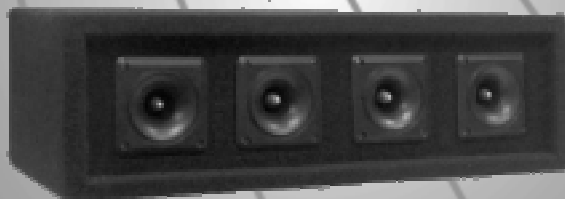




Owner's Manual

**PAHT4
PAHT6
PAHT9**



www.pyleaudio.com

Introduction

Thank you for purchasing this Pyle Pro PAHT Tweeter System. The loudspeaker is designed to provide you years of high performance in any application that you require. Please read this manual carefully to fully maximize the performance of the speaker.

Maintenance and Safety

- Do not expose the speaker to moisture.
- Avoid hot and cold temperature extremes.
- Clean using a damp cloth. Make sure that no moisture contacts the drivers. You can use a hand vacuum to clean the carpet.
- Do not attempt to service the unit. Refer service to a certified Pyle Pro technician.
- This loudspeaker is capable of producing extremely high SPL levels. Use earplugs when necessary.

Features

The PAHT series features high-level drivers and rugged components and is designed for high-performance applications.

The cabinet features heavy-duty construction with reinforced corners. It is covered with a black-carpeted finish that will stand up to years of tour duty.

The piezo tweeters produce crystal clear highs and will add that special sparkle to your sound system. The PAHT9 adds a compression driver that complements the piezo drivers in producing the high range frequencies and extends the frequency response down to 1 kHz.

The integrated passive crossover network is assembled using quality components and functions as a high pass filter.



PAHT9



PAHT4/PAHT6

Connections

The PAHT speakers have “Quick Connect” speaker terminals, which accommodate wire leads.

Make certain that the wires you are using are at least 14 gauge unshielded speaker cable (the lower the number, the thicker the wire). Do not use shielded “instrument” cables.

Amplifier Requirements

Check the product specifications (page 4) to see the power handling for your model. There are a couple of considerations to keep in mind when choosing an amplifier to drive your PAHT series speaker. While it is true that an amplifier with a higher power rating can damage the drivers, underpowering can be even more dangerous. When an amplifier is overdriven and starts distorting, it generates transient frequencies that are much louder than the program material. These wayward frequencies could damage your speaker. A proper match is an amplifier which could drive the speaker up to the cabinet’s RMS rating, without exceeding the amplifier’s own RMS level.

Operation

When powering on your equipment, make sure the volume level on the amplifier is turned all the way down. This is to avoid the “popping” noise, which could damage your speaker.

High frequencies are unidirectional while low frequencies are omnidirectional. Being that this is a tweeter system, it is important that the speaker be placed so that the high frequencies reach the intended listeners properly. Make certain that no person or object could come to interrupt the line-of-site between the loudspeaker and the audience.

When using more than one loudspeaker, you have to account for phase alignment. When the speakers are close together this is not usually an issue. However, when they are far apart, the sound from one speaker may reach the ear a fraction of a second before the other. This will cause certain frequencies to cancel out, altering the sound. To avoid this, you may have to use a delay processor to align the sound from the speakers.

Troubleshooting

No Sound:

- ✓ Check connections
- ✓ Try a different speaker cable
- ✓ Check levels on amplifier
- ✓ Confirm amplifier is getting a signal (check signal LED, or use headphone output)

Intermittent Output:

- ✓ Check connections
- ✓ Try a different speaker cable

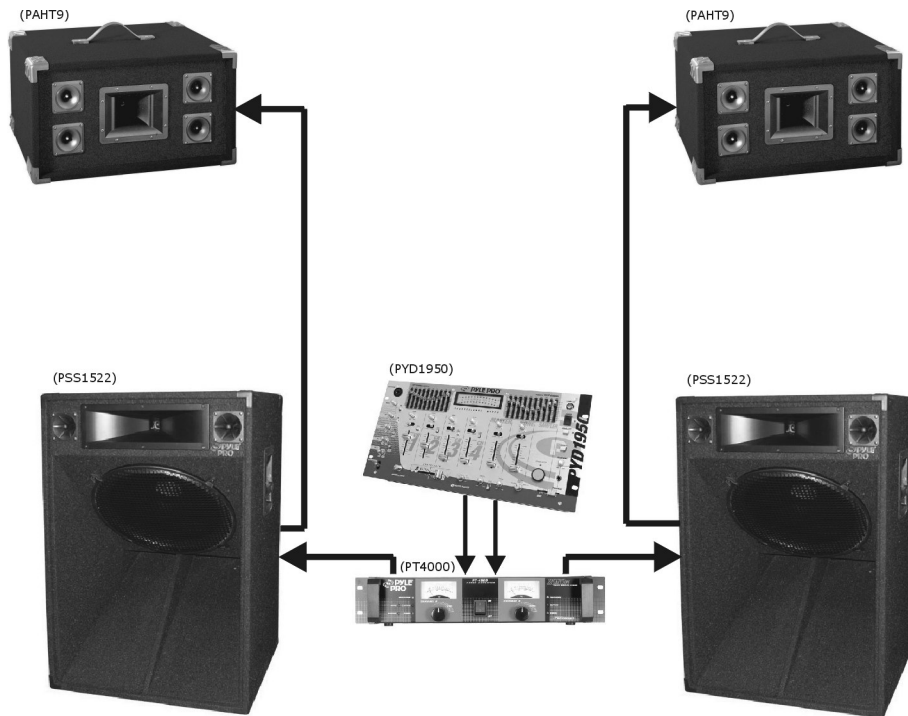
Distorted Sound:

- ✓ Check if the amplifier is overdriven. If it is, you will have to turn the level down.
- ✓ Make sure you are not exceeding the RMS rating of your speaker.

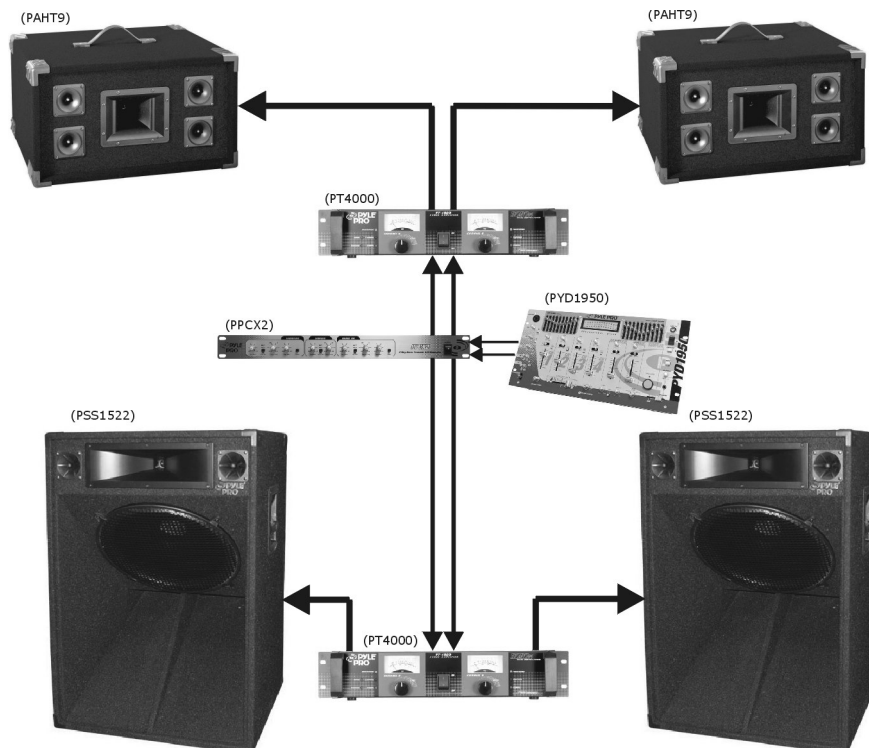
Specifications

Model	Piezo Tweeters	Compression Driver	Frequency Range	RMS	Peak	Sensitivity (1w/1m)	Connections	Ω	Dimensions	Weight
PAHT4	Four (4) 3" Piezo Drivers	N/A	4kHz-27 kHz	150W	300W	97 dB	"Quick Connect" (Wire Lead)	8Ω	W = 20.84" D = 9.85" H = 6"	11 lb.
PAHT6	Six (6) 2.5" Piezo Drivers	N/A	4kHz-27 kHz	100W	200W	97 dB	"Quick Connect" (Wire Lead)	8Ω	W = 19.5" D = 10" H = 5.5"	9 lb.
PAHT9	Four (4) 2.5" Piezo Drivers	7.5" x 6.125" Titanium Super Horn Midrange/Tweeter	1kHz-27 kHz	150W	300W	94 dB	"Quick Connect" (Wire Lead)	8Ω	W = 22.5" D = 16.5" H = 12.5"	30 lb.

Parallel Setup



Crossover Setup



Recommended Accessories

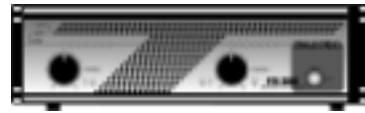
PT Series Amplifiers

- Professional High-Power amplifiers
- 8 Models to choose from
- All models rack-mountable in standard ISO 19" rack



PZR Series Amplifiers

- Professional High-Power amplifiers
- 3 Models to choose from
- All models rack-mountable in standard ISO 19" rack



PPCX3

- 3-Way Stereo Crossover
- Separate Subwoofer output
- XLR Inputs XLR Outputs
- Rack Mountable



PPCX2

- 2-Way Stereo Crossover
- Separate Subwoofer output
- XLR Inputs 1/4" Outputs
- Rack Mountable



Check out these and other accessories at www.pyleaudio.com

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