

PATCHBOX II

HENRY ENGINEERING

STEREO OUTPUT MULTIPLIER

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DESCRIPTION

PatchBox is a passive "output multiplier" that can be used to distribute the output of a professional audio mixer to the inputs of peripheral equipment. PatchBox is ideal for feeding a mixer's output signal into DAT recorders, digital editors, computer sound cards, cassette and reel decks, VCRs, PA systems, dubbing racks, limiters, and other audio equipment. Both professional equipment with balanced inputs and consumer equipment with unbalanced inputs can be used.

PatchBox is compatible with any active balanced (transformerless) low impedance signal source that is ground-referenced. (Most professional mixers built since the early 1980s use this topology.) From a stereo source, PatchBox creates twelve stereo outputs: six balanced stereo outputs and six unbalanced stereo outputs.

PatchBox balanced outputs, on XLR and TRS connectors, provide a "unity gain" signal with a 600 ohm source impedance. PatchBox unbalanced outputs, on gold-plated "RCA" connectors, provide a signal that is compatible with the inputs of consumer gear. Because the inputs circuits of audio equipment are normally high-impedance ("bridging"), any combination of outputs can be used simultaneously without interaction or signal degradation.

INSTALLATION

A balanced, LO-Z audio source should be connected to the PatchBox *BALANCED INPUT* TRS connectors. Wire the input plug as follows: Tip = HI; Ring = LO; Sleeve = GROUND. The input signal must be from a low-impedance source that is ground-referenced, e.g., a *transformerless* active balanced output.

PatchBox balanced outputs should be wired as follows:

XLR OUTPUTS: Pin 1 = GROUND; Pin 2 = HI; Pin 3 = LO
TRS OUTPUTS: Tip = HI; Ring = LO; Sleeve = GROUND

Patchbox unbalanced outputs should be wired conventionally. Unbalanced cables should not exceed 20 feet.

OPERATION

PatchBox has no adjustments or user controls. The balanced outputs will be at the same level as the source signal; unbalanced outputs will be about 10db below the source signal. NOTE: If PatchBox is used with an audio source that is *not* ground-referenced (a transformer-coupled output which is isolated from ground), the PatchBox unbalanced outputs will not operate.

TECHNICAL SPECIFICATIONS

Inputs:	Left and Right on TRS connectors Balanced, low impedance, ground referenced Any professional level, +4 dBu typical
Balanced Outputs:	Level: Unity gain Load: 3K ohms or higher 2 stereo pairs on XLR connectors 4 stereo pairs on TRS connectors
Unbalanced Outputs:	Level: 10 db below input level Load: 10K ohms or higher 6 stereo pairs on RCA connectors
Freq. response:	DC to 50 kHz
Noise, distortion	None
Physical:	6.0"w x 3.5"h x 2.5"d 2 lbs.
Construction	Aluminum enclosure and front panel

Technical specifications subject to change without notice.

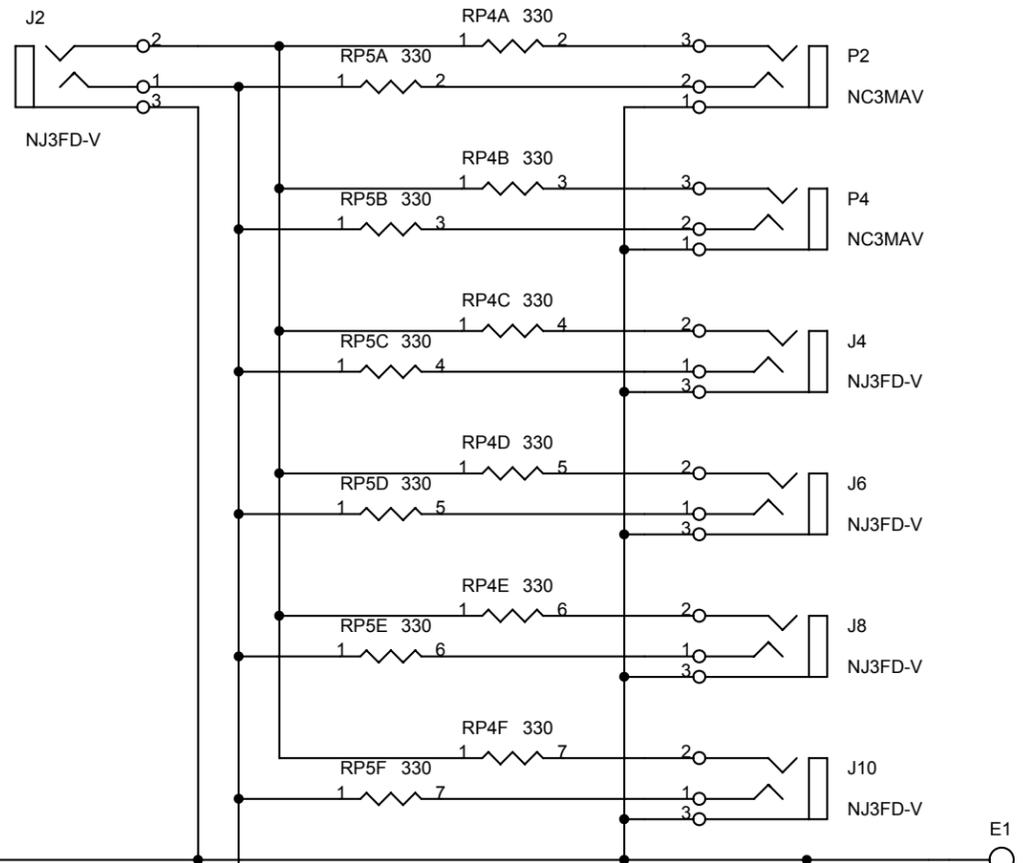
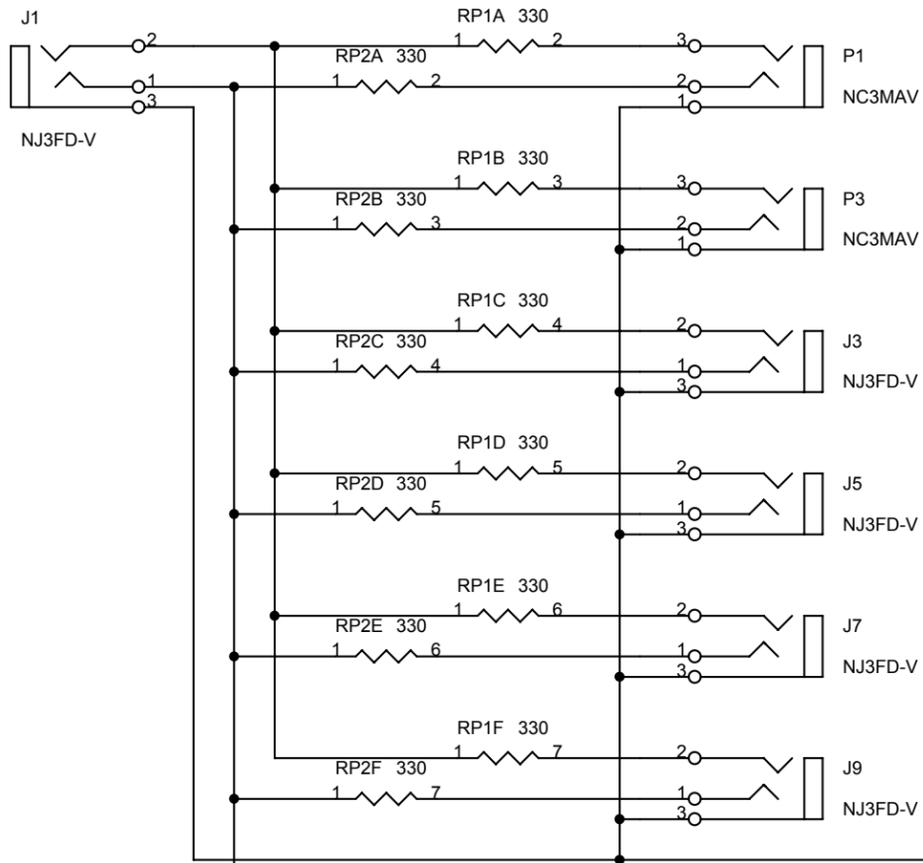


LEFT INPUT

LEFT BAL OUTPUTS

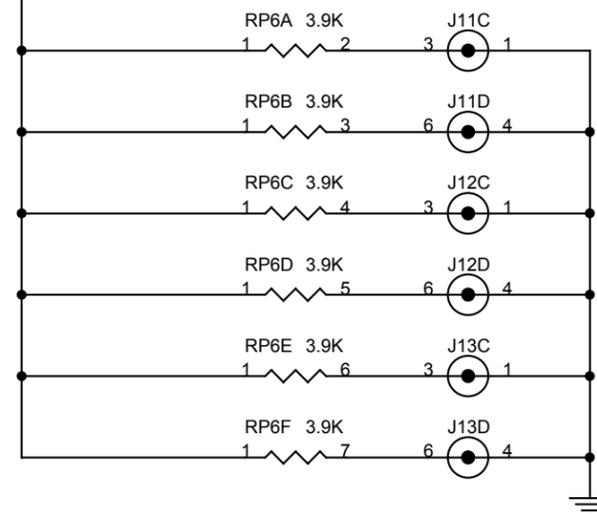
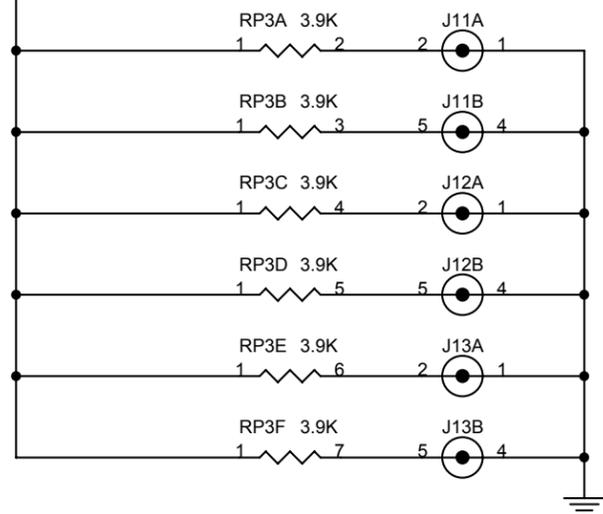
RIGHT INPUT

RIGHT BAL OUTPUTS



LEFT UNBAL OUTPUTS

RIGHT UNBAL OUTPUTS



E1
GND

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