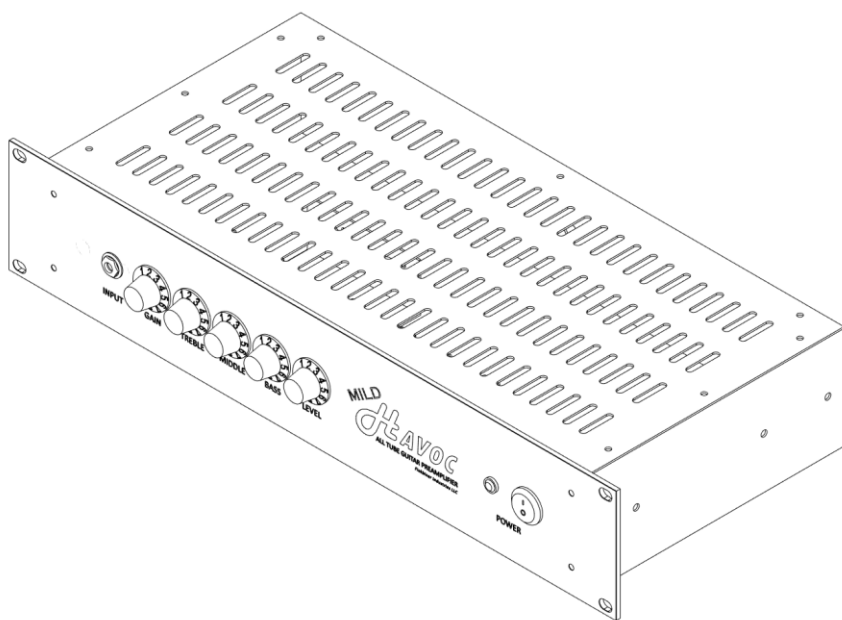


# MILD *AVOC* Preamplifier

*User's Manual*

*Finkbiner Industries LLC*



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## WARNINGS

### RISK OF ELECTRICAL SHOCK

Do not open cover, risk of electrical shock inside.



To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids should not be placed on this apparatus. To prevent the risk of fire hazard, replace with same type 250 volt fuse.

### SERVICE AND SUPPORT

For service or support, contact:

[Support@HavocAmps.com](mailto:Support@HavocAmps.com)

### ALLOW ADEQUATE VENTILATION

Do not block the vents on top of the apparatus. Provide adequate ventilation to prevent overheating.

## OVERVIEW

Congratulations on your purchase of a *MILD* **HAVOC** preamplifier, hand-built and hand-wired by Finkbiner Industries LLC in the USA. The **HAVOC** preamplifier features two 12AX7 tubes, *TREBLE*, *MIDDLE*, and *BASS* controls to fine tune your tone, and an adjustable level unbalanced line level output for connecting to your choice of a **HAVOC** power amplifier, effects unit, mixer, or any other line input audio device.

Start with the *GAIN* at minimum, and adjust output signal level with the *LEVEL* control. This results in a sparkly clean sound that is still capable

of driving the line output to the full 0 dBV (1 volt rms) level (**HAVOC** power amplifiers are designed to overdrive with a 0 dBV input signal, so this combination results in clean preamplifier with overdriven power amplifier). Of course, you can turn the *LEVEL* down for a completely clean sound.

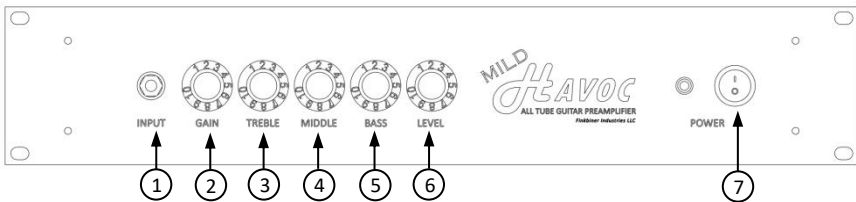
OR

Crank the distortion with the *GAIN* control, and adjust output signal level with the *LEVEL* control. This results in a progressively more overdriven sound. Use it for a harmonically rich overdrive tone at low volume levels, or crank the power amplifier as well for the full **HAVOC** experience.

## FEATURES

- Single channel design for circuit simplicity
- Low noise design and layout
- *TREBLE*, *MIDDLE*, and *BASS* controls
- Line level output

## FRONT PANEL



1. INPUT (Unbalanced)

The *MILD* **HAVOC** preamplifier has a single high impedance (1 MΩ ) input for use with standard guitar pickups. The input jack accepts a standard 1/4" guitar cable.

2. GAIN

The *GAIN* control sets the overall overdrive and distortion of the preamplifier, as well as impacts output level. Low settings result in a clean sparkly sound, while the maximum setting results in a slightly overdriven sound that is rich in harmonics and sustain.

3. TREBLE

The *TREBLE* control alters the high frequency content of your sound.

4. MIDDLE

The *MIDDLE* control alters the middle frequency content of your sound.

User's Tip:

The *MIDDLE* control is quite interactive with the *TREBLE* and *BASS* controls. With low settings of the *TREBLE* control, the *MIDDLE* control will begin controlling the high frequency response as well; likewise for low settings of the *BASS* control.

5. BASS

The *BASS* control alters the low frequency content of your sound.

## 6. LEVEL

Use the *LEVEL* control (along with the *GAIN* control) to adjust the overall signal level sent to the line output.

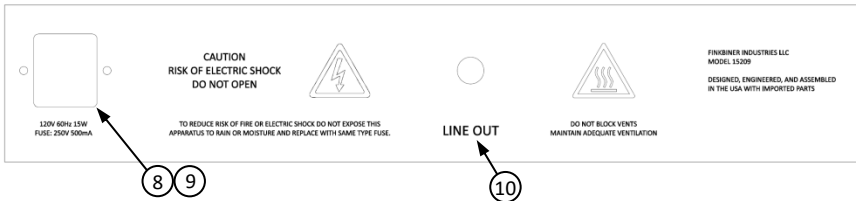
### User's Tip:

It is recommended to begin by setting the *LEVEL* control to minimum and increasing until the volume/level is acceptable. The output stage of the amplifier is designed to clip once the output signal reaches over 1 Vrms; this is important to avoid damage to guitar pedals and other gear you might plug into.

## 7. POWER

It turns it on when you want to rock, and turns it off when you are finished.

## REAR PANEL



## 8. POWER

Plug the included IEC power cable in here, and plug the other end into a grounded 120 VAC outlet. Be sure to use a properly grounded outlet. Do NOT remove the ground pin from the power cord, due to shock hazard.

## 9. FUSE

The power cord receptacle contains a fuse for protection. Only replace the fuse when the power cord has been disconnected,

and only with like specifications (see SPECIFICATIONS on page 7). If your amplifier is blowing fuses, send it in for service (see SERVICE AND SUPPORT on page 3). Do NOT replace with a larger current rating fuse.

#### 10. LINE OUT (Unbalanced)

Accepts a 1/4" TS connector, and sends a line level signal to a power amplifier, stomp box, mixing board, effects unit, etc. Designed to produce a 0 dBV (1 volt RMS) signal. The *GAIN* and *LEVEL* controls are used in concert to adjust the level of this signal.

## SPECIFICATIONS

- MODEL: 15209
- INPUT IMPEDANCE: 1 M $\Omega$
- OUTPUT LEVEL: 0 dBV (1 volt RMS) nominal (see below), 1.5 volt RMS maximum
- OUTPUT IMPEDANCE: < 1K $\Omega$
- POWER CONSUMPTION: < 15 watts 60 Hz, 120 VAC
- FUSE: 5x20mm, 250V, 0.50 amp, ceramic, slow blow
- DIMENSIONS: 19" x 8" x 3.5"
- WEIGHT: 6 lbs
- TUBES: (2) 12AX7

## WARRANTY

### Warranty Coverage

This warranty covers defects in material and workmanship in **HAVOC** amplifiers purchased in the USA for a period of one year from the date of original purchase. The warranty begins on the date of purchase. Finkbiner Industries LLC will repair or replace, at its discretion, the defective product.

### Items Not Covered

The warranty does not cover:

1. Damage caused by accident, abuse, modification, misuse, neglect or occurring during shipment.
2. Damage caused by service or repair performed by persons not authorized by Finkbiner Industries LLC.
3. Products not purchased from an authorized **HAVOC** amplifiers dealer.
4. Products on which the serial numbers have been removed, defaced, or altered.

### How to obtain warranty service

Contact [support@HavocAmps.com](mailto:support@HavocAmps.com) to arrange for warranty service. Include a copy of your sales receipt.

### Satisfaction Guarantee

If you are not satisfied with your **HAVOC** amplifier for any reason, contact [support@HavocAmps.com](mailto:support@HavocAmps.com) within 30 days of the original date of purchase to return the product for a full refund of the purchase price, less shipping costs. The product must be in original, undamaged condition.