PYLE PRO

PPA200 Amplifier
PPA300 Amplifier
PPA450 Amplifier

Owner's Manual

Your New PYLE PPA series P.A. Amplifier gives you the power and versatility you need in a professional sound system.
The amplifier's wide frequency response makes it suitable for amplifying music or vocal program material. It can be used for live bands, office paging systems, public announcements, or a variety of other installations.

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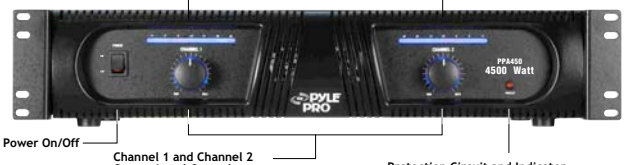
Please read this manual throughly before you attempt to set up and use the amplifier. It contains a range of installation suggestions as well as instructions to ensure safe usage. Installed properly, you can expect years of trouble-free service from this product.

FEATURES AND CONTROLS

FRONT PANEL, PPA200, PPA300, PPA450



Channel 1 and Channel 2 Power LED Display
Indicate the output signal level for each channel.

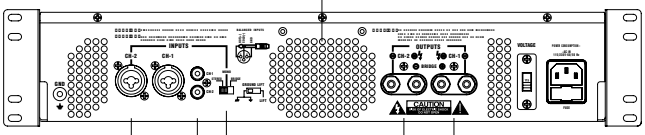
Power On/Off

Channel 1 and Channel 2 Output Level Controls
Lets you adjust the sound levels for each channel.

Protection Circuit and Indicator
The indicator will be illuminated when the amplifier is powered on and at turn-on delay status; the indicator will be turned off after internal outputs are connected. The indicator will also be illuminated when the amplifier has abnormal problems, such as overload or excessive heat.

Fan Cooling
Cooling system is automatically activated whenever amplifier is turned on. This forced air cooling system rapidly exhausts interior heat, reducing operating temperature and aiding performance.

REAR PANEL, PPA200, PPA300, PPA450



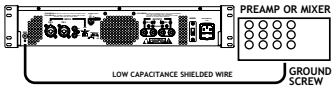
Input Jacks
Let you connect a variety of audio input sources via the balanced (XLR/6.35mm phone jack combinations) or unbalanced (RCA) inputs.

Stereo/Mono Switch
Lets you select conventional stereo operation with a stereo input signal or bridged mono input mode.

Speaker terminals
Permits hookup of A stereo pair of speakers or a bridged speaker via the wire terminals.

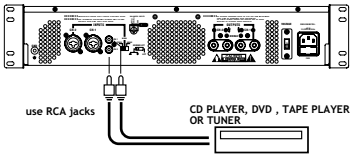
INSTALLATION GUIDELINES

Connecting the GND (Ground) screw terminal
Connecting a mixer or preamplifier may cause excessive noise or hum in the amplifier output. To prevent this, connect one end of a low-capacitance shielded wire to the amplifier's ground screw (on the rear panel). Then connect the other end of this wire to the ground terminal on the mixer or preamplifier enclosure.

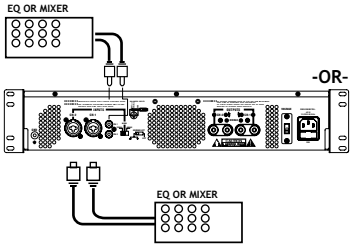


Input connections
These amplifiers accept a broad range of **input sources**, including Compact Disc (CD) players; DVD, Cassette, Reel-to-Reel or other tape players; Radio Tuners; Equalizers; Signal Processors.

Connecting a CD or DVD or tape player or tuner
In a normal installation, one would use the RCA JACKS for connecting a CD player, DVD, tape player or tuner.



Connecting an equalizer or external signal processor
Connect the processor's OUT to the amplifier's INPUT connectors.



Stereo or Mono Inputs
Your PYLE PPA amplifier can be operated in Stereo, Mono or Bridged mode, depending on the input source. If the input signal is mono, slide the Stereo/Mono/Bridged selector switch to MONO and the signal will be routed through both channels. If you wish to run the amplifier in bridged output mode, slide the switch to Bridged.

Speaker connections
You can connect 4 Ohm, 8 Ohm or 16 Ohm speakers to Channel 1 and/or Channel 2 of the amplifier. If you connect two pairs of speakers, be sure to follow these guidelines:

• Speakers which are connected to the same channel are part of a pair, and must be of the same impedance.

• Speakers connected to different channels are NOT part of a pair, and can be of different impedances.

1. Prepare the speaker wire by removing about 1 inch of insulation from the end of the speaker wire you intend to connect to the amplifier. Then twist the exposed wire to secure all the wire strands.

NOTE: Use 16-gauge speaker wire for lengths up to25 feet; 14-gauge wire for lengths over 25 feet. It is recommended that you use the shortest length of wire possible.

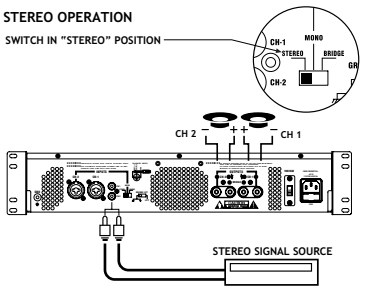
2. Connect the speaker wires to the speaker's positive and negative terminals.

NOTE: Most speaker terminals are either color-coded or have a mark that indicates the terminal's polarity. Usually positive terminals are red or have a plus symbol (+), and negative terminals are black or have a minus symbol (-).

3. Connect the speaker wires to the amplifier's left and right speaker terminals according to the terminal color polarity.

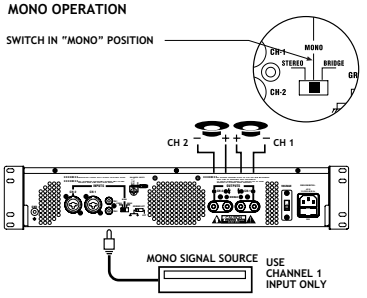
STEREO OPERATION

SWITCH IN "STEREO" POSITION



CAUTION! Do not use balanced and unbalanced inputs simultaneously!!

MONO OPERATION



CAUTION! Do not use balanced and unbalanced inputs simultaneously!!

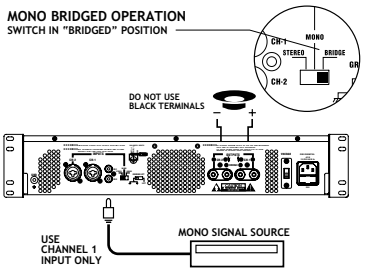
Bridged Mode Operation
This amplifier can operate in a mono bridged output mode, if your speakers can handle the following power output levels:

PPA 200: 2000 watts
PPA 300: 3000 watts
PPA 450: 4500 watts

As shown in the diagram below, connect the speaker's positive (+) to the amplifier's red speakers left (1/2) terminals and negative (-) to red speakers right (1/2) terminals.

The speaker right (+) on the amplifier is used as a negative (-) terminal for a bridged connection.

MONO BRIDGED OPERATION



CAUTION! Do not use balanced and unbalanced inputs simultaneously!!

Connecting to standard AC power
After making all other connections, set the POWER switch to OFF position. Then connect the power cord to a standard AC outlet.

Mounting the amplifier
This amplifier is designed to accept standard rack mounting installations. Two slots on each end of the front panel make it suitable for such an installation.

Tightly secure four mounting screws (not supplied) through these fours slots and into your standard electronics equipment rack.

Turning the amplifier on
1. Turn on the audio input source equipment which is connected to the amplifier INPUT jacks.

2. Set the amplifier's Channel 1 and Channel 2 output level gain controls to the minimum level settings.

3. Push in the power switch to turn the amplifier on.

Using the power LED meters
The meter pointer position indicates the amplifier output power. For ease of reading in dark environments, the meter is illuminated.

Using the Channel 1 and Channel 2 Output Level controls
Rotate output level gain clockwise to increase, or counter-clockwise to decrease the output power. To get the best performance with the least sound distortion, always adjust the output level gain so the meter's pointer does not continuously exceed the extreme right of the meter's scale.

CAUTION: It is possible to overdrive the amplifier by setting output level gain too high, which may cause damage or failure.

About the internal protect circuitry
Special clip circuitry incorporated into your PYLE PPA amplifier's design protects the amplifier and speaker system from being damaged from overdriving power.

Under normal conditions, the amplifier's clip indicator will flicker as the output power momentarily exceeds the level as set by the output level gain selector.

However, under excessive output conditions, the protect indicator lights remain on continuously, alerting you that the special clip circuitry has become active. When this occurs, you should simply reduce the output power level by rotating the Master Volume control counterclockwise.

Amplifier Specifications	**PPA 200**	**PPA 300**	**PPA 450**
Input Impedance, balanced (unbalanced)	20 k-Ohms (10 k-Ohms)	20 k-Ohms (10 k-Ohms)	20 k-Ohms (10 k-Ohms)
Continuous Output Power			
Stereo Mode			
20 Hz to 20 kHz, 8 Ohms	70W x 2	120W x 2	170W x 2
1 kHz, 4 Ohms	100W x 2	160W x 2	220W x 2
Maximum Power, 8 Ohms	110W x 2	170W x 2	230W x 2
Maximum Power, 4 Ohms	130W x 2	200W x 2	260W x 2
Peak Power, 8 Ohms	800W x 2	1200W x 2	1600W x 2
Bridged Mode			
20 Hz to 20 kHz, 8 Ohms	200W x 1	320W x 1	440W x 1
1 kHz, 8 Ohms	200W x 1	320W x 1	440W x 1
Peak Power	2000W x 1	3000W x 1	4500W x 1
THD at rated output power	0.1%	0.1%	0.1%
Frequency Response +/- 3 dB	10 Hz to 50 kHz	10 Hz to 50 kHz	10 Hz to 50 kHz
Input Sensitivity for rated output power	1.0V	1.0V	1.0V
Signal-to-Noise Ratio A-Weighted	100 dB	100 dB	100 dB
Speaker Impedance			
Stereo	4-16 Ohms	4-16 Ohms	4-16 Ohms
Bridged	8-16 Ohms	8-16 Ohms	8-16 Ohms
Power Requirement	120VAC,60Hz/230VAC,50Hz	120VAC,60Hz/230VAC,50Hz	120VAC,60Hz/230VAC,50Hz
Dimensions H x W x D, inches (mm)	3 15/32 x 19 x 10 11/16 (88 x 482 x 271)	3 15/32 x 19 x 10 11/16 (88 x 482 x 271)	3 15/32 x 19 x 10 11/16 (88 x 482 x 271)
Weight, lbs (kg)	16.7 lbs (7.6)	18.5 lbs (8.4)	20 lbs (9.1)