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KERN IP-777 PRE-AMP OPERATIONS INFORMATION

Congratulation! You are the proud owner of the pre-amp *Bass Player Magazine* has called "a masterpiece." Get ready for a quantaum leap in your bass tone experience. Savvy bass players, like yourself, and from around the world have discovered that the renown designer LES PLOPA and Henry Kern's innovative IP-777 is an indispensable part of their bass sound. Bring it to your next gig, rehearsal or recording session and you will be amazed by the praise that your fellow musicians now will have for your bass tone.

The IP-777 is full of cool features. It uses only the highest quality transformers, resistors, capacitors and connectors that have been sourced from high-end manufacturers. The IP-777 is hand soldered, wired point to point and, as you would expect in a piece like this, each unit is individually inspected and tested.

KERN IP-777 PRE-AMPLIFIER

FRONT PANEL:

HI-Z INPUT: Accepts 1/4" connector. 10 Meg input impedance will accept all Hi-Z and Low-Z instruments. This 10 meg input impedance also enables users with piezo pick-ups to directly plug into the pre-amp while bypassing any impedance matching problems normally associated with these style pick-ups.

Lo-Z INPUT: (IP-777xl model only) This is a transformer balanced Lo-Z input that will enable the balanced output of a low -Z instrument to plug directly into the input of the pre-amp without the use of a matching transformer. Input can also be used with a lo-z dynamic microphone, for acoustic instruments that are being mic'd.

VOLUME: Controls the amount of input signal passing thru the pre-amp tube stage.

BRIGHT: Boosts the upper high frequency response.

TREBLE: Adjusts the high frequency spectrum.

MIDDLE: Adjust the mid-range spectrum. Also this control is interactive within the settings of the bass and treble controls.

BASS: Adjusts the low frequency spectrum.

DEEP: Mild boost of the lower frequency spectrum.

TONAL BALANCE: This is a post EQ control that acts as a high-pass filter in the full up position and as the control is rotated in a counter clockwise direction, turns into a high-cut filter, which gives the effect of a bass enhancement. This control is great for fine tuning your tone, after your three main EQ controls have been set.

MAIN OUT MASTER: Controls the amount of output from the two 1/4" outputs on the rear panel.

LINE OUT MASTER: Controls the amount of output from the male XLR output on the rear panel.

OPERATE SWITCH: Another name for a stand-by switch. Tubes will stay heated, while signal thru the pre-amp is turned off (grounded). Green light "on " means ready to go.

POWER SWITCH: Turns A/C voltage, on and off.

REAR PANEL:

POWER JACK 12vac: Input for the 12vac, 1.25 power supply.

FUSE: Slo-blo type, 2 amp.

LINE OUT: 600 ohm XLR output capable of +20 db output. This output is usefull when recording directly onto the tape machine in studio sessions. Also can be used for a direct out to mixing consoles or into the XLR input of a power amp. This is a balanced output and the ground is normally lifted. To the left of this jack is a ground lift switch. Some electronically balanced inputs on mixing consoles and power amps need to have this jack grounded. The down position on the ground lift switch will connect this output to ground for those situations.

MAIN OUT: 20k ohm output normally used for signal out, into a power amplifier. This output is unbalanced.

EFFECTS SEND & RETURN: The signal on the send jack is buffered thru a tube stage first, before leaving the pre-amp. Return jack brings the signal back into the pre-amp's next tube stage.

KERN ENGINEERING

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IP-777 PRE-AMPLIFIER

NEW HIGH PERFORMANCE PRE- AMPLIFICATION SYSTEM FROM KERN ENGINEERING

THIS NEW PRODUCT FROM KERN ENGINEERING AND AUDIO DESIGNER/BASSIST LES PLOPA FEATURES:

- * VERY HIGH IMPEDANCE (10 MEG) INPUTS FOR VERSATILITY AND PROPER IMPEDANCE MATCHING TO PIEZO TRANSDUCERS.
- * STRAIGHT FORWARD CONTROLS FOR QUICK AND EASY SETUP
- * **ALL VACUUM TUBE** SIGNAL PATH FOR LOW NOISE, WARMTH, CLARITY AND TONAL TRANSPARENCY. NO CHIPS ARE USED.
- * HIGH QUALITY COMPONENTS: POLYPROPYLENE CAPACITORS, FLAMEPROOF METAL FILM RESISTORS, GOLD PLATED CONNECTORS ETC. WERE CHOSEN FOR BEST TONE AND LONGEST LIFE.
- * TONE CONTROLS ARE PASSIVE FOR A INTUITIVE, FAMILIAR FEEL.
- * PEAK LAMPS THAT COME ON BEFORE CLIPPING, LETTING YOU KNOW IN ADVANCE.
- * HAND SOLDERED POINT TO POINT WIRING, USING GLASS EPOXY TAG BOARD FOR HIGH QUALITY AND DURABLE BUILD CONSTRUCTION. GREAT FOR RUGGED ROAD USE.
- * REAR MOUNTED, RECESSED TUBES FOR COOLING AND EASY ACCESS WITHOUT REMOVING UNIT FROM YOUR RACK. ONLY CERAMIC TUBE SOCKETS ARE USED.
- * BALANCED 600 ohm OUTPUT USING BROADCAST QUALITY OUTPUT TRANSFORMER, CAPABLE OF +20 OUTPUT LEVEL. SEPARATE LINE OUT MASTER CONTROL
- * HI LEVEL UNBALANCED OUTPUT WITH SEPARATE MASTER VOLUME CONTROL
- * CONTINUOUS BUFFERED TUNER OUTPUT.
- * HI-Z INPUT HAS A VERY HIGH 10 MEG INPUT IMPEDANCE. THIS IS ATTAINED BY USING A VERY SPECIAL BOOTSTRAPPED FOLLOWER CIRCUIT THAT PRODUCES LITTLE LOADING ON PICKUPS SUCH AS PIEZO TRANSDUCERS GIVING FULL RANGE RESPONSE AND ELIMINATING THE NEED FOR AN ADDITIONAL PRE-AMP BOX USUALLY NEEDED WITH PIEZO PICKUPS.
- * BUFFERED SIGNAL LEVEL EFFECTS LOOP FOR YOUR FAVORITE PEDALS AND PROCESSORS.
- * UNIT DOES NOT INVERT THE PHASE OF SIGNAL, PRESERVING SIGNAL PUNCH
- * HIGH VOLTAGE DESIGN WITH AUDIOPHILE CONCEPTS ENGINEERED FOR HEADROOM AND HIGH FIDELITY PERFORMANCE. CLASS " A " CIRCUITRY.