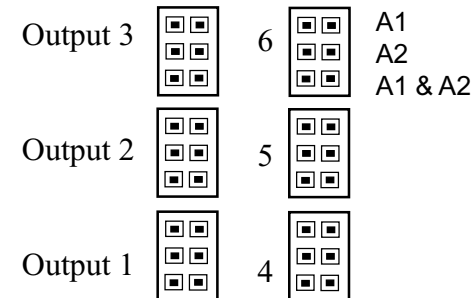


# OUTPUT CONFIGURATIONS

Place Red Push-On Jumpers On Desired Configuration Pins.

Units are shipped from factory with all outputs in "A1 & A2" configuration.



## Notes:

# PROTECH®

1/06

INSTALLATION & OPERATION  
MANUAL  
AUDIO DISTRIBUTION AMPLIFIERS

MODELS COVERED

5126	5226
5126T	5226T

All Inputs and Outputs Individually Adjustable.



Electronic or Transformer Balanced Inputs and Outputs.

The Models 5126, 5126T, 5226, 5226T audio distribution amplifiers are designed for use in professional audio systems.

The application of the ADA's is found in public address systems, communication systems, background music systems, recording systems, and broadcast systems.

Each of the four models offers two (2) inputs and six (6) output configurations. The 5226 and 5226T offer two identical 2x6 sections.

The Models 5126 and 5226 have state-of-the-art electronically balanced inputs and outputs. The 5126T and 5226T have transformer isolated inputs and outputs.

The #1 input gain stage on all four models is adjustable from -15 to 20dB of gain. The input two gain stage is adjustable from 0 to 20 dB of gain. This input serves as a reference level for unity gain, when turned completely down. Each of the outputs has independently adjustable gain, from infinity to 20dB of gain. Adjusting the input stage level will effect all of the output level settings in that section. The 20dB of gain available at the input stage should be used before the gain of the output section is utilized.

Each output may be strapped, via an internal push-on jumper, to provide the input 1 signal, or, the input two signal, or, the sum of input 1 and 2. As shipped from the factory, all outputs are strapped to provide both the 1 and two inputs. The power supply section of all four models has been designed to achieve the lowest possible noise and hum specifications. The AC transformer is a UL recognized wall mount unit. Designing the transformer in this manner eliminates the AC field inside the chassis, and results in greatly improved noise and hum figures.

The power supply section also includes a rear mounted fuseholder, a front mounted power on indicator (green LED), and a ground lift switch. The switch is used to disconnect the audio amplifier ground from earth ground, if necessary. In almost all systems, the units will achieve best results with the ground lift switch in the ON position.

Each of the four models requires only a single unit of vertical rack space. The choice of single or dual units provides extreme circuit density in a minimum of rack space.

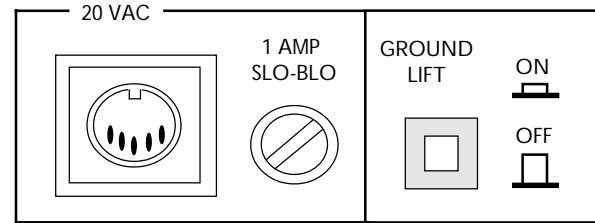
# INSTALLATION

The Toolbox Series Audio Distribution Amplifiers from Protech Audio are designed to be mounted in a standard 19 inch wide EIA rack. Each of the four models requires 1.75 inches of vertical rack space. The steps for installing the units are as follows;

If the installation requires that some or all outputs do not need the signal from both inputs 1 & 2, remove the 8 cover screws and move the jumpers to the appropriate position (See page 4). Mount unit in rack, using four machine screws of sufficient tensile strength to support unit properly.

Terminate all audio inputs and outputs, using double conductor shielded cable, as shown on facing page. The diagram on the facing page shows balanced line configurations. For unbalanced lines terminate line HI to DA HI, and line LO to DA SH connection;

The wall mount power transformer plugs into the rear power connector marked 16VAC. Plug transformer jack into chassis connector first. Then plug wall transformer into three prong AC outlet.



Make sure ground lift switch is in the on position.

Check front panel power indicator (green LED) for proper illumination.

## ALIGNMENT

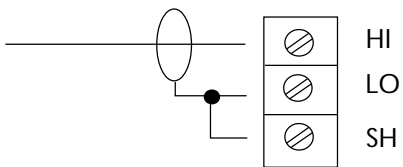
All four models have been shipped from the factory adjusted for unity gain. Input 1 is adjustable from -15 to +15dB of gain. Input 2 is adjustable from 0 to 15dB of gain, and serves as a reference level for unity gain, when turned completely down.

**CAUTION: DO NOT USE THE 20dB OF GAIN IN THE OUTPUT STAGES UNTIL THE GAIN IN THE INPUT STAGE IS COMPLETELY EXHAUSTED. DOING SO WILL RESULT IN REDUCED SIGNAL - TO NOISE RATION.**

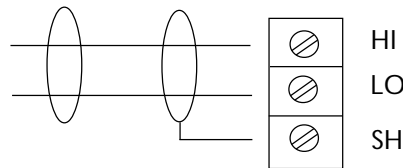
Each output trimpot is individually adjustable from infinity (completely off) to 20dB of gain. The output gain trimpot should not be used to adjust the output setting until the gain at the inputs has been exhausted.

Adjusting the individual output gain trimpot will not effect the any other output level setting.

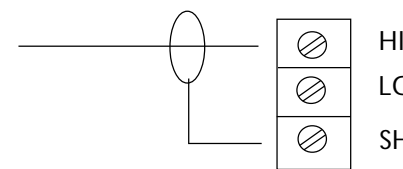
### UNBALANCED INPUT CONNECTION



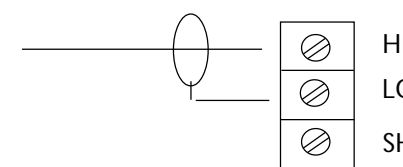
### BALANCED INPUT CONNECTION



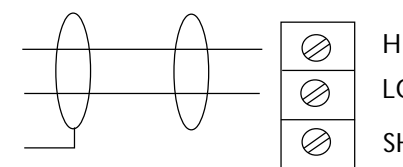
### UNBALANCED OUTPUT CONNECTION (Electronic)



### UNBALANCED OUTPUT CONNECTION (Transformer)



### BALANCED OUTPUT CONNECTION

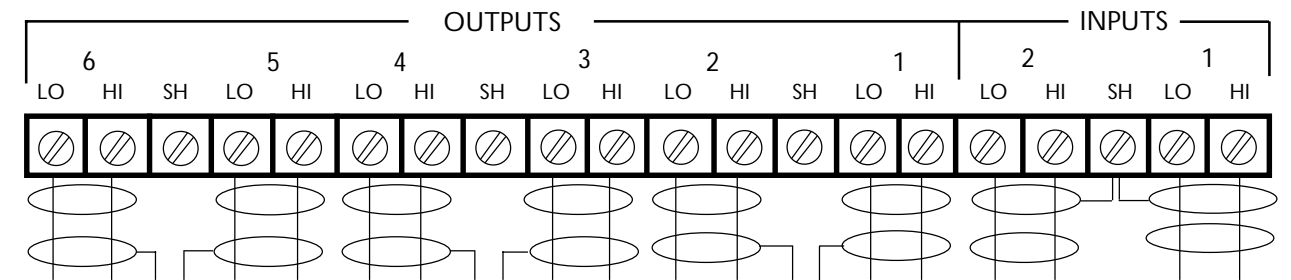


**PROTECH AUDIO**

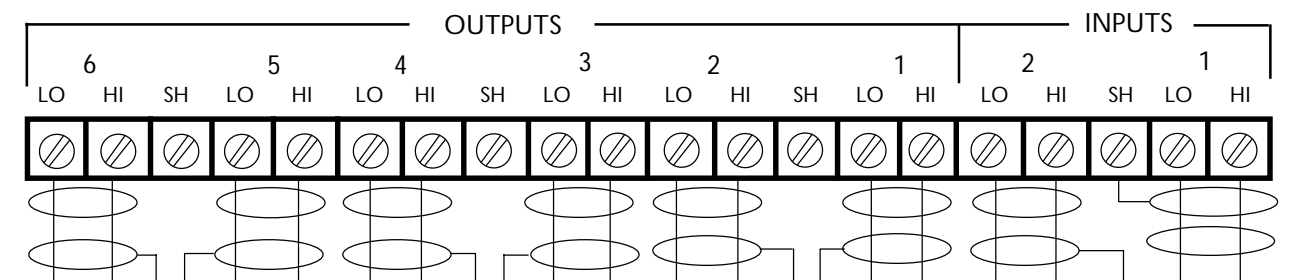
TOOLBOX SERIES

MODELS 5126, 5226, 5126T, 5226T  
CONNECTOR & LAYOUT DRAWING

### OUTPUT SECTION A



### OUTPUT SECTION B



### FRONT VIEW



### REAR VIEW

