Wounded Paw Audio
Siege Engine II Bass Amplifier
Owner's Guide

Lay siege to your enemies with the successor to the Bass 701 amp. The Siege Engine II is a compact but powerful bass weapon with a TON of overdrive on tap and massive flexibility to shape your tone. The pre amp features a 5 band overdrive and EQ section that allows you to carefully tailor the gain and tone. Each frequency band of the ovedrive section features a true clean signal blended with jfet overdrive for a total of 15 hand tested and selected jfet transistors in all. 100% analog.

- **Input and Pre Gain:** The high impedance jfet input amp feeds directly into a Pre Gain control that can be pushed hard to introduce some drive or kept clean, which in turn pushes the overdrive section harder or lighter as desired. It's a quick way to alter the overall aggressiveness of the Siege Engine.

- **Overdrive:** In the overdrive section the signal is split into Bass, Lo Mid, Mid, Hi Mid and Treble frequency bands. Each band has a Level control and it's own Drive control. All the bands are summed back together to form a harmonically rich tone that still maintains the integrity of all the notes you're playing.

- **Footswitch:** Turn the overdrive section or the effects loop on or off individually with the two button footswitch or the selector rotary switch on the front panel.

- **700 Watt Power Amp:** The class D power amp can deliver 700 watts into 4 ohm loads.

- **Balanced Line Output:** XLR and unbalanced 1/4" jacks to connect to mixing consoles or other amplifiers.

- **Headphone Output:** Connect headphones to use the amp for practice with an aux input.

- **Universal Power:** Can accept 100 to 240 Volts AC, 50 to 60 Hz.

- **Compact Size:** 11" x 3" x 8" and comes with a carrying case.

Front Panel

In: 1/4" jack to connect to an instrument.

Standby: In the on position the red LED turns green and all the outputs are active. The tuner output is active in either position.

-12dB Pad: In the down position this toggle switch attenuates the input signal by 12dB, for use with active basses or instruments with very high output levels.

Pre Gain: After the jfet input amp the signal is sent to the Pre Gain control which can be pushed hard or kept clean, regardless of whether the overdrive section is on or off. This also sets how hot the signal being fed to the overdrive can be, which in turn will affect the tone.

Selector Rotary Switch: You can turn the overdrive section or the effects loop on or off individually with the two button footswitch or the selector rotary switch on the front panel. The positions for the selector rotary switch are Dry (no overdrive or effects loop), OD (overdrive only), FX (effects loop only), or OD>FX (the overdrive section feeds into the effects loop send). When the footswitch is connected it overrides the selector rotary switch.

Overdrive Section

In the overdrive section the instrument signal is split into Deep, Bass, Lo Mid, Mid, Hi Mid and Treble frequency bands. The purple LED indicates when the Overdrive section is engaged.

Deep: This sets the output level of the Deep band but has no overdrive so your low end is kept completely clean and intact.

Bass, Lo Mid, Mid, Hi Mid and Treble: Sets the output level of each of these frequency bands. These frequency bands also have individual Drive controls which sets how much overdrive is applied to that particular frequency range.

Volume: All the bands are then summed back together to form a harmonically rich tone that still maintains the integrity of all the notes you're playing with the output level being set by the Volume control.

Hi Cut: The hi cut control works on the summed overdrive signal to tame the possibly huge amounts of higher harmonics generated by mixing all the overdrives together.

Effects Loop

The effects loop comes after the Overdrive section and can be switched on or off by using the footswitch or the selector rotary switch on the front panel. There is a red LED indicating whether the effects loop is on or off below the selector rotary switch.
The effects loop Send and Return jacks are on the back panel, along with a Send Level control, for adjusting how hot the send to any effects units are.

Master Section

The master section is the final stage before the power amp controlling the Master volume and Bass and Treble on the output signal. The Line Outs are affected by the Bass and Treble controls but not the Master Volume.

Bass: Bass shelf control with 15dB of boost or cut. At the noon position there is no change to the signal. With the treble control this forms a Baxandall type tone stack.

Treble: Treble shelf control with 15dB of boost or cut. At the noon position there is no change to the signal.

Master Volume: Output volume sent to the power amp only.

Back Panel

Headphones
Connect headphones to use the amp for practice with an aux line in for playing along to recorded tracks.

Level: Sets the headphone volume of the bass amp sound.

Aux In: 1/8" jack to connect to a phone or MP3 player, or any other source of pre-recorded music. You must set the volume for your aux in on whatever device is plugged into it.

Phones: Stereo 1/4" jack to connect to headphones.

Line Out
Send a signal out to mixing consoles, PA systems or other amplifiers.

XLR out: Connect a mic cord to send a balanced signal to mixers. DO NOT apply 48V phantom power to this XLR line.

Unbalanced: Connect to an external amp using an unbalanced 1/4" instrument cable. For a balanced output use the XLR out.

PRE / POST and GND lift: Rotary switch to select the signal output. In the Pre position the Line Out signal is taken directly from the input of the amp. In the Post position the Line Out signal is taken from the Master section which comes after the overdrive and effects loop, before the Master Volume but after the Bass and Treble controls.
To engage the ground lift if there is a ground hum issue on the XLR Out, use the third and fourth positions of the rotary switch: Pre with GND lift, and Post with GND lift.

Tuner
Use this 1/4" jack to connect to a tuner. When the amp is on this output is buffered from the input. When the amp is on standby it is taken directly from the input jack of the amp for silent tuning.

Effects Send and Return
1/4" jacks to connect to an external effects pedal or signal processor. If nothing is plugged into the Return jack the signal is passed through from the Send. The Send Level adjusts the output level of the Send jack.

Footswitch
Connect the included footswitch using a 1/4" TRS (stereo) cable, also included. The footswitch overrides the function of the front panel selector rotary switch when it is attached. The LEDs on the footswitch indicate whether the Overdrive section and/or the effects loop is engaged.

Speaker Outputs
The 1/4” jack and Speakon jack are wired in parallel to connect to speaker cabinets. The absolute minimum load is 2.5 ohms. The output power is 700 watts at 4 ohms or 350 watts at 8 ohms.

AC Power In
Use a grounded wall socket or power bar and the supplied AC cable to connect to AC power. The power range can be from 100 to 240 volts AC, 50 to 60Hz.

Recommended Settings
As a starting point we recommend setting all the overdrive section's levels to noon and the drives to the same or a consistent lower level. From there you can experiment with adjusting the pre gain to quickly add or subtract the total gain, or individually adjust the overdrive channels. To hear what each overdrive channel sounds like individually you will have to turn all the channel's levels down to 0 and then bring one up by itself. It may take a while to find your tone but it will be well worth it.

Wounded Paw Audio
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