401 | THERMISTOR | 150 KOHm |

MODEL No. : PL-1000

Ass'y : DRIVER BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL3008907 | PCB | CEM-3 $1.6^{t}$ |
| R 301 | RESISTOR | 10 KOHm 1/4W |
| R 302 | RESISTOR | 10 KOHm 1/4W |
| R 303 | RESISTOR | 33 KOHm 1/4W |
| R 304 | RESISTOR | 33 KOHm 1/4W |
| R 305 | RESISTOR | 150 OHm 1/4W |
| R 306 | RESISTOR | 4.7 KOHm 1/4W |
| R 307 | RESISTOR | 4.7 KOHm 1/4W |
| R 308 | RESISTOR | 10 KOHm 1/4W |
| R 309 | RESISTOR | 1 KOHm 1/4W |
| R 310 | RESISTOR | 1 MOHm 1/4W |
| R 311 | RESISTOR | 150 KOHm 1/4W |
| R 312 | RESISTOR | 1.2 KOHm 1/4W |
| R 313 | RESISTOR | 100 OHm 1/4W |
| R 314 | RESISTOR | 18 KOHm 1/4W |
| R 315 | RESISTOR | 100 OHm 1/4W |
| R 316 | RESISTOR | 18 KOHm 1/4W |
| R 317 | RESISTOR | 1.8 KOHm 1/4W |
| R 318 | RESISTOR | 3.3 KOHm 2W |
| R 319 | RESISTOR | 1.8 KOHm 1/4W |
| R 320 | RESISTOR | 3.3 KOHm 1W |
| R 321 | RESISTOR | 3.3 KOHm 2W |
| R 322 | RESISTOR | 3.3 KOHm 1W |
| R 323 | RESISTOR | 68 OHm 1/4W |
| R 324 | RESISTOR | 22 OHm 1/4W |
| R 325 | RESISTOR | 100 KOHm 1/4W |

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| R $325^{-1}$ | RESISTOR | 1 MOHm 1/4W |
| R 326 | RESISTOR | 10 KOHm 1/4W |
| R 327 | RESISTOR | 10 KOHm 1/4W |
| R 328 | RESISTOR | 2.2 KOHm 1/4W |
| R 329 | RESISTOR | 10 KOHm 1/4W |
| R 330 | RESISTOR | 10 KOHm 1/4W |
| R 331 | RESISTOR | 3.3 KOHm 1W |
| R 332 | RESISTOR | 3.3 KOHm 1W |
| C 301 | CAPACITOR | 100 pF J 50V |
| C 302 | CAPACITOR | 100 pF J 50V |
| C 303 | CAPACITOR | 4.7 uF 16V |
| C 304 | CAPACITOR | 2.2 uF 16V |
| C 305 | CAPACITOR | 150 pF J 50V |
| C 306 | CAPACITOR | 10 uF 16V |
| C 307 | CAPACITOR | 220 pF J CH 50V |
| C 308 | CAPACITOR | 220 pF J CH 50V |
| C 309 | CAPACITOR | 102 pF J 50V |
| C 310 | CAPACITOR | 10 uF 16V |
| C 311 | CAPACITOR | 104 pF J 100V |
| C 312 | CAPACITOR | 104 pF J 100V |
| C 313 | CAPACITOR | 33 uF 16V |
| C 314 | CAPACITOR | 33 uF 16V |
| C 315 | CAPACITOR | 22 uF 16V |
| C 316 | CAPACITOR | 22 pF J CH 50V |
| C 317 | CAPACITOR | 102 pF J 50V |
| C 318 | CAPACITOR | 47 uF 50V |

MODEL No. : PL-1000

Ass'y : POWER SUPPLY BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL5008907 | PCB | CEM-3 1.6$^{t}$ |
| R 501 | RESISTOR | 2.2 KOHm 1/4W |
| R 502 | RESISTOR | 1.5 KOHm 1/2W |
| C 501 | CAPACITOR | 22 uF 50V |
| C 502 | CAPACITOR | 104 pF J 100V |
| C 503 | CAPACITOR | 104 pF J 100V |
| C 504 | CAPACITOR | 4700 uF 75V |
| C 505 | CAPACITOR | 4700 uF 75V |
| C 506 | CAPACITOR | 4700 uF 75V |
| C 507 | CAPACITOR | 4700 uF 75V |
| C 508 | CAPACITOR | 103 pF Z 400V |
| C 509 | CAPACITOR | 103 pF Z 400V |
| D 501 | DIODE | 1N 4001 |
| D 502 | DIODE | 6A 200V |
| D 503 | DIODE | 6A 200V |
| ZD 501 | DIODE | 12V 1W |
| LED 501 | LED | KLG 124E |

MODEL No. : PL-1000

Ass'y : CONTROL BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL6008907 | PCB | CEM-3 1.6 |
| R 601 | RESISTOR | 3.3 OHm 1/4W |
| R 602 | RESISTOR | 2.2 MOHm 1/4W |
| R 604 | RESISTOR | 3.3 KOHm 1/4W |
| R 605 | RESISTOR | 56 KOHm 1/4W |
| R 606 | RESISTOR | 470 KOHm 1/4W |
| R 607 | RESISTOR | 560 OHm 1/4W |
| R 608 | RESISTOR | 8.2 KOHm 1/4W |
| R 609 | RESISTOR | 10 KOHm 1/4W |
| R 610 | RESISTOR | 4.7 KOHm 1/4W |
| R 611 | RESISTOR | 560 OHm 1/4W |
| R 612 | RESISTOR | 1.2 KOHm 1/4W |
| R 701 | RESISTOR | 3.3 KOHm 1/4W |
| R 704 | RESISTOR | 47 OHm 1W |
| C 601 | CAPACITOR | 22 uF 16V |
| C 602 | CAPACITOR | 104 pF K 100V |
| C 603 | CAPACITOR | 10 uF 16V |
| C 604 | CAPACITOR | 334 pF K 50V |
| C 605 | CAPACITOR | 470 uF 25V |
| D 601 | DIODE | 1N 4148 |
| D 602 | DIODE | 1N 4001 |
| D 603 | DIODE | 1A 100V |
| Q 601 | TR | 2SC 2235 Y |
| Q 602 | TR | 2SC 2240 BL |
| Q 603 | TR | 2SC 2240 BL |
| Q 604 | TR | 2SA 473 Y |

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| Q 605 | TR | KTA 1266Y |
| Q 607 | TR | KTA 1266Y |
| Q 608 | TR | KTA 1266Y |
| Q 609 | TR | KTA 1266Y |
| IC 601 | IC | KIA 78015AP |
| TR 101 | TRIAC | BTA-26-600B |

MODEL No. : PL-1000

Ass'y : L.E.D BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL6008907 | PCB | FR-1 $1.6^{t}$ |
| LED 601 | LED | KLG114L $5^{\phi}$(GREEN) |
| LED 602 | LED | KLA114L $5^{\phi}$(AMBER) |
| LED 603 | LED | KLR114L $5^{\phi}$(RED) |

MODEL No. : PL-1000

Ass'y : V R BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL2008907 | PCB | FR-1 $1.6^{t}$ |
| R 201 | RESISTOR | 1.2 KOHm 1/4W |
| R 202 | RESISTOR | 1.8 KOHm 1/4W |
| LED 201 | LED | KLR114L $5^{\phi}$(RED) |
| LED 202 | LED | KLR114L $5^{\phi}$(GREEN) |
| VR 201 | VOLUME | 18PN01 15SK A10K |

MODEL No. : PL-1000

Ass'y : JACK BOARD

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| PL1008907 | PCB | FR-1 $1.6^{t}$ |
| C 101 | CAPACITOR | 4.7 uF 16V |
| C 102 | CAPACITOR | 22 uF 16V |
| C 103 | CAPACITOR | 22 uF 16V |
| J 101 | PHONE JACK | AMJ-200PI |
| J 102 | XLR JACK | XLF-3SP-3 |
| SW 101 | SWITCH | JS-2228-7 |

MODEL No. : PL-1000

Ass'y : CHASSIS ASSY

| DRAWING No. | DESCRIPTION | SPECIFICATION |
|---|---|---|
| | POWER CORD | AWG 16/3C 7FT BL |
| | CORD STOPPER | 6N-3-4 |
| | FUSE HOLDER | FH-052 2CA |
| | POWER SWITCH | HLS-208N BLACK |
| | THERMAL SWITCH | T125, 5U/M3 |
| | FUSE SLOW BLOW | AC 20A 250V |
| | FAN FOR COOLING | DO8T 12PG |
| | BANANA TERMINAL | TB-3010 |
| | TRANS FOR POWER | 1814485500 A |
| | TRANS FOR POWER | 1814485500 B |

MODEL No. : PL-1000

Ass'y : CHASSIS

| DRAWING No. | DESCRIPTION | FINISH |
|---|---|---|
| STK-12-3-006 | MAIN CHASSIS | EGI t=1.5 BLACK SPRAY |
| STK-12-3-007 | TOPCOVER | EGI t=1.5 BLACK SPRAY |
| STK-12-3-008 | FRONT CHASSIS | EGI t=1.5 BLACK SPRAY |
| STK-12-3-009 | BACK CHASSIS | EGI t=1.5 BLACK SPRAY |
| STK-12-3-010 | FRONT PANEL | ABS t=1.5 BLACK SPRAY |
| STK-12-3-011 | HEAT SINK(MAIN) | AL EXTRUDE WHITE |
| STK-12-3-012 | STYROFOAM UPPER | STYROFOAM |
| STK-12-3-013 | STYROFOAM BOTTOM | STYROFOAM |
| STK-12-4-006 | VENTRATION COVER | PUNCHING METAL ø 5 |
| STK-12-5-001 | X-LR BRACKET | EGI t=1.0 |
| STK-12-5-003 | KNOB | ABS t=1.5 |
| STK-12-5-004 | RUBBER FOOT | RUBBER BLACK |
| STK-12-5-008 | WARRANTY CARD | PAPER |
| STK-12-5-009 | POLY BAG(MANUAL) | P.E t=0.05 |
| STK-12-5-010 | HEAT SINK(DIODE) | ALP t=3.0 WHITE |
| STK-12-5-011 | HANDLE | AL EXTRUDE BLACK |
| STK-12-5-012 | AL SUPPORT | AL EXTRUDE BLACK |
| STK-12-5-013 | FAN BRACKET | EGI t=1.5 |
| STK-12-5-014 | TRANS BRACKET | EGI t=2.0 |
| STK-12-5-015 | CONTROL PCB BKT | EGI t=1.5 |
| STK-12-5-016 | MAIN PCB BRACKET | EGI t=1.5 |
| STK-12-5-017 | FIBER | FIBER t=0.5 RED |
| STK-12-5-018 | THERMISTOR CAP | t=0.4 |
| STK-12-5-021 | CARTON BOX | DW-2 |
| STK-12-5-022 | POLY BAG(SET) | P.E t=0.07 |
| STK-12-5-024 | CORD BRACKET | EGI t=1.5 BLACK |

| DRAWING No. | DESCRIPTION | FINISH |
|---|---|---|
| STK-13-4-005 | OWNER MANUAL | BOOK |
| | RING TERMINAL | ø 4 |
| | CORD CLAMP | 5N WHITE |
| | MACHINE SCREW | PH(+) M BLACK 2.[illegible] |
| | MACHINE SCREW | PH(+) M ZnW 3x8 |
| | MACHINE SCREW | PH(+) M ZnW 3x12 |
| | MACHINE SCREW | PH(+) M BLACK 4x1 |
| | MACHINE SCREW | BH(+) M ZnW 3x12 |
| | MACHINE SCREW | FH(+) M BLACK 4x1 |
| | MACHINE SCREW | BH(+) M BLACK 5x1 |
| | MACHINE SCREW | PH(+) M BLACK 4x1 |
| | TAPPING SCREW | PH(+) ZnW 3x8 T2 |
| | TAPPING SCREW | FH(+) 3x8 T2 |
| | TAPPING SCREW | TH(+) BLACK 4x10 |
| | SPRING WASHER | ø 3 ZnW |
| | SPRING WASHER | ø 4 ZnW |
| | SPRING WASHER | ø 4 BLACK |
| | SPRING WASHER | ø 3 ZnW |
| | PLAIN WASHER | ø 3 ZnW |
| | PLAIN WASHER | ø 4 ZnW |
| | PLAIN WASHER | ø 4 ZnW |
| | INT LOCK WASHER | ø ZnW |
| | NUT | M 3 ZnW |
| | NUT | M 4 ZnW |