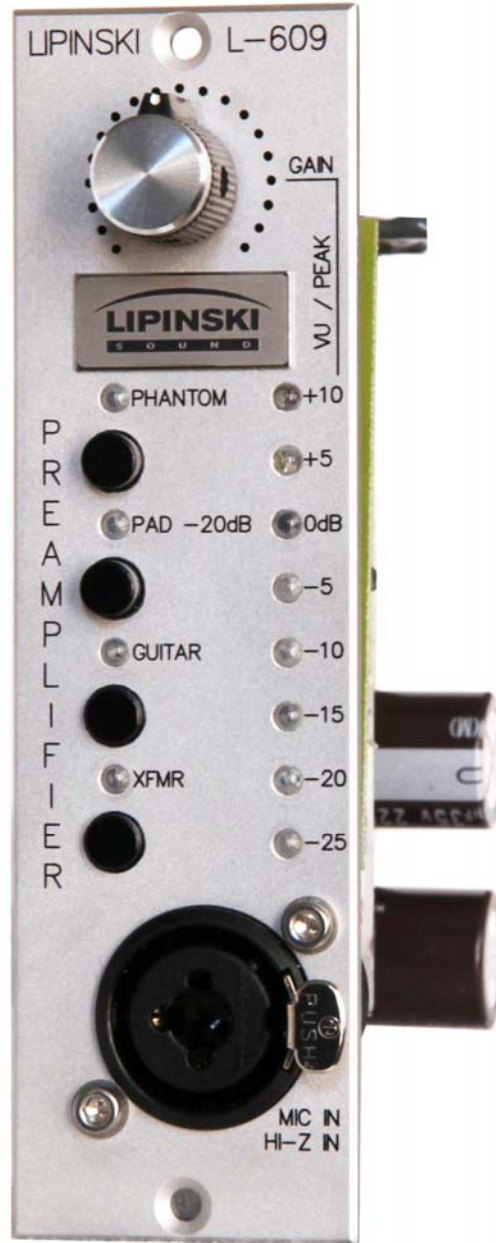
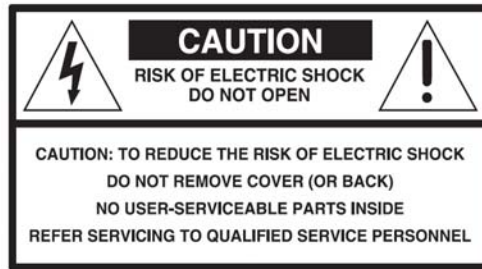




User Manual



L-609 Preamplifier
500 series preamplifier module



PRECAUTIONS AND SAFETY CONSIDERATIONS

We designed our product with maximum care in accordance with international safety standards.

CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property.

These precautions include, but are not limited to, the following:

- Read setup instructions provided by us,
- Follow these instructions,
- Always insure that the preamplifier is properly grounded,
- Only use accessories manufactured, specified or recommended by Lipinski,
- Do not use un-authorized main cables,
- All servicing must be performed by our qualified personnel,
- Do not expose this product to moisture, rain or water or direct sunlight,
- Insure adequate air circulation around your preamplifier,
- Power sources — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit,
- To avoid damage to your speakers and other playback equipment, turn off power to all related components before making any connections,
- Heat — Do not use this unit near heat sources, including heating vents, stoves, or other appliances that generate heat. It should not be placed in temperatures less than 40°F or higher than 95°F.

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“Thank you for putting your trust with Lipinski. We understand how convoluted the market place may be, and how difficult it is to come to a good decision in regard to sound quality. We appreciate your research and hope you enjoy your purchase.”

*Many Thanks,
Lukas A. Lipinski
Executive Director*

1. INTRODUCTION

You have selected Lipinski equipment which hails from thirty years of recording experience of Mr. Andrew Lipinski and his devotion to state-of-the-art sound.

To achieve this sound in the L-609 Pre-amplifier, we eliminated all capacitors and Integrated Circuits from the signal path and created our own, Lipinski Square – patented discrete class A technology. We also created transformer-like circuitry emulating an amorphous core transformer, albeit without unwanted, odd harmonic distortion.

2. UNPACKING

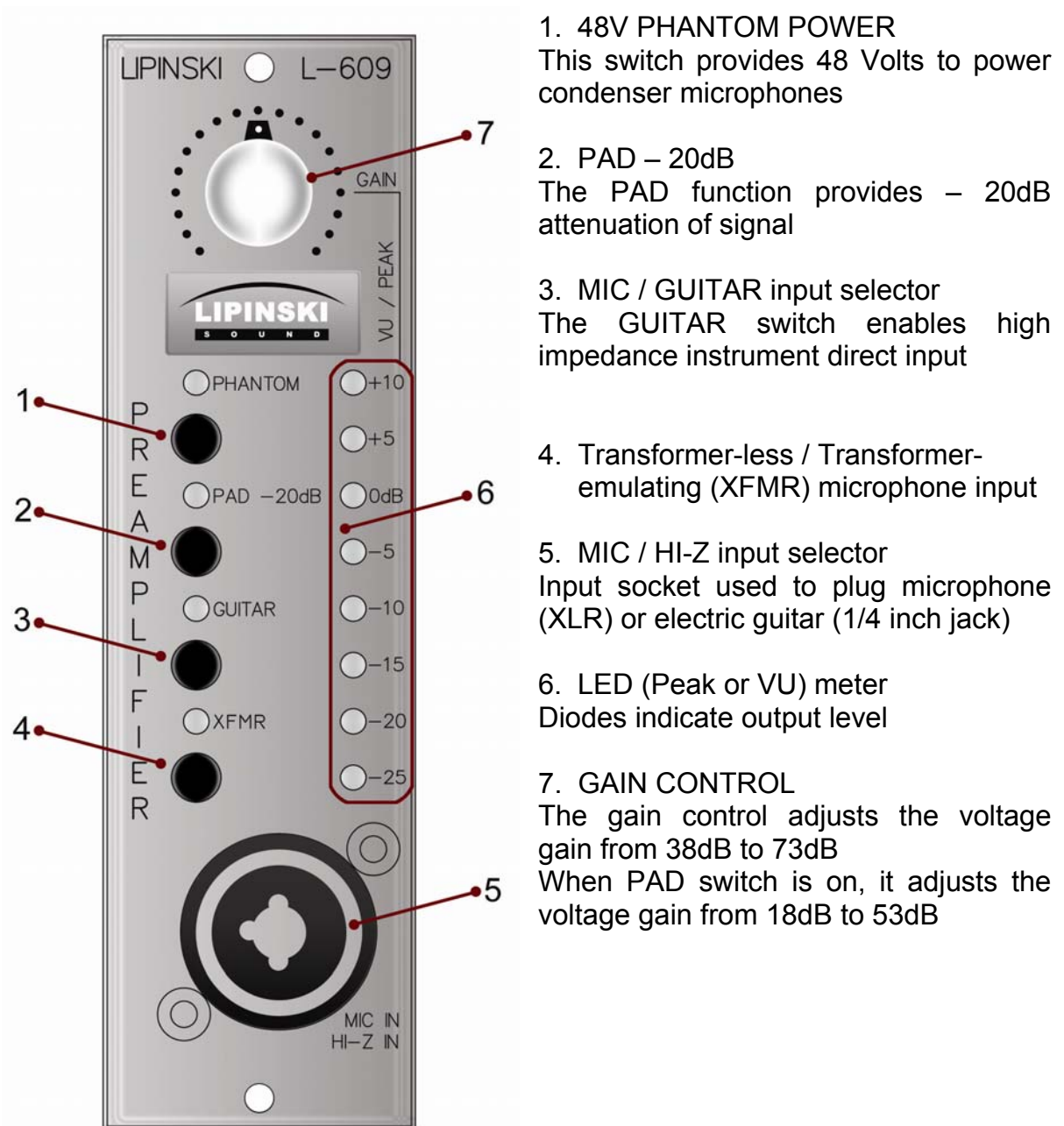
Our product is carefully packed by us to maximize safety in transport. We advise that you unpack it on a soft, thick surface (carpet, fitted carpet, blanket etc)

It helps to save all original packing materials and use them when you move the product.

3. FEATURES

- All discrete, class A patented circuitry
- No capacitors in the signal path
- No IC's in the signal path
- Microphone XLR or instrument DI high impedance ¼ inch input
- Precision rotary gain control
- 8 position LED Peak / VU meter, switchable inside
- 48 Volt phantom power
- Resistor-less, -20dB PAD, which skips one stage of amplification to maintain signal quality
- Transformerless / Transformer input mode - proprietary circuit emulating amorphous core transformer, eliminates unwanted distortion
- Minimal internal signal wiring
- Gain control is implemented in negative feedback loop, therefore it does not degrade dynamics

4. FRONT PANEL DESCRIPTION



1. 48V PHANTOM POWER
This switch provides 48 Volts to power condenser microphones

2. PAD – 20dB
The PAD function provides – 20dB attenuation of signal

3. MIC / GUITAR input selector
The GUITAR switch enables high impedance instrument direct input

4. Transformer-less / Transformer-emulating (XFMR) microphone input

5. MIC / HI-Z input selector
Input socket used to plug microphone (XLR) or electric guitar (1/4 inch jack)

6. LED (Peak or VU) meter
Diodes indicate output level

7. GAIN CONTROL
The gain control adjusts the voltage gain from 38dB to 73dB
When PAD switch is on, it adjusts the voltage gain from 18dB to 53dB

5. QUICK GUIDE TO USING THE L-609 PREAMPLIFIER

Mounting

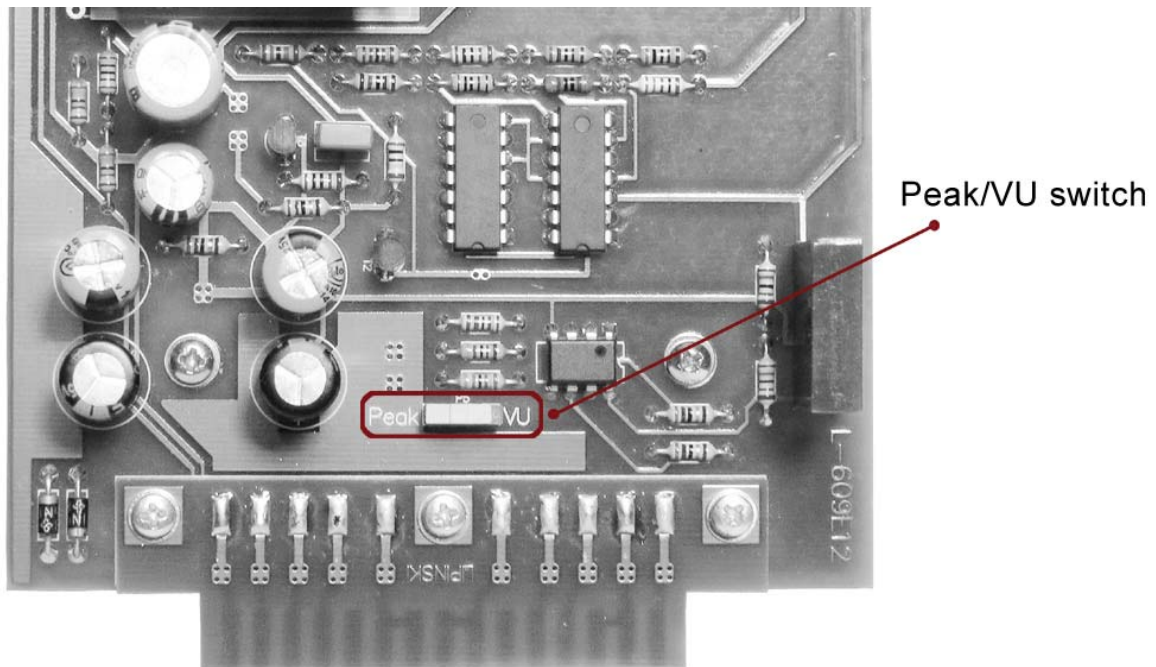
The L-609 Preamplifier requires a 500 Series rack.

1. First, turn off and unplug your rack frame. Make sure the slot you intend to use is clean and free of debris
2. Firmly and evenly push the L-609 Preamplifier into place until it is well situated in the card slot
3. Mount the L-609 front panel with two screws, to the 500 series rack
Note: The screws are tight-fitting. Make sure to not cross the thread
4. Plug your 500 series rack back into the AC source, and power-up your rack

Set up

1. Turn the gain fully counter-clockwise and check that phantom power is off.
2. Using shielded, low capacitance microphone cable, connect a microphone to the preamplifier and then turn on the phantom power switch if required. When sending a signal to a recorder that has fixed input levels, simply increase the gain until the optimum recording level is reached.
3. Careful! Turning the phantom power switch on or off, or the main power switch on or off can produce a large amplitude spike in the line output. Protect your ears, speakers, and equipment by being careful while the L-609 Preamplifier output is connected to another piece of equipment.
4. Enjoy the sound of Lipinski.

6. MAIN BOARD VIEW

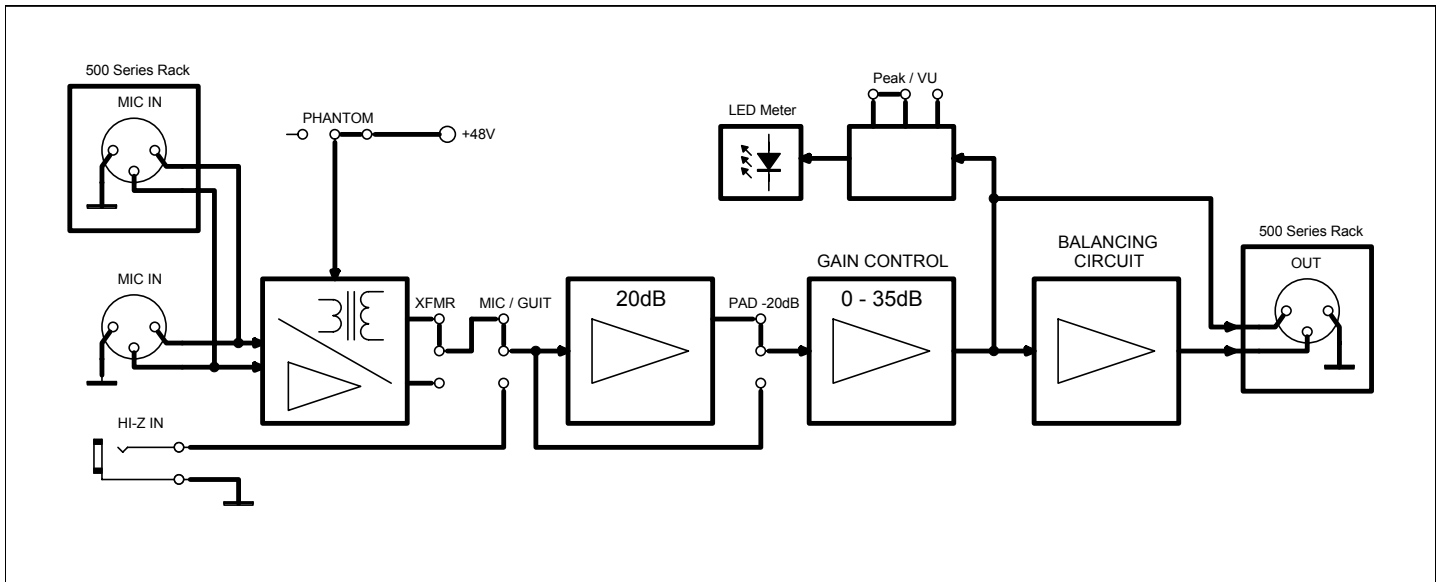


Peak / VU switch: When VU meter is on, LED indicator on the front panel shows a subjective level of loudness. Otherwise instantaneous output level is measured.

7. PRODUCT SPECIFICATION

Potentiometer gain range	35dB
Minimum gain (with -20 dB Pad)	18dB
Maximum gain	73dB
Dynamic range (curve A)	126dB
Distortion (0 dB out)	0.008%
Distortion (+12 dB out)	0.016%
Maximum low distortion output	+22dB
Mic input impedance	6.8k Ω
DI input impedance	220k Ω
Power supply current	58mA
Operating voltages	+/-16V

8. LIPINSKI L-609 – BLOCK DIAGRAM, SIGNAL PATH





We wish you fantastic, unforgettable, moments of audio performance.

The Lipinski Team