

Wounded Paw BASS701 Amplifier Owner's Guide

The BASS701 is a compact but powerful bass amp with a TON of overdrive on tap and massive flexibility to shape your tone. The pre-amp features a 6 band overdrive section that allows you to carefully tailor the gain. The power amp has 700 watts of power to deliver that tone.

Features

- **6 Band Overdrive:** In the overdrive section the instrument signal is split into 6 frequency bands and each band goes through it's own overdrive channel, with separate Drive and Level controls. Then all the overdrive channels are summed back together to form a harmonically rich tone that still maintains the integrity of all the notes you're playing. There is a wide range of drive that can be applied to each frequency band as well as adjusting the individual channel volume.
- **Effects Loop:** The effects loop can be set to come before or after the entire overdrive section for more flexibility. The level of signal sent to the effects loop can also be adjusted.
- **Select Footswitch:** Select between Overdrive and Clean with either the included footswitch or the Select toggle switch on the front panel.
- **700 Watt Power Amp:** The class D power amp section can deliver 700 watts of power into a 4 ohm speaker load.
- **Balanced Line Outputs:** A separate level control sets the output volume to the balanced XLR and balanced/unbalanced 1/4" jacks to connect to mixing consoles or other amplifiers.
- **Headphone Output:** Connect headphones to use the amp for practice with a line in for playing along to recorded tracks.
- **Universal Power:** Can accept 100 to 240 Volts AC, 50 to 60 Hz.
- **Compact Size:** 12" wide x 3" tall x 9" deep.

Front Panel



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

Standby: In the down position the amp is in standby mode and there is no output. In the up position the red LED turns green and all the outputs are active.

-15dB: In the down position this toggle switch attenuates the input signal by 15dB, for use with active basses or instruments with very high output levels.

Overdrive Section

In the overdrive section the instrument signal input level is set by the Pre Gain control and then split into 6 frequency bands covering the entire audio spectrum. Each band goes through a separate overdrive channel with individual Drive and Level controls. Then all the overdrive channels are summed back together into one signal. It's important to note that the overdrive channels are divided by frequency on the input signal and the overdrive on each channel will be applied mostly to that particular frequency band. The harmonics generated on each overdrive channel will go beyond that frequency band and are retained as an integral part of the output tone.

Pre Gain: This sets how much of the clean instrument signal is sent in parallel to all the individual drive channels which offers a quick way to alter the overall amount of overdrive. Turning the Pre Gain down also slightly raises the output level of the entire Overdrive section to allow for full volume at lower gain settings.

Drive Channels: Each drive channel has a Drive control which sets how much overdrive is applied to that frequency range and a Level control which sets the volume of that channel in the overall output of the Overdrive section.

The Low channel covers the bass end of the audio spectrum.

The four mid range channels are centered on 190Hz, 250Hz, 400Hz and 620Hz.

The High channel covers the treble end of the audio spectrum.

Treble: The treble controls works on the output mix of all those channels to tame the possibly huge amounts of harmonics generated by summing all the overdrives together.

Effects Loop

The effects loop can be set to come before or after the overdrive section or turned off entirely using the rotary switch labeled POST, OFF, PRE. The red LED indicates when the Effects Loop is in use either Pre or Post Overdrive. The Send and Return jacks are on the back panel.

In the Pre position the instrument signal is sent through the Send Level control to the effects loop send. The effects loop return is then sent directly to the overdrive section and finally to the OD+FX Level control.

In the Post position the output of the overdrive section is sent directly to the Send Level control and then to the effects loop send. The effects loop return is then sent to the OD+FX Level control.

In the Off position the effects loop is not in the signal path. The overdrive section output is sent directly to the OD+FX Level control.

Send Level: The level of signal sent to the effects loop can be adjusted with this control. With the effects loop set to PRE and the Send Level set to noon the level sent to the effects loop will be identical to the instrument signal input. When the effects loop is set to POST the send comes from the output of the overdrive section and the signal level may need to be adjusted with the Send Level control.

OD+FX Level: This control sets the output level of the Overdrive section and the Effects Loop sent to the Master section.

Select: Use this toggle switch to select the output signal sent to the Master section, either the Overdrive Section plus Effects Loop or the Clean channel. When the Select footswitch is plugged into the Footswitch jack on the back panel it overrides the functioning of the Select toggle. With the Clean Level all the way down this can also be used as a mute for tuning or just silence.

Clean Level: Set the level of the clean signal sent to the Master section when the clean channel is selected.

Master Section

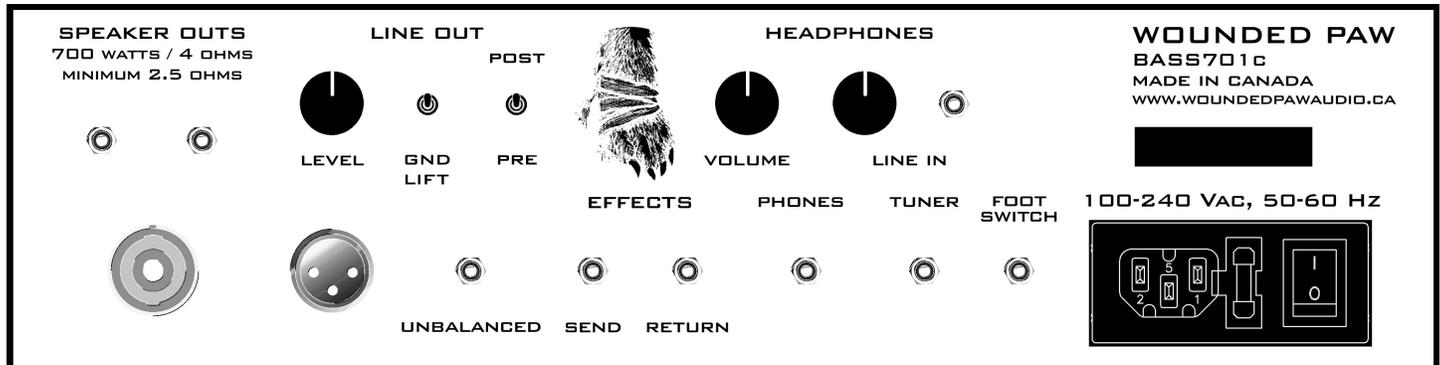
The master section is the final stage before the power amp controlling the master volume and bass and treble on the output signal.

Bass: Bass shelf control with 12dB of boost or cut. At the noon position there is no change to the signal. With the treble controls this forms a Baxandall type tone stack.

Treble: Treble shelf control with 12dB of boost or cut. At the noon position there is no change to the signal.

Volume: Output volume sent to the power amp.

Back Panel



Speaker Outputs: Two 1/4" jacks and one Speakon jack all wired in parallel to connect to speaker cabinets. The absolute minimum load is 2.5 ohms but 4 ohms is recommended. The output power is 700 watts at 4 ohms or 350 watts at 8 ohms.

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.

GND Lift: Toggle switch to lift the ground on the XLR out. Only flip this toggle up if there is a hum problem on the XLR out. Normally it should be in the down position.

PRE / POST: 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, before the Master Volume but

after the Bass and Treble controls.

Level: The volume of the Line Out signal.

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

Effects Send and Return

1/4" jacks to connect to an external effects pedal or signal processor. The effects loops can be set to come before or after the overdrive section on the front panel. If nothing is plugged into the Return jack the signal is passed through from the Send.

Footswitch: Connect the included footswitch using a 1/4" instrument cable. The footswitch overrides the function of the front panel Select toggle switch when it is attached. The LED on the footswitch is lit when the Overdrive section is selected.

Tuner: Buffered 1/4" output jack to connect to a tuner, taken from the input of the amp.

Headphones

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

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

Line In: 1/8" jack to connect to an MP3 player, or any other source of pre-recorded music. The knob sets the headphone volume for the line in music only.

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

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 controls to noon, as well as the master section's bass and treble. From there you can experiment with changing the overdrive 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.

Contents

The Bass701 amplifier ships with the Overdrive / Clean select footswitch, one 1/4" cable to connect the footswitch, and a power cord.



Wounded Paw Audio
26C Brookfield St.
Toronto, ON
M6J 3A9, Canada
www.woundedpawaudio.ca