STDB-1 STEREO TUBE DIRECT BOX : USER GUIDE

by Demeter Amplification

The Demeter STDB-1 Stereo Tube Direct Box

Thank you for purchasing the STDB-1 Stereo Tube Direct Box. Designed by James Demeter, this unit offers faithful reproduction of the entire frequency spectrum and adds tube warmth to otherwise sterile direct-inject instrument recordings.

Safety Precautions:

1. Do not use the unit in excessively moist environments.
2. Although not required, it is recommended to leave 1 rack space above the unit to allow for proper ventilation and to elongate the life of the tubes.
3. This unit is equipped with a grounding plug as a safety feature. Please do not remove the ground on the unit. If you are experiencing noise in the signal, try lifting the ground on the signal source.

Package Contents:

This package should contain-

- STDB-1 Stereo Tube Direct Box
- IEC Power Cable

Warranty:

The STDB-1 Stereo Tube Direct Box is covered for 1 year parts and labor.

Specifications:

Input Impedence	27 M Ω
Output Impedence	150 Ω balanced 2 K Ω unbalanced
THD @ 0dB gain in	.04% unity .09% boost mode
Bandwidth	10Hz to 40kHz +/- .5 dB unity 20Hz to 18kHz +/- 1 dB boost
Balanced Level Out	-20.1 dB unity -4.2 dB boost
Unbalanced Level Out	Unity gain
Maximum Output	+20dBv @ 600 Ω
Output Transformer	Jensen DBE
Tubes	12AX7 (2) 12AT7A (1)
Output Jacks	XLR, TS
Input Jacks	TS
Operating Voltage	117 Volts or 240 Volts
Dimensions	7.5” x 5.5” x 1.75”

Front Panel Operation



- **Ground Lift Switch :** Lifts the ground on the output signal.
- **Phase Invert Switch :** Inverts the phase of the input signal.
- **Gain Unity/Boost :** Enables a 16dB boost (use on low-level signals)
- **Volume Knob :** Changes the output volume (only works when boost is in)
- **Aux Output :** Unity gain, *low impedence* tube driven output. Use this output to go back into an amplifier. Although generally instrument outputs run in *high impedence*, This output is tube buffered to create *low impedence.* This means that you can run extremely long cable lengths back into your amplifier (~200' max) from the direct box. This is handy because you can keep your STDB-1 & amplifier in completely separate rooms.

Rear Panel Operation



- **Balanced XLR Output :** Outputs a balanced +4dB signal.
- **Unbalanced TS Output :** Outputs an unbalanced line-level signal up to +20dB. (You can go straight into Pro Tools and completely bypass the preamplifier with this baby!).\
- **Voltage Selector :** Switches between 120VAC/220VAC for international operation. Fuse must also be replaced before switching the voltage. 120VAC operation requires a 1 amp quick blow fuse, 220VAC requires a .5 amp quick blow fuse.
- To reamp, put your recorders output into the front panel input. Use an XLR to 1/4" adapter (short ground [pin 1] to negative [pin 3]) and take the signal out of balanced XLR output.

Troubleshooting:

- **No Sound :** Check cables & connections, if light is off, check the fuse. If still no sound, check to see if the unit operates with the unity/boost button in. If everything is dead, try replacing the 12AT7 tube.

Support:

Feel free to call or email us for additional support or product repairs. We are available M-F 11am-4pm Pacific Standard Time.

Phone : (805) 461-4100

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