PROTECH [®]	1/06 INST
	AUDIC
WW	w.protec
Electronic or Transformer Ba	lanced Inp
The Models 5117, 5117T, 5217, 5 distribution amplifiers are design in professional audio systems. The application of the ADA's is four address systems, communication systems ground music systems, recording st broadcast systems. Each of the four models offers one (seven (7) output configurations. Th 5217T offer two identical 1 x 7 sector The Models 5117 and 5217 have state electronically balanced input(s) and 5117T and 5217T have transform input(s) and outputs. The input gain stage(s) on all four adjustable from 0 to 20dB of gain. outputs has independently adjustable infinity to 20dB of gain. Adjusting the output section does not effect the sec other output. Adjusting the input state effect <u>all</u> of the output level setted section. The 20dB of gain availation input stage should be used before	ned for u und in publistems, bac systems, bac systems, bac systems, and (1) input an he 5217 an ions. ate-of-the-a outputs. The ner isolate ur models Each of the e gain, fro e level of an ttings of an uge level w ings in the lable at the sum of the second secon

the output section is utilized.

MODELS COVERED	
5117	5217
5117T	5217T

echaudio.com

All Inputs and Outputs Individually Adjustable.



nputs and Outputs.

audio use	Using the output gain before the input gain has been exhausted, may result in lower headroom (less level increase before clipping). All units are shipped
ublic	from the factory with gains adusted to unity, into a
back-	600 ohm load.
. and	The power supply section of all four models has been designed to achieve the lowest possible
it and	noise and hum specifications. The AC transformer
7 and	is a UL recognized wall mount unit. Designing
	the transformer in this manner eliminates the AC
ne-art	field inside the chassis, and results in greatly
. The	improved noise and hum figures.
lated	The power supply section also includes a rear
	mounted fuseholder, a front mounted power on
els is	indicator (green LED), and a ground lift switch.
of the	The switch is used to disconnect the audio
from of any	amplifier ground from earth ground, if
of any	necessary. In almost all systems, the units will achieve best results with the ground lift switch
l will	in the ON position.
that	Each of the four models requires only a single
t the	unit of vertical rack space. The choice of single
ain of	or dual units provides extreme circuit density in
	a minimum of rack space.

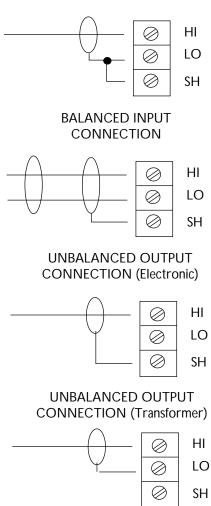
INSTALLATION

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;

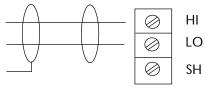
Mount unit in rack, using four machine screws of sufficient tensile strength to support unit properly.

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;

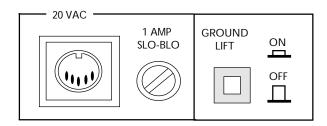








The wall mount power transformer plugs into the rear power connector marked 20VAC. Plug transformer jack into chassis connector first. Then plug wall transformer into three prong AC outlet.



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. The input is adjustable from 0 to 20dB of gain. THIS GAIN SHOULD BE USED BEFORE THE OUTPUT GAIN.

Each output is individually adjustable from infinity (completely off) to 20dB of gain. The input gain trimpot should be used to adjust the output setting to the desired level. If the input gain trimpot is adjusted to it's maximum clockwise position (maximum gain) and the output level is still not high enough, the output gain trimpot may be used to add additional gain.

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

