



# Owner's Manual

**PSS1542**

**PSS1842**



[www.pyleaudio.com](http://www.pyleaudio.com)

## **Introduction**

Thank you for purchasing this Pyle Pro PSS series speaker. 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 PSS 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 integrated handles have been carefully selected for their ergonomic design and durability. There are heavy-duty caster wheels for easy mobility.

Both models are loaded with two (2) premium Kapton voice coil woofers and exhibit excellent bass response. The compression driver provides warm midrange reproduction and crystal clear highs and is complemented by two piezo tweeters.

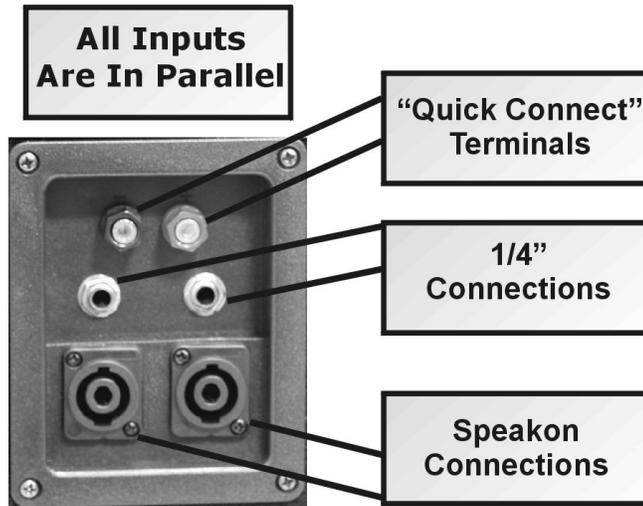
The integrated passive crossover network



is assembled using quality components and efficiently directs the frequencies to the proper drivers.

## Connections

Your PSS series speaker has an extremely flexible connection panel. There are two Speakon jacks as well as two 1/4" jacks. You can also hookup your speaker cabinet using the "Quick Connect" speaker terminals, which accommodate either wire leads or a banana plug. The jacks are wired in parallel, which allows you to daisy chain additional speakers. Thus you can use one amplifier channel to power multiple speakers.



Make certain that the wires you are using are at least 12 gauge unshielded speaker cable (the lower the number, the thicker the wire). Do not use shielded "instrument" cables.

➡ ***Hooking speakers up in parallel decreases the overall impedance, placing a greater load on the amplifier. Check your amplifier's specifications to ensure that you are not overloading the channel.***



**CAUTION: DO NOT USE MORE THAN ONE JACK AS AN AMPLIFIER INPUT. DOING SO WILL DAMAGE THE SPEAKER!**

## Amplifier Requirements

Check the product specifications (page 5) 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 PSS series speaker. While it is true that an amplifier with a higher power rating can damage the drivers, under-

powering 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.

The placement of speakers can be a bit tricky. Besides for the practical considerations, there are acoustic issues as well. Avoid placing the speaker in a corner, as this will cause the low frequencies to sound "muddy". Similarly, but to a lesser degree, placing the speaker directly against the wall will exaggerate the low frequencies. You should therefore try to place your speaker so that it is a few feet away from the wall.

High frequencies are unidirectional while low frequencies are omnidirectional. Being that this is a full range enclosure, 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, resulting in a hollow 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

### Weak Bass:

- ✓ Check the polarity of the speaker connection. It may be reversed.
- ✓ Listen with headphones to confirm the amplifier is being sent a good signal.

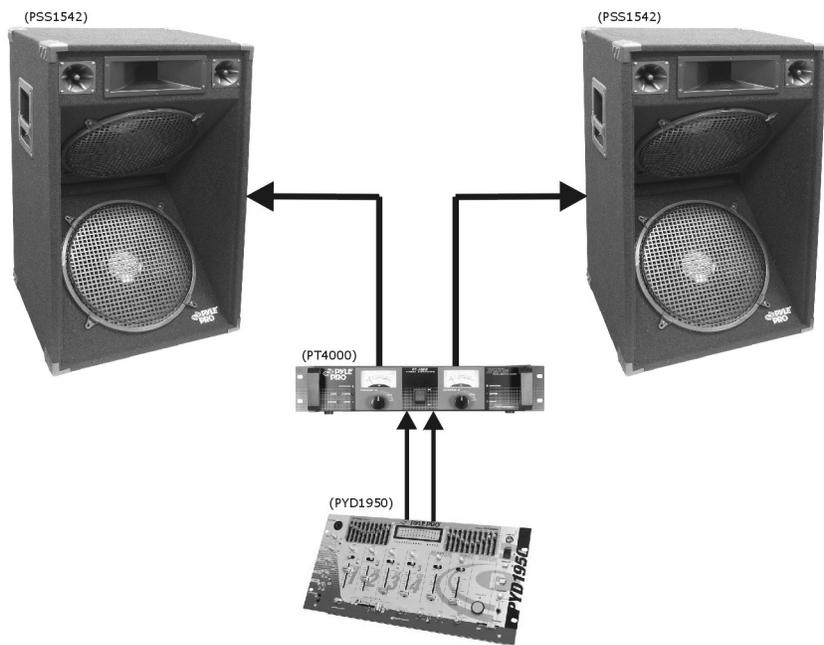
### Distorted Sound:

- ✓ 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.

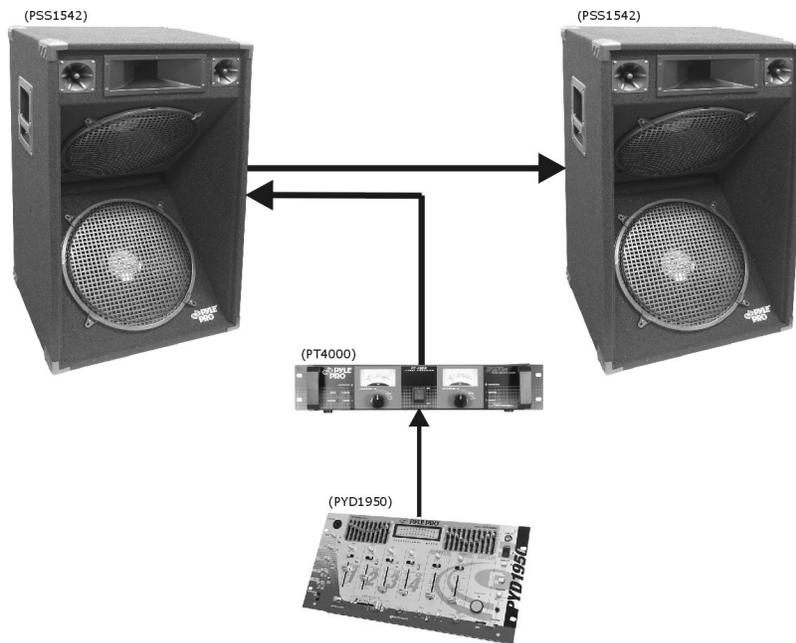
## Specifications

Model	Woofers	Compression Driver	Piezo Tweeters	Frequency Range	RMS	Peak	Sensitivity (1w/1m)	Connections	$\Omega$	Dimensions	Weight
PSS1542	Two (2) 15" Kapton Voice Coil	4" x 10" Titanium Super Horn Midrange/Tweeter	Two (2) 3" Piezo Tweeters	25-20 kHz	700W	1400W	103 dB	Speakon (2) ¼" (2) "Quick Connect" (Wire Lead & Banana)	8 $\Omega$	W = 20" D = 19.6" H = 43.5"	85 lb.
PSS1842	Two (2) 18" Kapton Voice Coil	5" x 15" Titanium Super Horn Midrange/Tweeter	Two (2) 3" Piezo Tweeters	20-20 kHz	900W	1800W	105 dB	Speakon (2) ¼" (2) "Quick Connect" (Wire Lead & Banana)	8 $\Omega$	W = 24.8" D = 23.6" H = 50.6"	100 lb.

## Typical Setup



## Parallel Setup



## Recommended Accessories



### **PPJJ30**

- 30ft. 12 Gauge
- Professional Speaker Cable
- 1/4" to 1/4"

### **PPJJ15**

- Same as above 15ft.



### **PPSS30**

- 30ft. 12 Gauge
- Professional Speaker Cable
- Speakon to Speakon

### **PPSS15**

- Same as above 15ft



### **PPSJ30**

- 30ft. 12 Gauge Professional
- Speaker Cable
- Speakon to 1/4"

### **PPSJ15**

- Same as above 15ft.

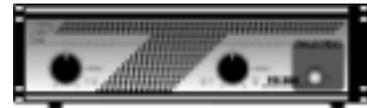
## **PT Series Amplifiers**

- 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



Check out these and other accessories at [www.pyleaudio.com](http://www.pyleaudio.com)