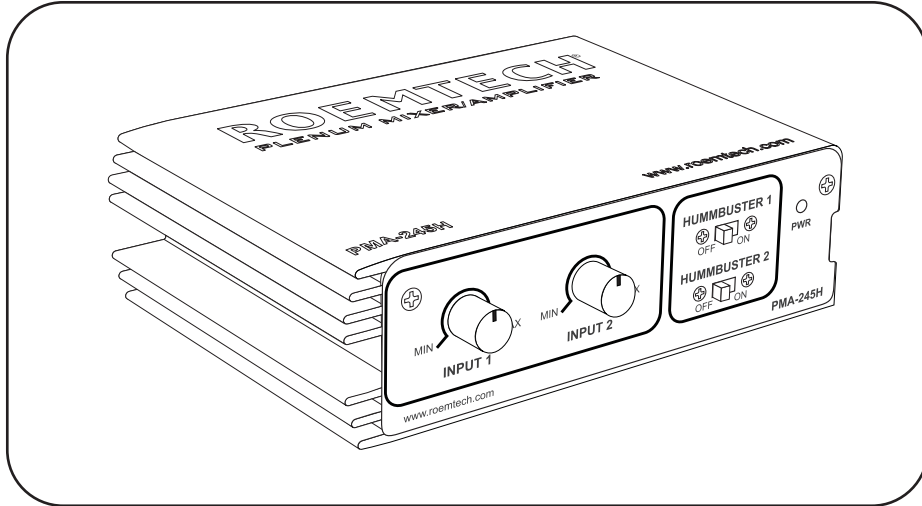


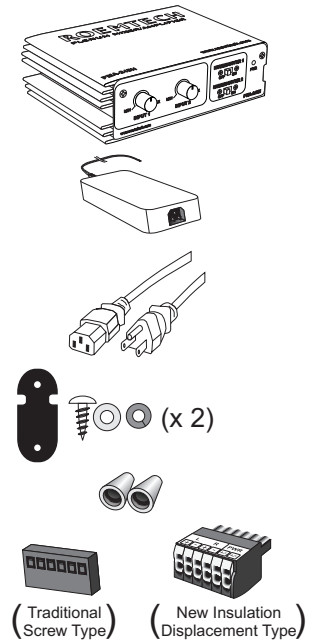
## Instruction Manual PMA-245H



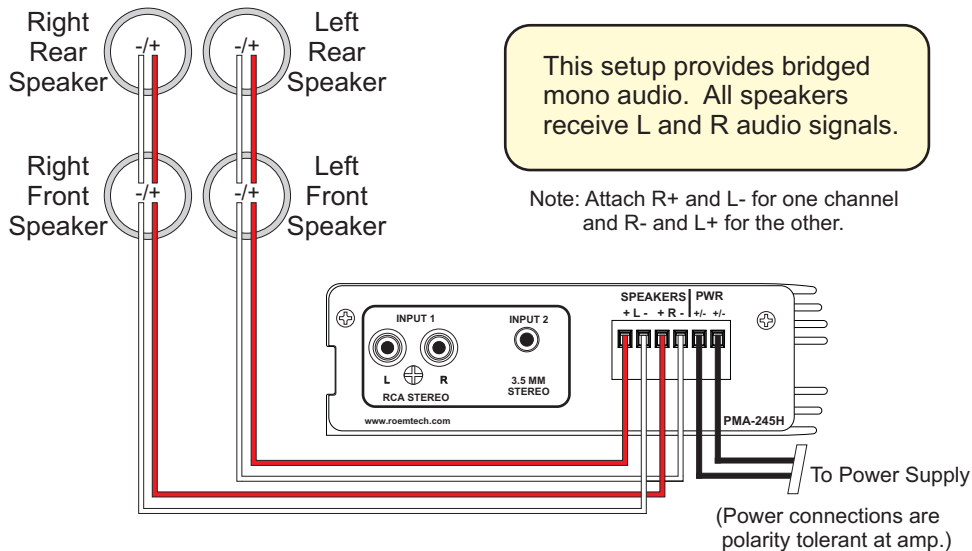
www.roemtech.com

## List of Contents

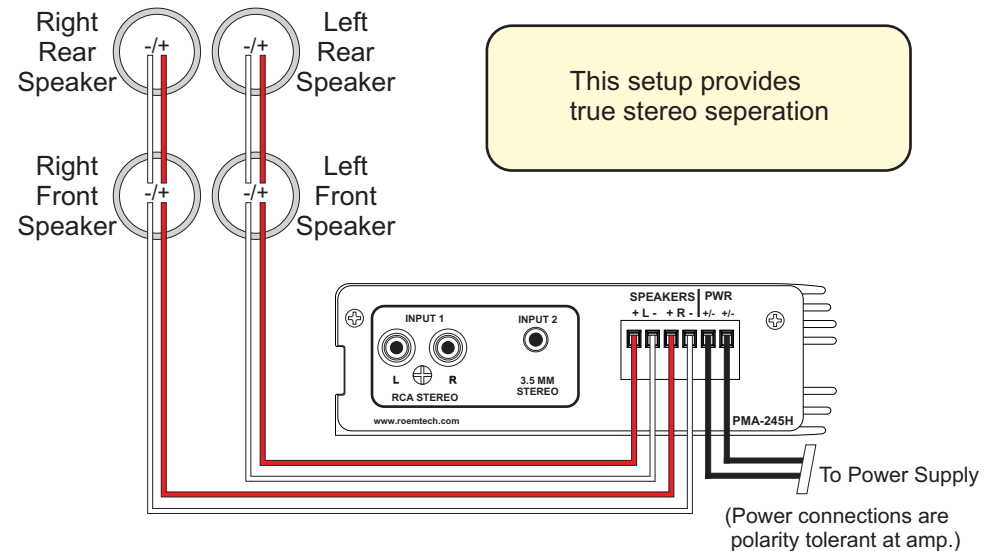
1. Plenum Rated Stereo Mixer/Amplifier - 45watts
2. Regulated 60watt Power Supply (Not Plenum Rated)
3. Universal 5' Power Cord (Not Plenum Rated)
4. Mounting Hardware
5. Pair of Wire Nuts
6. Two Detachable Terminal Blocks



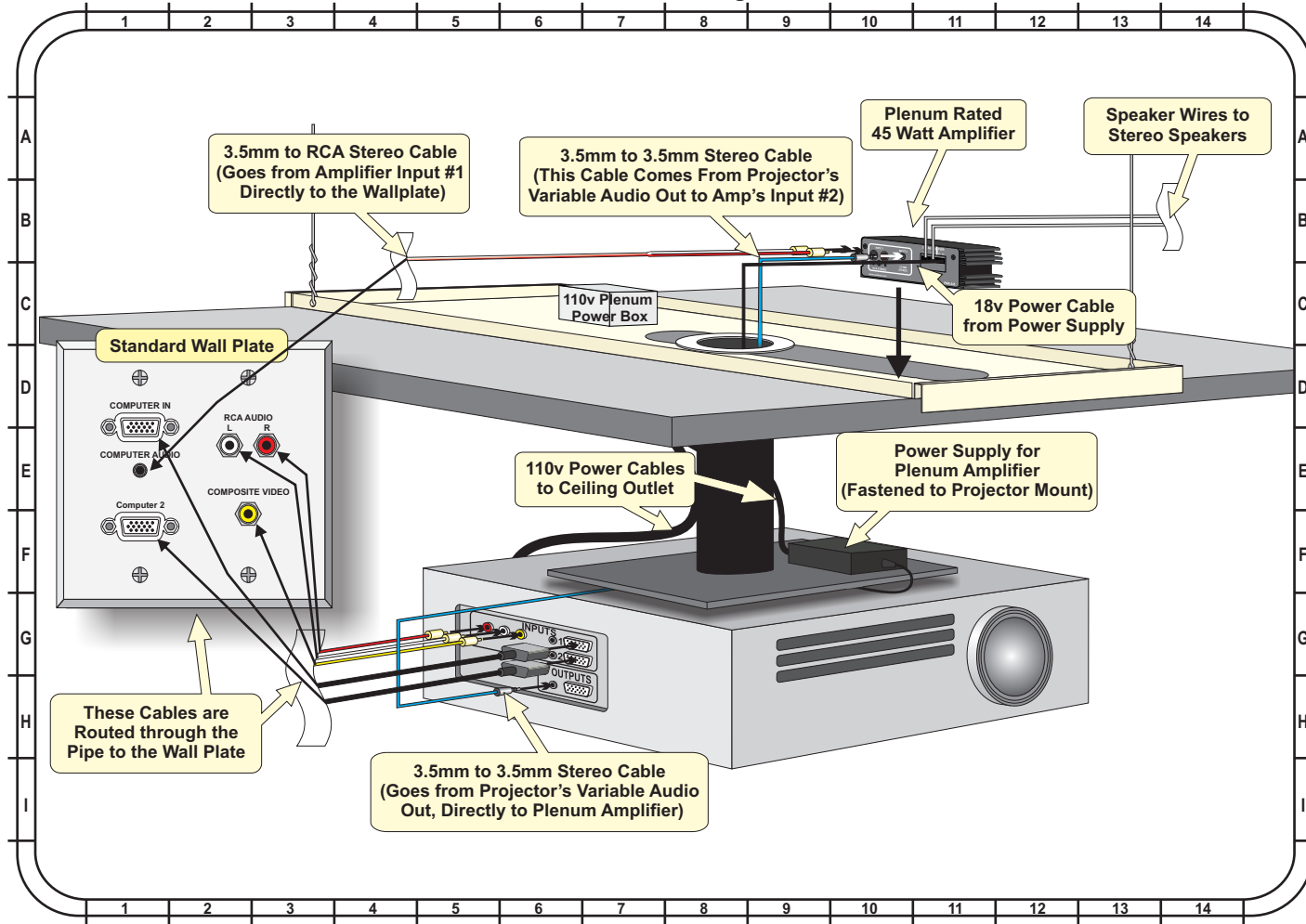
## Typical Bridged Mono Wiring Diagram



## Typical Stereo Wiring Diagram



# Standard Classroom Projector Installation



## Frequently Asked Questions:

Q: Why are there two connectors?

A: The insulation displacement connector is a new item for Roemtech. Until we have had months of field input that this connector is the best choice for our customers, we will continue to supply both.

Q: Is the power supply plenum rated?

A: No, only the amplifier is plenum rated, to maintain plenum approval, the power supply should be mounted below the plenum area as shown in the picture.

Q: What are the wire nuts for?

A: In strict plenum installations, the wire nuts can be used to make a splice from the power supplies 18V (non plenum rated) wire to plenum rated speaker wire (18AWG or thicker). The splice typically resides in the pipe.

Q: What ohm level can the amplifier tolerate?

A: The amplifier is designed to easily support 4 ohm loads. This means that you can attach as many as four, 16 ohm speakers per channel for a total of eight speakers per amp, or two 8 ohm speakers per channel for a total of 4 speakers.

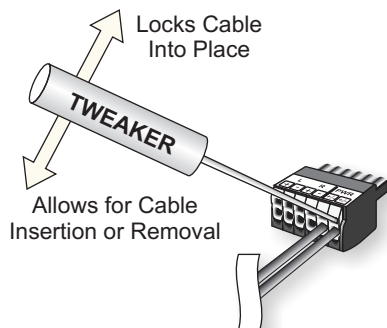
Q: Why are there +/- marks over both power connections?

A: The +/- marks are to indicate that the amplifier is polarity tolerant. In other words, it is impossible for the power supply to be hooked up backwards. In addition, since the power supply is regulated it will shut down if it is overloaded or shorted out. Once the overload is removed, the power supply will resume its normal operation.

Q: Will the amplifier overheat if it is put in the plenum area in hot climates?

A: No, the amplifier is specifically designed for high-temperature applications. The massive heat-sink dissipates heat very well, even in the most extreme conditions. However, you should use care not to cover the amplifier with insulation.

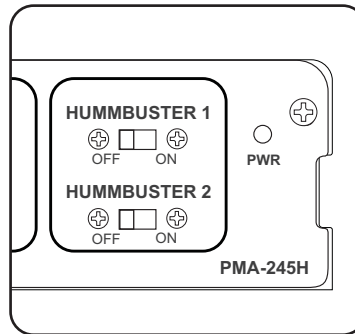
## New RapidLock™ Connector



### RapidLock Instructions

1. DO NOT strip wire. This is not optional. If wire is striped, cut off exposed copper.
2. Make sure levers are in the "open" position. (The RapidLock connector typically comes with the levers flipped out or "open".)
3. Each lever has two holes, one is square and one is round. Insert the cable into the round hole while inserting the tweaker into the square hole. Once both are fully inserted, pull the tweaker so that the lever is completely closed.

## New HummBuster® Filters



### HummBuster Instructions

1. Start with the switches in the "OFF" position. This is the standard state of most amplifiers. If the filters are turned "ON" when they are not needed - sometimes it can cause a humming sound.
2. If a humming sound is encountered in the audio system switch in only one filter at a time. If there is no change, switch the filter back off and try the second filter. This will remedy almost all audio humming or buzzing issues. If neither filter solves the issue, you may have a poorly shielded cable that needs to be fixed or replaced.