

## - FCC COMPLIANCE -

*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. If the device is not installed and used in accordance with the instructions, it may cause harmful interference to radio communications and void the user's authority to guarantee the equipment.*

*Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

- *Reorient or relocate the receiving antenna.*
- *Increase the separation between the equipment and receiver.*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- *Consult the dealer or an experienced radio/TV technician for help.*

*Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.*



## **KNOCKOUT** **Attack Equalizer**

Congratulations on your purchase of the Electro-Harmonix **KNOCKOUT ATTACK EQUALIZER!** The Knockout is one of the most specific and powerful tonal adjustment systems that you will ever use. What does that mean exactly? The KNOCKOUT consists of one Low-Pass filter, one High-Pass filter and a direct dry signal... each with its own knob. When combined they yield a very specific and focused tonal sculpture. Extreme and very specific adjustments are not only simple to set up but also yield a very rich and defined tone that cannot be obtained from an amplifier or much more complex equalizing systems. The curves of the filters were specifically selected for their musical value. They may be used independently to reinforce a specific area but their real value can be heard when all three are used together. Get ready for the professional sound that you have been waiting for.

## - CONTROLS -

**LOW Knob** – The LOW knob is a volume control for the low or bass frequencies. The further you turn the LOW knob clockwise, the louder the low frequencies will be. The LOW knob controls the output volume from the Knockout's 7-Pole Low-Pass Filter. The low pass filter has a fixed cutoff frequency of 85 Hz. The LOW knob is responsible for contouring the bottom end in relation to the total sound.

**DRY Knob** – The DRY knob is a volume control for the signal present at the Input Jack. The output volume of the dry signal will increase as this knob is rotated clockwise. Use the DRY knob in conjunction with the LOW and HIGH knobs to create your tone.

**HIGH Knob** – The HIGH Knob is a volume control for the high or treble frequencies. The further you turn the HIGH knob clockwise, the louder the treble frequencies will be. The HIGH knob controls the output volume from the Knockout's 6-Pole High-Pass Filter. The high pass filter has a fixed cutoff frequency of 6.5kHz. The HIGH knob is responsible for contouring the high end to the total sound.

**STATUS LED** – This LED indicates the current state of the unit. When the LED is lit up, the box is in effect mode. When the LED is off, the box is in TRUE BYPASS mode.

**INPUT Jack** – This ¼” jack is the audio input to the KNOCKOUT. The input impedance presented at the Input Jack is 390 kΩ.

**OUTPUT Jack** – This ¼” jack is the output signal that is sent to your amplifier, another pedal or to your recording setup.

### - OPERATION NOTES -

The KNOCKOUT was designed to work with any Instrument level signal from any instrument or voice. The simplicity of the setup is brilliant. It is basically a balancing act, which revolves around the Dry signal. Both the LOW and the High knobs deal with radical amounts of gain. The Dry signal is like the mediator between both filters. Each element is critical to the overall sound. It pays to experiment in you search for the right setup for each situation. You will come across many interesting textures that you may want to write down and store for recall.

Remember that there is a value in each pot. The **DRY, LOW** and **HIGH** elements may each be used independently or in any combination. With the KNOCKOUT, a little adjustment goes a long way.

Power, from the internal 9-volt battery or external battery eliminator, is activated by plugging into the input. The input cable should be removed when the unit is not in use to avoid running down the battery.

The optional 9V power supply from Electro-Harmonix is **US96DC-200BI** (same as used by Boss™ & Ibanez™). **9.6 volts/DC 200ma**. The barrel connector on the front of the Knockout is for the 9-volt battery eliminator capable of delivering a minimum of 50 mA of current at 9VDC. The inner ring of the 9-volt battery eliminator must be negative, the outer ring positive. The unit's battery may be left in or taken out when the eliminator is in use.

### - WARRANTY INFORMATION -

Please register online at <http://www.ehx.com/product-registration> or complete and return the enclosed warranty card within 10 days of purchase. Electro-Harmonix will repair or replace, at its discretion, a product that fails to operate due to defects in materials or workmanship for a period of one year from date of purchase. This applies only to original purchasers who have bought their product from an authorized Electro-Harmonix retailer. Repaired or replaced units will then be warranted for the unexpired portion of the original warranty term.

If you should need to return your unit for service within the warranty period, please contact the appropriate office listed below. Customers outside the regions listed below, please contact EHX Customer Service for information on warranty repairs at [info@ehx.com](mailto:info@ehx.com) or +1-718-937-8300. USA and Canadian customers: please obtain a **Return Authorization Number (RA#)** from EHX Customer Service before returning your product. Include with your returned unit: a written description of the problem as well as your name, address, telephone number, e-mail address, and RA#; and a copy of your receipt clearly showing the purchase date.

#### **United States & Canada**

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This warranty gives a purchaser specific legal rights. A purchaser may have even greater rights depending upon the laws of the jurisdiction within which the product was purchased.

To hear demos on all EHX pedals visit us on the web at **[www.ehx.com](http://www.ehx.com)**

Email us at **[info@ehx.com](mailto:info@ehx.com)**