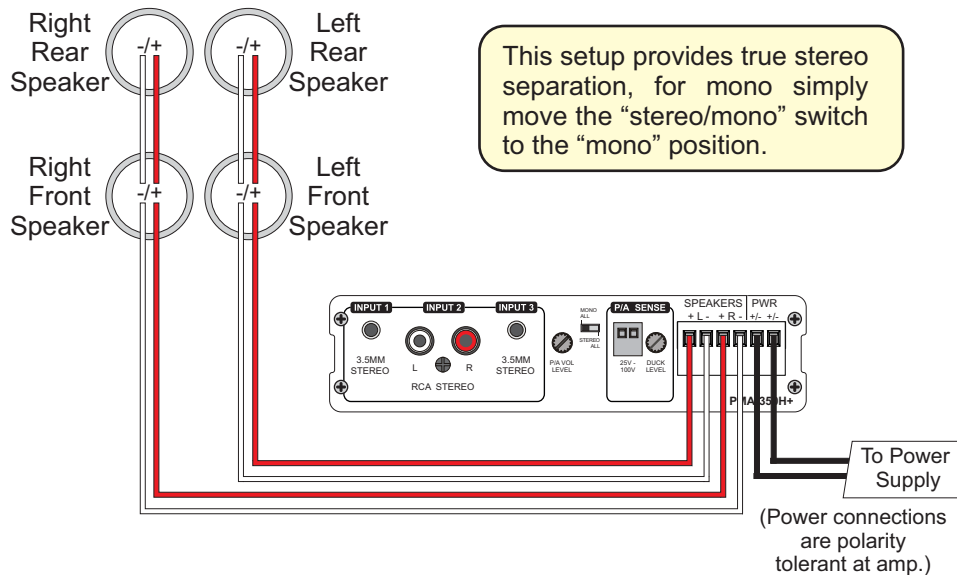


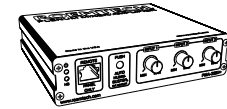
**ROEMTECH®**  
**Instruction Manual**  
**PMA-350H+**

**Typical Stereo Wiring Diagram**



**List of Contents**

1. Plenum Rated Stereo Mixer/Amplifier - 50 watts
2. Regulated 60 watt Power Supply (Not Plenum Rated)
3. Universal 5' Power Cord (Not Plenum Rated)
4. Pair of Wire Nuts
5. Two Detachable Terminal Blocks
6. Mounting bracket and screws



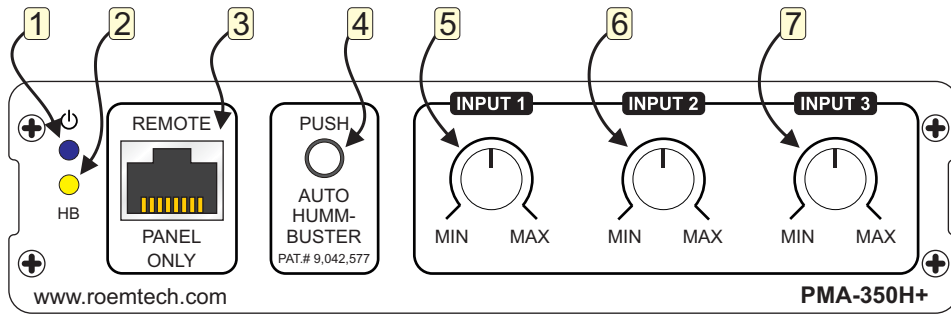
(2 Traditional Screw Type)



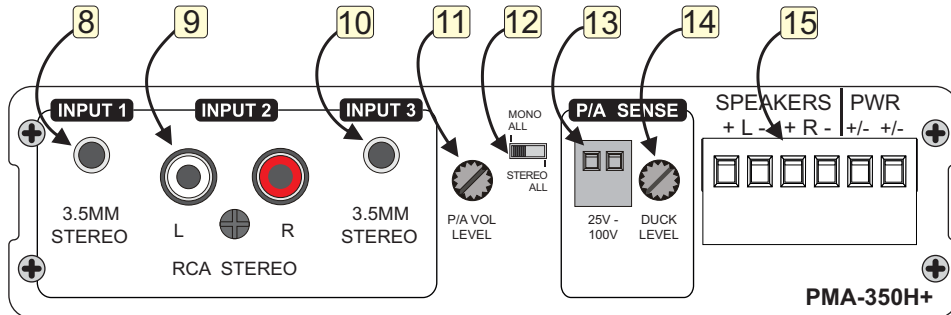
**Auto HummBuster®**  
**How it Works**  
**Patent #9,042,577**

*Auto HummBuster* technology is a state of the art troubleshooting system invented in the research labs of Roemtech outside of Dallas, Texas. Until now, when there was an unwanted hum or buzz in an audio system, it required a technician to come in and analyze the sound system. Typically, this required a modification of the existing setup, sometimes leading to many more hours of work and untold expenses. This sort of scenario is not uncommon. With Roemtech's new Auto HummBuster technology, unwanted noise issues can be resolved with the simple push of a button. When the Auto HummBuster button is pushed, the PMA-350H+'s internal circuitry intelligently analyzes each incoming audio signal. It next determines which audio source is guilty of generating the noise, then it safely and properly gets rid of it. Due to sophisticated and proprietary circuitry pioneered by Roemtech, it does all of this while leaving the original audio content pure and unaffected. The Auto HummBuster feature should be operated during a time when the source material has been muted or is not being played but the sources have all been plugged in. It can then make a decision that is more accurate. For more information about Roemtech innovation and other Roemtech products, visit [www.roemtech.com](http://www.roemtech.com).

## Features



## Front Panel



## Rear Panel

### Internal Surge Protection

At Roemtech, we have taken the unusual step of putting surge protection on every single input going into the PMA-350H+. Each input is surge protected to 10,000V for protection against momentary static discharge. This ensures that you will get many years of trouble-free performance from your amplifier.

## Features Explained

**1 Power Light:** This light indicates three possible conditions for the amplifier. 1). Steady on indicates amplifier is powered up and internal processor is functioning. 2). One short blink each second indicates that amplifier is in sleep mode (see Sleep Mode below). 3). Fast blinking indicates that the PA Override is currently engaged (see "PA Sense" below for more information).

**2 Auto HummBuster Light:** This light flashes when the Auto HummBuster is analyzing the inputs for audio noise.

**3 Remote Volume Control Jack:** This jack can **ONLY** be attached to a ROEMTECH wall volume control. The jack supplies 5V over one of the wires and uses it to be controlled by a 10K potentiometer. In addition, three of the wires can be used for an analog line level stereo signal that gets mixed in with Input 2 and is also attenuated by its volume knob. For more information regarding this feature, contact Roemtech technical support.

**4 Auto HummBuster Button:** This button initiates the Auto HummBuster feature. For more information on this feature, see the section "Auto HummBuster - How it Works". This button also doubles as an EQ preset. If this button is held down for two seconds, the light will flash once, twice or three times. If the light flashes once, this indicates that the internal EQ is flat, if it flashes twice, this indicates the internal EQ has been set to slightly enhance low frequencies. If the light flashes three times, this indicates that the EQ has been set to enhance low frequencies even more and also enhance higher frequencies above 10kHz.

**5 Input 1 Volume Control:** Sets attenuation level for INPUT 1 input (stereo 3.5mm input).

**6 Input 2 Volume Control:** Sets attenuation level for INPUT 2 input (stereo 3.5mm input).

**7 Input 3 Volume Control:** Sets attenuation level for INPUT 3 input (stereo 3.5mm input).

**8 Input 1:** This input is a stereo 3.5mm jack that accepts most unbalanced stereo signals.

**9 Input 2:** This input is a stereo RCA jack that accepts most unbalanced stereo signals.

**10 Input 3:** This input is a stereo 3.5mm jack that accepts most unbalanced stereo signals.

**11 P/A Vol Level:** Sets attenuation level of the P/A audio that gets passed through.

**12 Mono All - Stereo All:** This switch determines whether the output will be separated stereo or combined mono. In the mono mode, all speakers output the same exact audio. In stereo mode, you get true stereo separation for left and right channels as indicated at the terminal block.

**13 PA Sense:** This connection should be made to the public address or alarm system via a two conductor wire. Polarity is not important. The impedance of this input is in the mega-Ohm range and will not create a detectable load on any system that it is tied to. This input is designed to automatically detect and adapt to any signal it sees from 25Vrms to 100Vrms (standard high-level distributed audio) without issue.

**14 Duck Level:** This feature allows you to control the sensitivity of the PA ducking threshold. For example: If there is some constant noise on the PA system that is tied to the amplifier, then the sensitivity can be decreased by turning the control clockwise until the noise no longer triggers the PA override function.

**15 Speakers & Sleep Mode:** If the amplifier does not detect any audio for 20 minutes, it will shut down most of its' circuitry so that the power draw is reduced below 50 milliamps. As soon as the amplifier detects audio, it will instantly come out of sleep mode. You will know if the amplifier is in sleep mode when the blue power light flashes once every second.