

# STEREO POWER AMPLIFIER



## OPERATING GUIDE

PTA1000 ★ PTA1400

# SAFETY INSTRUCTIONS



Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be strong enough to create a risk electric shock to a person.



Intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**CAUTION:** To reduce the risk of electric shock, DO NOT ATTEMPT TO OPEN THE AMPLIFIER OR REMOVE THE COVER. There are not user serviceable parts inside-please use a qualified technician for all servicing.

**WARNING:** To prevent electrical shock or fire hazard, this amplifier should not be exposed to rain or moisture. Do not place objects filled with liquid, such as vases, on the amplifier.

When using electrical products, caution should always be used. Please read and keep these safety instructions.

1. Do not use this apparatus near water.
2. Clean only with a dry cloth.
3. Do not block any of the ventilation openings. Install the amplifier in accordance with all manufacture’s instructions.
4. Do not install near any heat source, such as a radiator, heat register, stove or other apparatus (including amplifiers).
5. Do not alter a polarized plug (two blades with one wider than the other) or grounding-type plug (two blades with a third prong), as they provide protection. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
6. Protect the power cord from being damaged, particularly near the plugs, convenience receptacles and the point where they connect to the amplifier.
7. Only use attachments/accessories provided by the manufacture.
8. Use only with a cart, stand tripod, bracket, or table specified by the manufacture, or sold with the amplifier. When a cart is used, use caution when moving to avoid injury from tipping over.

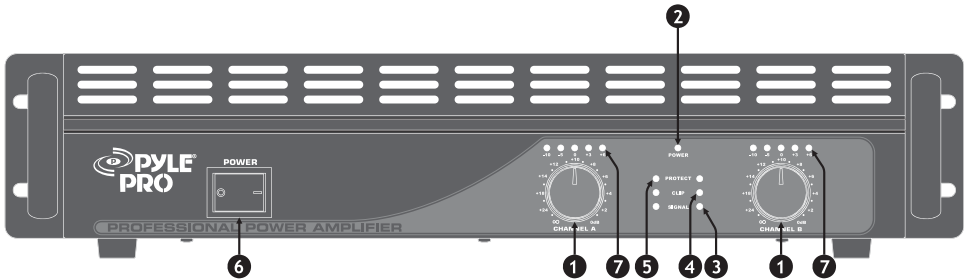
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9. Unplug the amplifier during lightning storms or when unused for long periods of time.
  10. Refer all servicing to qualified service personnel. Servicing is required when the amplifier has been damaged in any way. Some examples-when the power cord or plug is damaged, liquid has been spilled, objects have fallen into the amplifier, the amplifier has been exposed to rain or moisture, it does not operate normally, or has been dropped.
  11. Never break off the ground pin and connect only to a proper power supply type, indicated on the unit. For more information, write for our free booklet "Shock Hazard and grounding".
  12. If this product is to be mounted on an equipment rack, rear support should be provided.
  13. Exposure to extreme high noise levels may cause permanent hearing loss. Individuals vary considerably in regards to noise-induced hearing loss, but nearly everyone will experience some damage if exposed to intense noise for an extended period of time.

The US Government's Occupational and Health Administration (OSHA) has specified the following permissible noise level exposures:

| SOUND LEVEL dBA, SLOW RESPONSE | DURATION PER DAY IN HOURS |
|--------------------------------|---------------------------|
| 8                              | 90                        |
| 6                              | 92                        |
| 4                              | 95                        |
| 3                              | 97                        |
| 2                              | 100                       |
| 1 1/2                          | 102                       |
| 1                              | 105                       |
| 1/2                            | 110                       |
| 1/4 OR LESS                    | 115                       |

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals must be worn when operating this amplification system, in order to prevent permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

# OPERATION



## 1. INPUT GAIN (dB)

These controls are used to adjust the input gain of each channel. They determine how loud each channel of the power amplifier will sound for a given input signal level. The maximum input gain is achieved by turning the control completely clockwise - this setting yields the maximum mixer/system headroom. Turning the control back counter-clockwise will yield lower system noise at the expense of mixer/system headroom. Turning the control fully counter-clockwise turns this setting off. It is always a good idea to power up any new installing at this setting to protect the system loudspeakers.

## 2. POWER LED (POWER)

These indicators illuminate when the AC main power is being supplied to the amp and both channels are operational. If either channel experiences faulty conditions, exceeds safe operating temperature limits, or if the main circuit breaker trips, then both channel power LED will be dark, indicating shutdown. If the BRIDGE mode is selected, the PWR indicator on channel B will remain dark as a positive indication of this mode selection.

## 3. SIGNAL ACTIVITY LEDS (SIGNAL)

These indicators illuminate when the associated channel output signal level exceeds 1 Volt RMS.

## 4. OVERLOAD LEDS (CLIP)

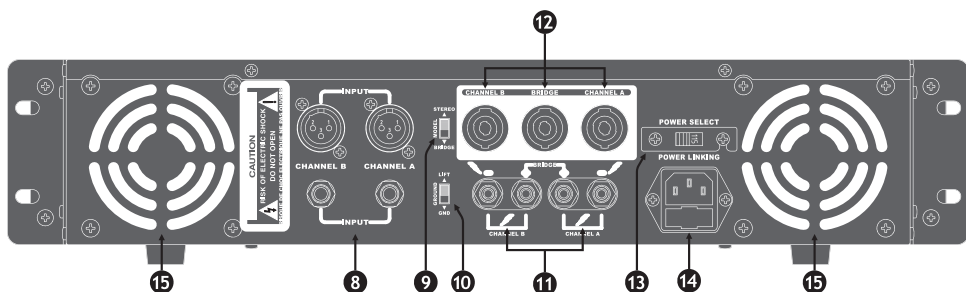
These indicators illuminate when the associated channel has been overloaded.

## 5. FAULT LEDS (FAULT)

These indicators illuminate when the amplifier has just been turned on or if the amplifier has detected a problem, such as overheating or circuit problems.

## 6. POWER SWITCH

This heavy-duty, rocker-type switch turns on the power to the amplifier. When the unit is turned on, there is a three-second delay, which reduces/eliminates the turn-on transients associated with the system equipment connected to the amplifier and protects loudspeakers.



## 7. LEVEL INDICATOR

Channel A and Channel B level LED indicator.

## 8. INPUT

Cannon and input jack connector provide balance or unbalance input mode.

## 9. MODE SWITCH

This switch is used to select STEREO or BRIDGE mode operation.

## 10. GROUND LIFT SWITCH

## 11. BINDING POST OUTPUTS

Shockproof binding posts are provided. For each channel, the outputs are in parallel and the speaker connection cables can be terminated with banana plugs or stripped wires.

## 12. SPEAKER OUTPUT

The amplifier provides (3) four conductor speaker connectors, one for each channel and one for bridge mode.

## 13. POWER SELECT

Switch to choose 110V-120V or 220V-240V power supply.

## 14. POWER INPUT

This is a standard IEC power connector. An AC main cord, which has the appropriate AC plug and rating for the intended operating voltage, is included in the carton.

## 15. FAN GRILL

(Two) 2 speed DC fans supply cool air to the amplifier. The fans switch to high speed automatically when the unit requires additional cooling.

# SPECIFICATIONS

## PTA 1000

### 1. INPUT SPECIFICATIONS:

- Input characteristics:
  - Input impedance balance. 20K ohms
  - Non-balance .....10K ohms
  - Input level ..... +4 dB
- Power Input:
  - Input voltage .....115/230 V (AC)
  - Frequency ..... 50/60 Hz

### 2. OUTPUT SPECIFICATIONS:

- Frequency response:
    - +0, -0.2 dB..20K Hz
  - Power (each channel):
    - 8 OHM ..... 2 x 250 Watts
    - 4 OHM ..... 2 x 500 Watts
- 1000 Watts Total Power

## PTA 1400

### 1. INPUT SPECIFICATIONS:

- Input characteristics:
  - Input impedance balance. 20K ohms
  - Non-balance .....10K ohms
  - Input level ..... +4 dB
- Power Input:
  - Input voltage ..... 115/230 V (AC)
  - Frequency ..... 50/60 Hz

### 2. OUTPUT SPECIFICATIONS:

- Frequency response:
    - +0, -0.2 dB..20K Hz
  - Power (each channel):
    - 8 OHM ..... 2 x 350 Watts
    - 4 OHM ..... 2 x 700 Watts
- 1400 Watts Total Power





PyleAudio.com

718.535.1800 718.236.2400 (fax)  
1600 63rd Street, Brooklyn NY 11204



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