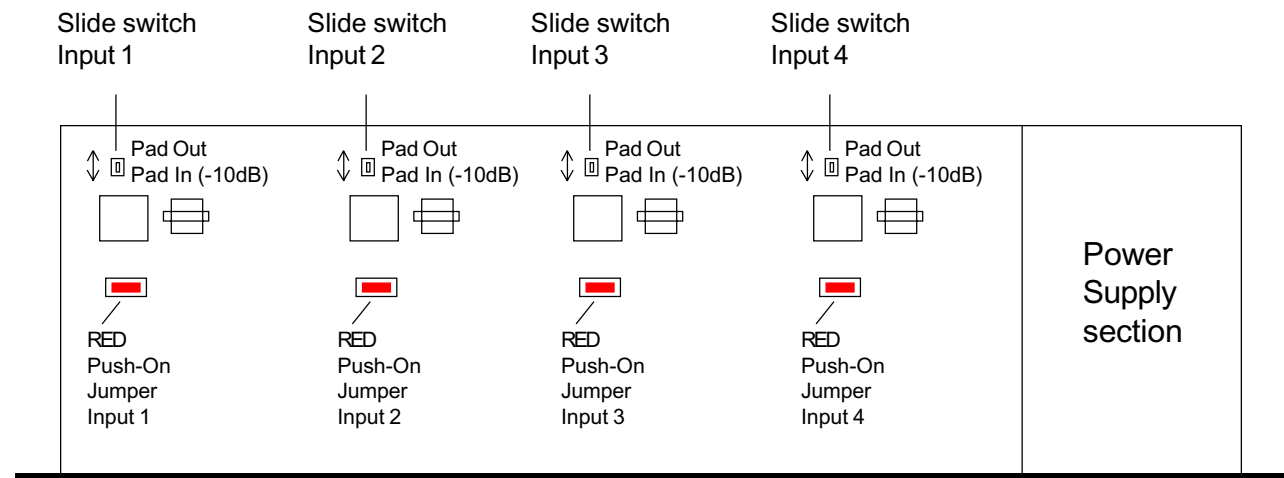


**Location of pad slide switches and RED push-on gain jumpers.**



Top View With Cover Removed

Notes:

**FEATURES**

- Transformer Balanced Inputs.
- Transformer Balanced Outputs.



- Adjustable Mixing Level(s).
- Individual Mutes For Each Output
- Switchable 10dB Pad and 10dB Gain Setting
- External UL Listed Power Transformer For Lowest Possible Noise.

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

The Model 5044 Matrix Mixer is designed to provide the system designer, and audio contractor, with a matrix mixer that provides adjustable output levels for each line level input signal to each output. The 5044 will accommodate up to 4 inputs and provides 4 separate outputs each with its own custom signal mix.

Each input is balanced bridging transformer isolated. Each output is low impedance transformer isolated capable of driving loads as low as 600 ohms.

Each input level is adjustable from off to +25dBv to each output, relative to the input signal level. Adjustment of an input level to any output will not effect levels adjusted to other outputs.

Each output contains an externally controlled mute switch for each input signal to allow mixes to be changed from other control devices.

Typical mixes can include any or all input signals.

The Model 5044 can also be used as a 4 channel line amplifier.

Actual installations include such facilities as factories, convention centers, racetracks, arenas, corporate communication centers, airports, mass transit systems, and broadcast centers.

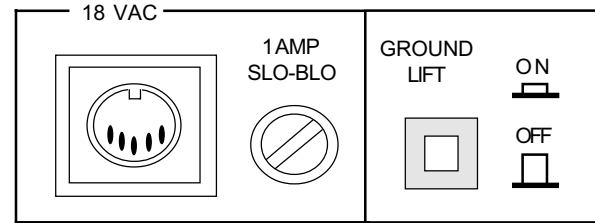
Every circuit in the Toolbox Series has been meticulously engineered, to achieve maximum reliability. The power supply section of all Tool Box Series audio devices, incorporates a UL recognized power transformer. By mounting the AC power transformer outside of the audio chassis, the Toolbox Series audio devices achieve the lowest possible hum specification. Fusing is accomplished thru the use of a standard, easily available 3AG size Slo-Blo fuse, with the fuseholder mounted on the rear of the chassis. A ground lift switch is mounted on the rear of the chassis, to provide additional installation flexibility.

# INSTALLATION

The Model 5044 Matrix Mixer from Protech Audio is designed to be mounted in a standard 19 inch wide EIA rack. Each unit requires 1.75 inches of vertical rack space. The steps for installing the unit are as follows;

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 as shown below

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

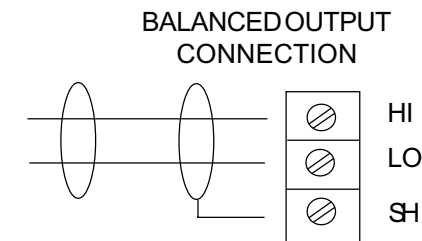
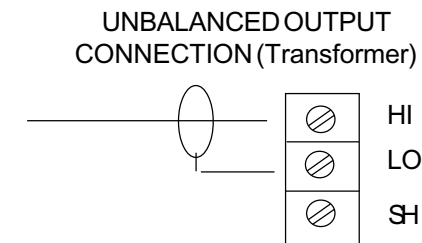
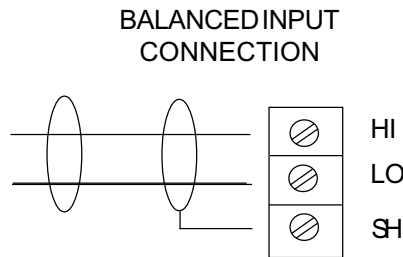
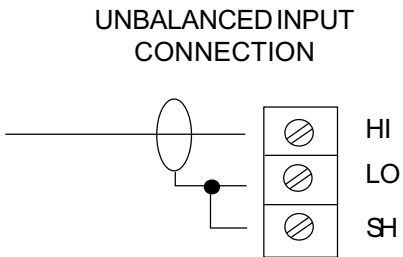
All four models have been shipped from the factory adjusted for unity gain. Applying a signal to input #1 will result in the same level signal appearing on each output. This is true of any input to any output.

Adjusting the input #1 trimpot on Output#1 section will not effect the input #1 signal on outputs 2 thru 4. Each input signal should be adjusted while monitoring each output individually.

Each input section contains a slide switch that controls a 10dB pad. The Model 5044 is shipped with the pad in place. If more gain is required it is necessary to remove the cover to access the pad slide switches. See page 3 for cover removal instructions.

Each input section also includes a push-on RED jumper that, when in place, provides 10dB of gain. Removing the jumper will reduce the input gain by 10dB. The Model 5044 is shipped with the jumper in place.

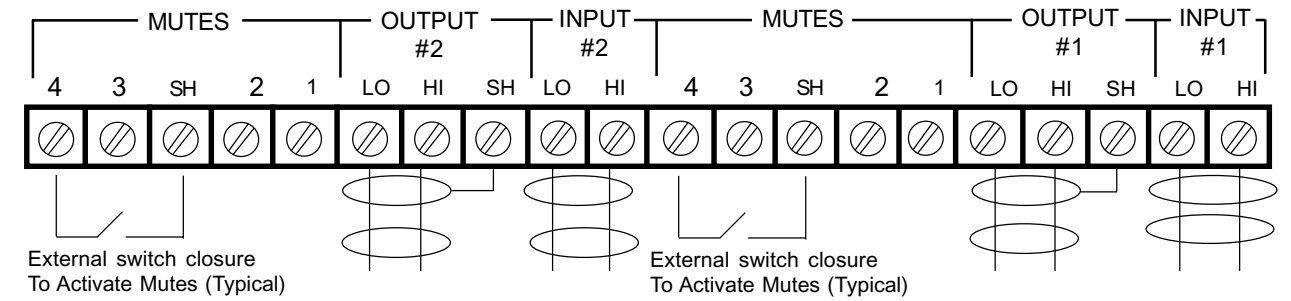
See page 4 for pad switch and jumper locations.



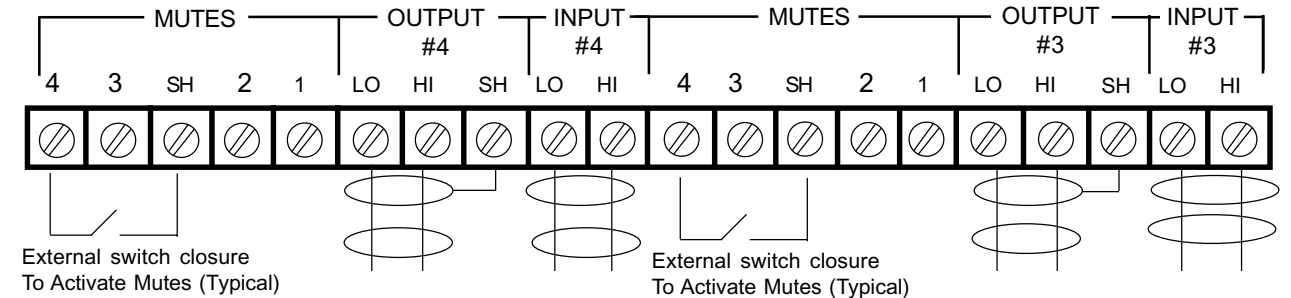
**PROTECH AUDIO®**

TOOLBOX SERIES  
**MODEL 5044 MATRIX MIXER**  
**CONNECTOR & LAYOUT DRAWING**

### OUTPUT SECTIONS 1 & 2



### OUTPUT SECTIONS 3 & 4



If additional level adjustments are required, beyond the range of individual gain controls, remove 8 cover screws to access pad slide switches and RED push-on gain jumpers.

